

**BT**

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	3.54	2.26
	39	2441	3.77	2.38
	78	2480	3.99	2.51
$\pi/4$ -QPSK(2Mbps)	0	2402	2.85	1.93
	39	2441	2.99	1.99
	78	2480	3.19	2.08
8DPSK(3Mbps)	0	2402	2.69	1.86
	39	2441	2.87	1.94
	78	2480	3.08	2.03

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	3.42	2.20
	19	2440	3.59	2.29
	39	2480	3.77	2.38

**5.2G WLAN**

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	36	5180	13.35	21.63
	40	5200	12.78	18.97
	48	5240	12.90	19.50
802.11 n-HT20	36	5180	14.18	26.18
	40	5200	13.54	22.59
	48	5240	13.82	24.10
802.11 n-HT40	38	5190	13.02	20.04
	46	5230	12.66	18.45
802.11ac-VHT20	36	5180	13.15	20.65
	40	5200	12.59	18.16
	48	5240	12.78	18.97
802.11ac-VHT40	38	5190	12.99	19.91
	46	5230	12.66	18.45
802.11ac-VHT80	42	5210	12.74	18.79

5.3G WLAN

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	52	5260	12.22	16.67
	60	5300	11.87	15.38
	64	5320	11.91	15.52
802.11 n-HT20	52	5260	13.10	20.42
	60	5300	12.72	18.71
	64	5320	12.85	19.28
802.11 n-HT40	54	5270	11.91	15.52
	62	5310	11.92	15.56
802.11ac-VHT20	52	5260	12.11	16.26
	60	5300	11.76	15.00
	64	5320	11.82	15.21
802.11ac-VHT40	54	5270	11.89	15.45
	62	5310	11.93	15.60
802.11ac-VHT80	58	5290	11.88	15.42

**5.6G WLAN**

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	100	5500	13.21	20.94
	116	5580	13.49	22.34
	140	5700	12.87	19.36
802.11 n-HT20	100	5500	14.12	25.82
	116	5580	14.40	27.54
	140	5700	13.72	23.55
802.11 n-HT40	102	5510	13.44	22.08
	110	5550	13.53	22.54
	134	5670	12.90	19.50
802.11ac-VHT20	100	5500	12.99	19.91
	116	5580	13.26	21.18
	140	5700	12.66	18.45
802.11ac-VHT40	102	5510	13.39	21.83
	110	5550	13.57	22.75
	134	5670	12.89	19.45
802.11ac-VHT80	106	5530	13.58	22.80
	122	5610	13.45	22.13

**5.8G WLAN**

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	149	5745	13.05	20.18
	157	5785	13.21	20.94
	165	5825	13.16	20.70
802.11 n-HT20	149	5745	13.91	24.60
	157	5785	14.04	25.35
	165	5825	13.94	24.77
802.11 n-HT40	151	5755	12.77	18.92
	159	5795	12.94	19.68
802.11ac-VHT20	149	5745	12.93	19.63
	157	5785	13.03	20.09
	165	5825	12.90	19.50
802.11ac-VHT40	151	5755	12.79	19.01
	159	5795	12.97	19.82
802.11ac-VHT80	155	5775	13.11	20.46

Module 2:**2.4G WLAN**

2.4G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Average Power (dBm)	ANT_B Average Power (dBm)	ANT_A+B Average Power (dBm)
802.11b	1	2412	18.46	17.14	N/A
	7	2437	18.32	18.02	N/A
	11	2462	19.14	18.69	N/A
802.11g	1	2412	17.80	18.72	N/A
	7	2437	19.41	19.08	N/A
	11	2462	20.04	19.65	N/A
802.11 n-HT20	1	2412	17.14	16.60	19.89
	7	2437	17.59	17.11	20.37
	11	2462	17.93	17.51	20.74
802.11 n-HT40	3	2422	16.35	15.99	19.18
	6	2437	16.43	16.06	19.26
	9	2452	16.65	16.42	19.55



5.2G WLAN

5.2G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Average Power (dBm)	ANT_B Average Power (dBm)	ANT_A+B Average Power (dBm)
802.11a	36	5180	11.99	12.81	N/A
	40	5200	12.31	13.10	N/A
	48	5240	12.54	12.91	N/A
802.11 n-HT20	36	5180	11.17	9.28	13.34
	40	5200	9.25	9.72	12.50
	48	5240	9.53	6.40	11.25
802.11 n-HT40	38	5190	9.73	9.83	12.79
	46	5230	9.56	6.11	11.18
802.11ac-VHT20	36	5180	10.47	8.44	12.58
	40	5200	8.19	8.63	11.43
	48	5240	8.42	5.44	10.19
802.11ac-VHT40	38	5190	9.46	9.66	12.57
	46	5230	9.49	6.02	11.10
802.11ac-VHT80	42	5210	7.65	11.33	12.88



5.2G WLAN

5.2G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Average Power (dBm)	ANT_B Average Power (dBm)	ANT_A+B Average Power (dBm)
802.11a	36	5180	11.99	12.81	N/A
	40	5200	12.31	13.10	N/A
	48	5240	12.54	12.91	N/A
802.11 n-HT20	36	5180	11.17	9.28	13.34
	40	5200	9.25	9.72	12.50
	48	5240	9.53	6.40	11.25
802.11 n-HT40	38	5190	9.73	9.83	12.79
	46	5230	9.56	6.11	11.18
802.11ac-VHT20	36	5180	10.47	8.44	12.58
	40	5200	8.19	8.63	11.43
	48	5240	8.42	5.44	10.19
802.11ac-VHT40	38	5190	9.46	9.66	12.57
	46	5230	9.49	6.02	11.10
802.11ac-VHT80	42	5210	7.65	11.33	12.88



5.3G WLAN

5.3G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Average Power (dBm)	ANT_B Average Power (dBm)	ANT_A+B Average Power (dBm)
802.11a	52	5260	12.88	13.73	N/A
	60	5300	12.95	13.65	N/A
	64	5320	12.98	13.58	N/A
802.11 n-HT20	52	5260	11.29	10.36	13.86
	60	5300	10.11	13.45	15.10
	64	5320	10.08	11.25	13.71
802.11 n-HT40	54	5270	9.28	11.36	13.45
	62	5310	8.76	11.66	13.46
802.11ac-VHT20	52	5260	8.73	9.35	12.06
	60	5300	8.86	12.03	13.74
	64	5320	8.95	9.95	12.49
802.11ac-VHT40	54	5270	9.09	11.36	13.38
	62	5310	9.29	11.97	13.84
802.11ac-VHT80	58	5290	8.10	11.76	13.31

**5.6G WLAN**

5.6G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Average Power (dBm)	ANT_B Average Power (dBm)	ANT_A+B Average Power (dBm)
802.11a	100	5500	13.40	13.09	N/A
	116	5580	13.69	13.90	N/A
	140	5700	12.58	13.10	N/A
802.11 n-HT20	100	5500	11.21	9.72	13.54
	116	5580	11.65	11.33	14.50
	140	5700	10.60	10.92	13.77
802.11 n-HT40	102	5510	8.24	8.43	11.35
	110	5550	8.25	12.08	13.58
	134	5670	7.63	12.33	13.60
802.11ac-VHT20	100	5500	9.91	8.75	12.38
	116	5580	10.51	9.83	13.19
	140	5700	9.21	9.79	12.52
802.11ac-VHT40	102	5510	7.78	8.35	11.08
	110	5550	7.96	11.93	13.39
	134	5670	7.24	12.12	13.34
802.11ac-VHT80	106	5530	8.19	11.79	13.36
	122	5610	8.16	5.86	10.17



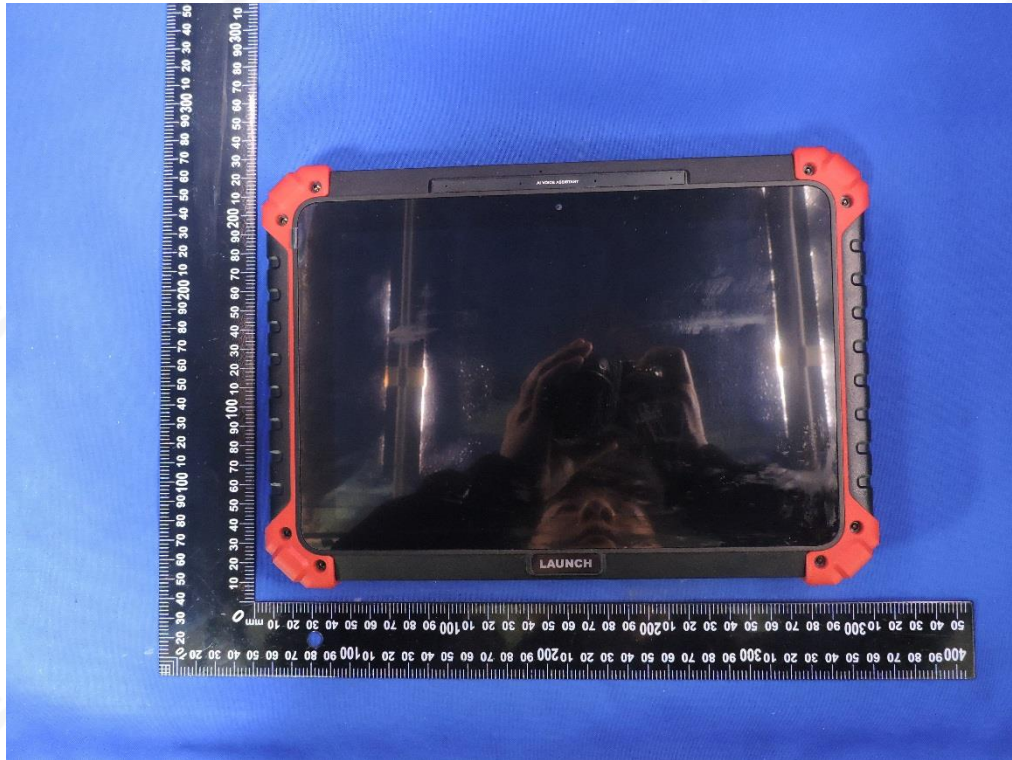
5.8G WLAN

5.8G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Average Power (dBm)	ANT_B Average Power (dBm)	ANT_A+B Average Power (dBm)
802.11a	149	5745	12.39	12.33	N/A
	157	5785	12.45	12.54	N/A
	165	5825	12.66	12.46	N/A
802.11 n-HT20	149	5745	11.12	13.06	15.21
	157	5785	11.32	13.30	15.43
	165	5825	11.49	13.47	15.60
802.11 n-HT40	151	5755	7.69	9.69	11.81
	159	5795	7.95	13.52	14.58
802.11ac-VHT20	149	5745	7.85	7.22	10.56
	157	5785	8.45	13.96	15.04
	165	5825	8.50	8.92	11.73
802.11ac-VHT40	151	5755	8.04	9.82	12.03
	159	5795	8.17	13.45	14.58
802.11ac-VHT80	155	5775	7.90	13.09	14.24

11. EUT and Test Setup Photo

11.1 EUT Photo

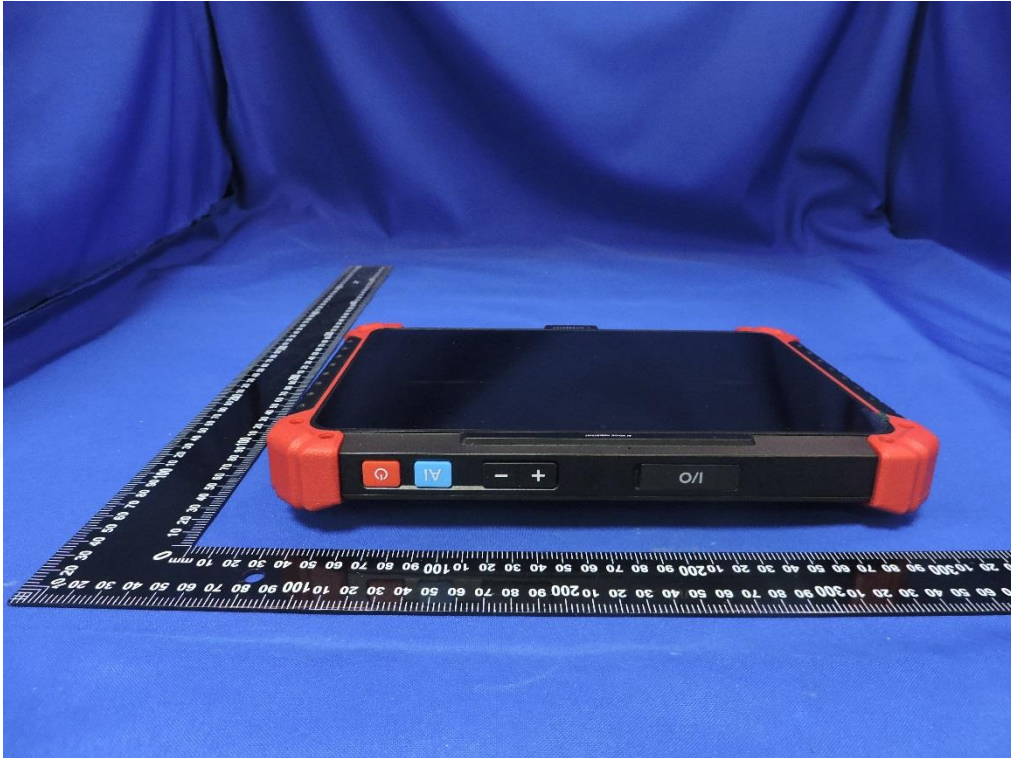
Front side



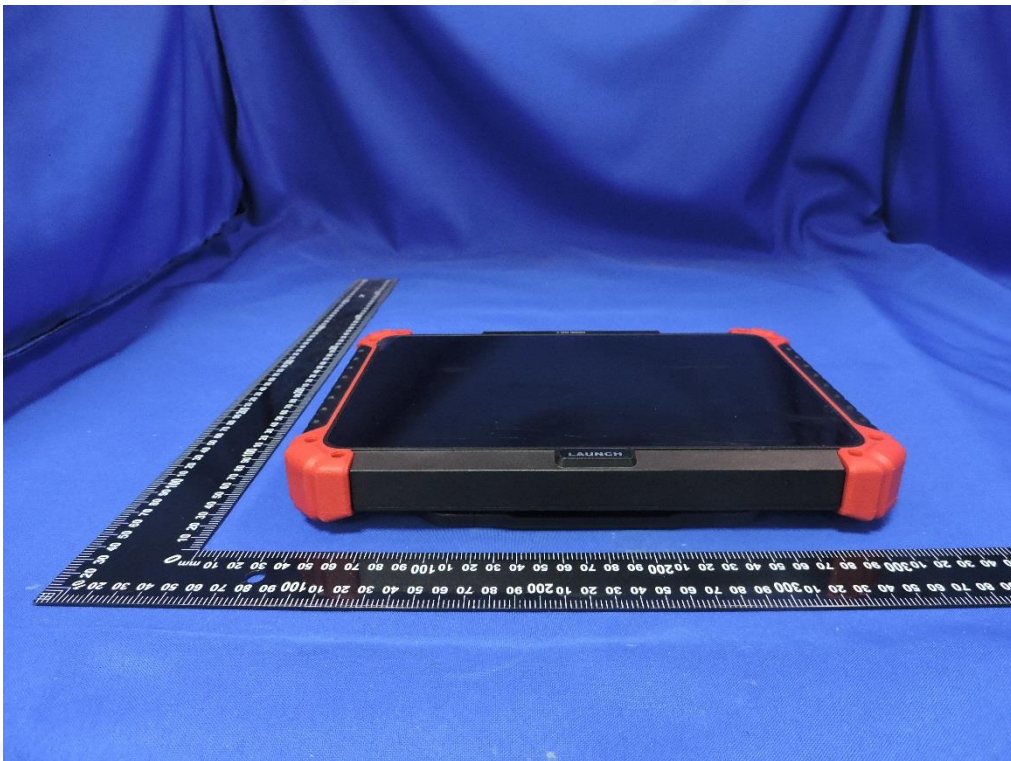
Back side



Top side



Bottom side



Left side



Right side

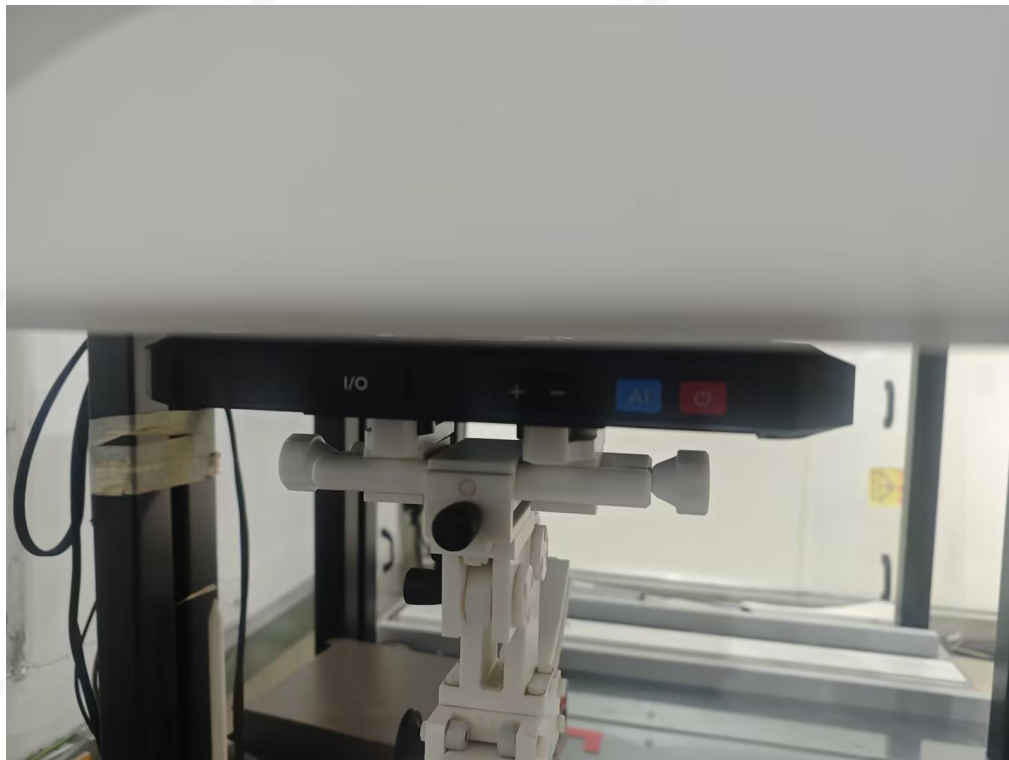


11.2 Setup Photo

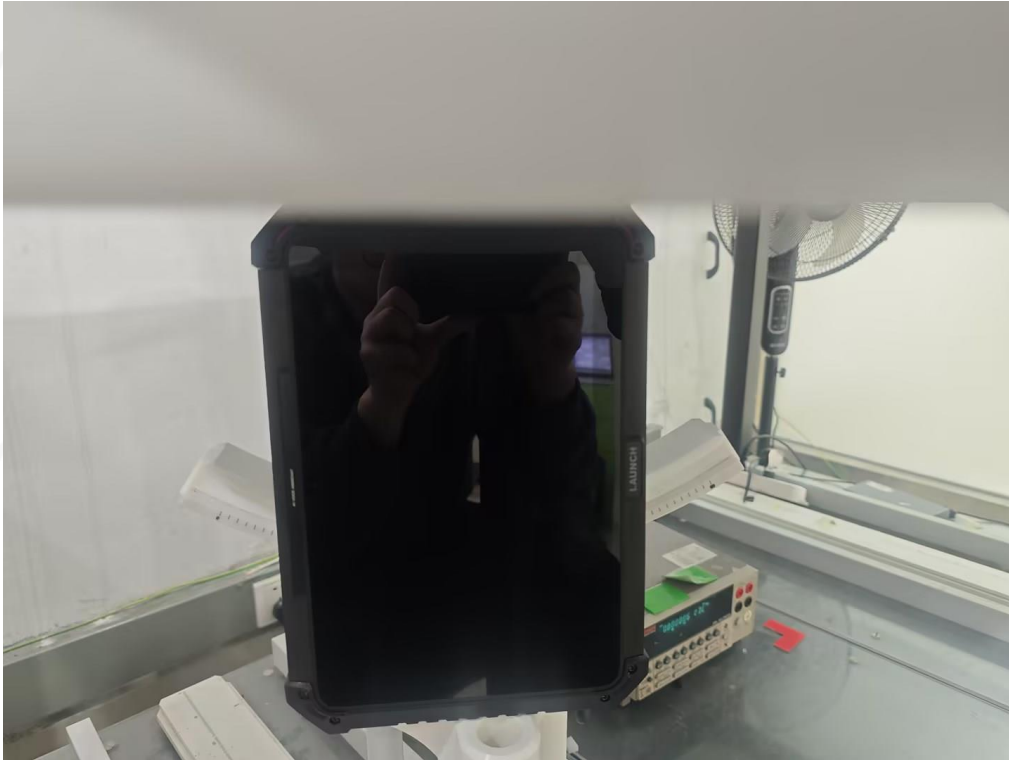
Front Side (separation distance is 0mm)



Back Side (separation distance is 0mm)



Left Side (separation distance is 0mm)

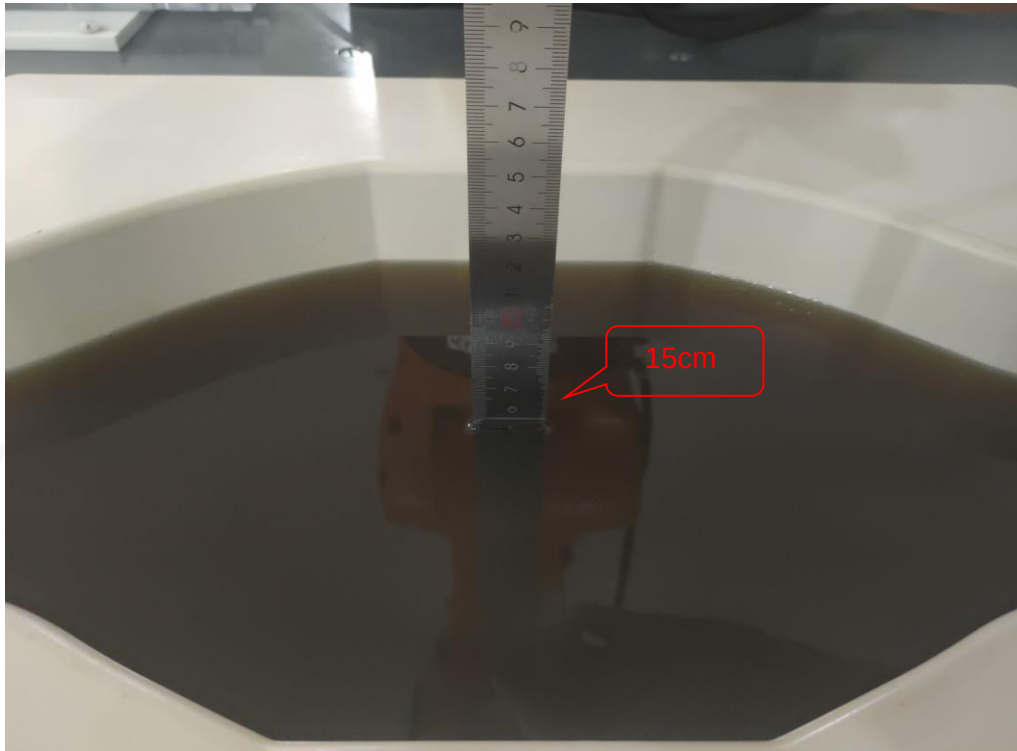


Bottom Side (separation distance is 0mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body SAR Module 1

Band	Mod.	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
2.4GHz WLAN	802.11b	Front Side	2462	0.045	-1.63	18.50	18.33	1.040	0.047	/
		Back Side	2462	0.125	-2.05	18.50	18.33	1.040	0.130	/
		Left Side	2462	0.034	-1.10	18.50	18.33	1.040	0.035	/
	802.11 n- HT20	Front Side	2412	0.065	3.54	20.50	20.47	1.007	0.065	/
		Back Side	2412	0.147	-0.08	20.50	20.47	1.007	0.148	1
		Left Side	2412	0.040	-0.48	20.50	20.47	1.007	0.040	/
5.2GHz WLAN	802.11 n- HT20	Front Side	5180	0.060	0.76	14.50	14.18	1.076	0.065	/
		Back Side	5180	0.139	-0.44	14.50	14.18	1.076	0.150	2
5.3GHz WLAN	802.11 n- HT20	Front Side	5260	0.044	3.80	13.50	13.10	1.096	0.048	/
		Back Side	5260	0.145	-1.24	13.50	13.10	1.096	0.159	3
5.6GHz WLAN	802.11 n- HT20	Front Side	5580	0.100	-1.45	14.50	14.40	1.023	0.102	/
		Back Side	5580	0.164	-1.32	14.50	14.40	1.023	0.168	4
5.8GHz WLAN	802.11 n- HT20	Front Side	5785	0.070	1.06	14.50	14.04	1.112	0.078	/
		Back Side	5785	0.156	3.46	14.50	14.04	1.112	0.173	5



Module 2

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
2.4G WLAN_ANT_A	802.11b	Front Side	2462	0.120	3.27	20.50	20.40	1.023	0.123	/
		Back Side	2462	0.245	0.54	20.50	20.40	1.023	0.251	6
		Left Side	2462	0.083	1.80	20.50	20.40	1.023	0.085	/
2.4G WLAN_ANT_B	802.11b	Front Side	2462	0.078	-3.35	20.50	20.40	1.023	0.080	/
		Back Side	2462	0.177	-0.60	20.50	20.40	1.023	0.181	7
		Bottom Side	2462	0.065	-2.43	20.50	20.40	1.023	0.067	/
2.4G WLAN_MIMO_ANT_A	802.11n- HT20	Front Side	2462	0.122	1.07	21.00	20.74	1.062	0.130	/
		Back Side	2462	0.249	-0.58	21.00	20.74	1.062	0.264	8
		Left Side	2462	0.080	0.37	21.00	20.74	1.062	0.085	/
2.4G WLAN_MIMO_ANT_B	802.11n- HT20	Front Side	2462	0.064	3.88	21.00	20.74	1.062	0.068	/
		Back Side	2462	0.163	3.05	21.00	20.74	1.062	0.173	9
		Left Side	2462	0.046	-2.78	21.00	20.74	1.062	0.049	/
		Bottom Side	2462	0.021	-2.35	21.00	20.74	1.062	0.022	/
5.2G WLAN_ANT_A	802.11a	Front Side	5240	0.278	3.43	13.00	12.54	1.112	0.309	/
		Back Side	5180	0.524	0.54	13.00	11.99	1.262	0.661	/
		Back Side	5200	0.556	1.22	13.00	12.31	1.172	0.652	/
		Back Side	5240	0.611	-2.61	13.00	12.54	1.112	0.679	10
		Left Side	5240	0.157	1.96	13.00	12.54	1.112	0.175	/
5.2G WLAN_ANT_B	802.11a	Front Side	5200	0.169	-0.96	13.50	13.10	1.096	0.185	/
		Back Side	5200	0.454	-1.04	13.50	13.10	1.096	0.498	11
		Bottom Side	5200	0.105	1.93	13.50	13.10	1.096	0.115	/
5.2G WLAN_MIMO_ANT_A	802.11n- HT20	Front Side	5180	0.155	1.89	13.50	13.34	1.038	0.161	/
		Back Side	5180	0.384	-1.74	13.50	13.34	1.038	0.398	12
		Left Side	5180	0.096	2.49	13.50	13.34	1.038	0.100	/
5.2G WLAN_MIMO_ANT_B	802.11n- HT20	Front Side	5180	0.141	-1.70	13.50	13.34	1.038	0.146	/
		Back Side	5180	0.379	-0.87	13.50	13.34	1.038	0.393	13
		Bottom Side	5180	0.074	-2.98	13.50	13.34	1.038	0.077	/
5.3G WLAN_ANT_A	802.11a	Front Side	5320	0.123	3.88	13.00	12.98	1.005	0.124	/
		Back Side	5320	0.377	-1.28	13.00	12.98	1.005	0.379	14
		Left Side	5320	0.076	0.42	13.00	12.98	1.005	0.076	/
5.3G WLAN_ANT_B	802.11a	Front Side	5260	0.175	0.16	14.00	13.73	1.064	0.186	/
		Back Side	5260	0.482	1.27	14.00	13.73	1.064	0.513	15
		Bottom Side	5260	0.091	-3.35	14.00	13.73	1.064	0.097	/



5.3G WLAN_MIM O_ANT_A	802.11 n- HT20	Front Side	5300	0.206	2.81	15.50	15.10	1.096	0.226	/
		Back Side	5300	0.493	0.99	15.50	15.10	1.096	0.541	16
		Left Side	5300	0.114	-1.14	15.50	15.10	1.096	0.125	/
5.3G WLAN_MIM O_ANT_B	802.11 n- HT20	Front Side	5300	0.148	-3.48	15.50	15.10	1.096	0.162	/
		Back Side	5300	0.376	2.98	15.50	15.10	1.096	0.412	17
		Bottom Side	5300	0.065	2.72	15.50	15.10	1.096	0.071	/
5.6G WLAN_ANT _A	802.11a	Front Side	5580	0.224	-1.00	14.00	13.69	1.074	0.241	/
		Back Side	5580	0.543	-1.00	14.00	13.69	1.074	0.583	18
		Left Side	5580	0.125	3.77	14.00	13.69	1.074	0.134	/
5.6G WLAN_ANT _B	802.11a	Front Side	5580	0.175	2.34	14.00	13.90	1.023	0.179	/
		Back Side	5580	0.484	2.72	14.00	13.90	1.023	0.495	19
		Bottom Side	5580	0.068	0.36	14.00	13.90	1.023	0.070	/
5.6G WLAN_MIM O_ANT_A	802.11 n- HT20	Front Side	5580	0.210	0.99	15.00	14.50	1.122	0.236	/
		Back Side	5580	0.455	-2.96	15.00	14.50	1.122	0.511	20
		Left Side	5580	0.089	3.31	15.00	14.50	1.122	0.100	/
5.6G WLAN_MIM O_ANT_B	802.11 n- HT20	Front Side	5580	0.153	0.98	15.00	14.50	1.122	0.172	/
		Back Side	5580	0.467	3.06	15.00	14.50	1.122	0.524	21
		Bottom Side	5580	0.068	3.98	15.00	14.50	1.122	0.076	/
5.8G WLAN_ANT _A	802.11a	Front Side	5825	0.166	-2.27	13.00	12.66	1.081	0.180	/
		Back Side	5825	0.456	-3.94	13.00	12.66	1.081	0.493	22
		Left Side	5825	0.075	-2.12	13.00	12.66	1.081	0.081	/
5.8G WLAN_ANT _B	802.11ac -VHT20	Front Side	5785	0.236	-3.36	14.00	13.96	1.009	0.238	/
		Back Side	5785	0.542	1.90	14.00	13.96	1.009	0.547	23
		Bottom Side	5785	0.099	-1.74	14.00	13.96	1.009	0.100	/
5.8G WLAN_MIM O_ANT_A	802.11 n- HT20	Front Side	5825	0.079	3.64	16.00	15.60	1.096	0.087	/
		Back Side	5825	0.249	-0.99	16.00	15.60	1.096	0.273	24
		Left Side	5825	0.044	-3.28	16.00	15.60	1.096	0.048	/
5.8G WLAN_MIM O_ANT_B	802.11 n- HT20	Front Side	5825	0.071	0.98	16.00	15.60	1.096	0.078	/
		Back Side	5825	0.213	-0.33	16.00	15.60	1.096	0.234	25
		Bottom Side	5825	0.030	-2.39	16.00	15.60	1.096	0.033	/



Band	ANT	Max SAR	2.4G WLAN_ANT_A+B
		(W/Kg)	
2.4G WLAN_ANT_A+B	ANT-A	0.264	0.437
	ANT-B	0.173	
Band	ANT	Max SAR	5.2&5.3G WLAN_ANT_A+B
		(W/Kg)	
5.2G WLAN_ANT_A+B	ANT-A	0.398	0.791
	ANT-B	0.393	
Band	ANT	Max SAR	5.6G WLAN_ANT_A+B
		(W/Kg)	
5.3G WLAN_ANT_A+B	ANT-A	0.541	0.953
	ANT-B	0.412	
Band	ANT	Max SAR	5.8G WLAN_ANT_A+B
		(W/Kg)	
5.6G WLAN_ANT_A+B	ANT-A	0.511	1.035
	ANT-B	0.524	
Band	ANT	Max SAR	5.6G WLAN_ANT_A+B
		(W/Kg)	
5.8G WLAN_ANT_A+B	ANT-A	0.273	0.507
	ANT-B	0.234	

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

**12.2 Simultaneous Multi-band Transmission Evaluation**

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. Module 1 + Module 2

NOTE:

- For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
- If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances ≤ 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Dis.	Frequency (GHz)	Stand alone SAR(1g) [W/kg]
		dBm	mW			
BT	Body	4	2.512	5	2.48	0.105

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
Module 1 2.4G WLAN +Module 2 2.4G WLAN	Body	Module 1 2.4G WLAN	0.148	0.399
		Module 2 2.4G WLAN ANT_A	0.251	
	Body	Module 1 2.4G WLAN	0.148	0.329
		Module 2 2.4G WLAN ANT_B	0.181	
	Body	Module 1 2.4G WLAN	0.148	0.585
		Module 2 2.4G WLAN MIMO	0.437	
Module 1 5G WLAN +Module 2 5G WLAN	Body	Module 1 5G WLAN	0.173	0.852
		Module 2 5G WLAN ANT_A	0.679	
	Body	Module 1 5G WLAN	0.173	0.686
		Module 2 5G WLAN ANT_B	0.513	
	Body	Module 1 5G WLAN	0.173	1.226
		Module 2 5G WLAN MIMO	1.053	



Module 1 BT +Module 2 2.4G WLAN	Body	Module 1 BT	0.105	0.356
		Module 2 2.4G WLAN ANT_A	0.251	
	Body	Module 1 BT	0.105	0.286
		Module 2 2.4G WLAN ANT_B	0.181	
	Body	Module 1 BT	0.105	0.542
		Module 2 2.4G WLAN MIMO	0.437	
Module 1 BT+Module 2 5G WLAN	Body	Module 1 BT	0.105	0.784
		Module 2 5G WLAN ANT_A	0.679	
	Body	Module 1 BT	0.105	0.618
		Module 2 5G WLAN ANT_B	0.513	
	Body	Module 1 BT	0.105	1.158
		Module 2 5G WLAN MIMO	1.053	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPGO352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2025-02-22	2026-02-21
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2025-02-22	2026-02-21
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2025-02-22	2026-02-21
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16



Appendix A. System Validation Plots

System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

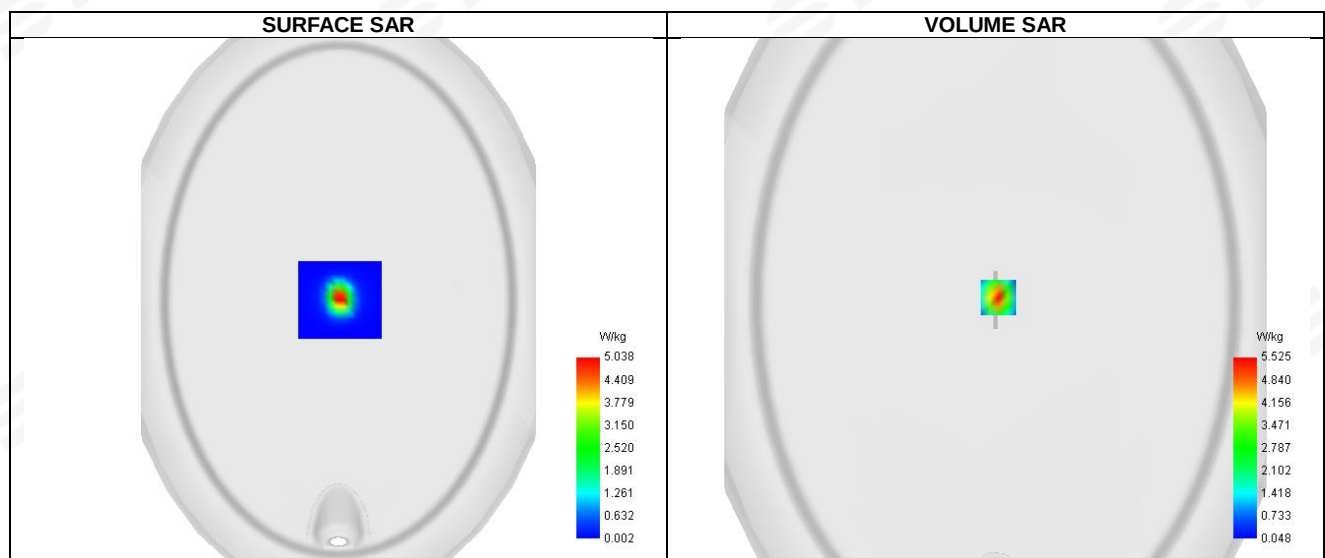
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2025-12-05

Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.76
Conductivity (S/m)	1.82
Probe	SN 08/21 EPGO352
ConvF	1.82
Crest factor:	1:1



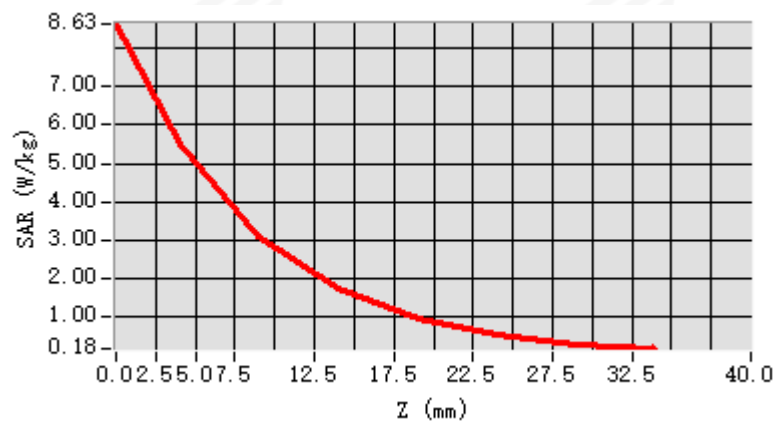
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 8.61 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.383
SAR 1g (W/Kg)	5.459
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.753153

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.629	5.525	3.080	1.725	0.978	0.550	0.309

**F. 3D Image**