



FCC 47 CFR MPE REPORT

Shenzhen Poling Intelligent Digital Equipment CO., LTD

32 inch interactive table, 43 inch interactive table

Model Number: MV32A56Y01, CC43A58P01

Additional Model: DT32A56Y01, CH32A56B01, CH32A56P01, ZT32W10P01, ET32A56P01, MV32A56Y03, DT32A56Y03, CH32W56B01, CH32W56P01, MV32W56Y01, DT32W56Y01, ET32W56P01, MV32W56Y03, DT32W56Y03, CC43W90B03, CC43W90B04, CC43A90B03, CS43A58P03, CS43A58P01, ET43A56P01, CH43A58P01, CC43W58P01, PL43WW901Y1, PL43WW902Y1, PL43WG621N1, PL43SW901Y1, PL43SW902Y1, PL43SB621N1, PL43AW902Y1, PL43AW901Y1, PL43WW581Y1, PL43WW58Y2, PL43WG621N1, PL43SW581Y1, PL43SW582Y1, PL43SB621N1, PL43AW582Y1, PL43AW901Y1

FCC ID: 2BUDM-MV32A56Y01

Applicant:	Shenzhen Poling Intelligent Digital Equipment CO., LTD
Address:	Unit 1601, Building B, Jieshun Technology Center, NO.5 GuanSheng
	2nd Road, Longhua District, Shenzhen, China
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

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Maximum Permissible Exposure

1. Applicable Standards

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

1.1. Limits for Maximum Permissible Exposure (MPE)

(a) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-10000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-10000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

1.2. MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

2. Conducted Power Result

Mode	Frequency (MHz)	Antenna	Peak output power (dBm)	Peak output power (mW)
GFSK	2402	ant 1	3.19	2.084
	2441	ant 1	4.1	2.570
	2480	ant 1	4.35	2.723
$\pi/4$ -DQPSK	2402	ant 1	5.17	3.289
	2441	ant 1	6.09	4.064
	2480	ant 1	6.21	4.178
8-DPSK	2402	ant 1	5.62	3.648
	2441	ant 1	6.6	4.571
	2480	ant 1	6.72	4.699
BLE 1M	2402	ant 1	5.2	3.311
	2440	ant 1	5.74	3.750
	2480	ant 1	6.29	4.256
BLE 2M	2402	ant 1	4.95	3.126
	2440	ant 1	5.96	3.945
	2480	ant 1	6.23	4.198
IEEE 802.11b	2412	ant 1	17.34	54.200
		ant 2	16.91	49.091
	2437	ant 1	16.36	43.251
		ant 2	16.55	45.186
	2462	ant 1	17.78	59.979
		ant 2	17.25	53.088
IEEE 802.11g	2412	ant 1	17.42	55.208
		ant 2	17.09	51.168
	2437	ant 1	17.19	52.360
		ant 2	17.1	51.286
	2462	ant 1	17.67	58.479
		ant 2	17.17	52.119
IEEE 802.11n HT20	2412	ant 1	15.68	36.983
		ant 2	13.58	22.803
	2437	ant 1	15.72	37.325
		ant 2	13.27	21.232
	2462	ant 1	16.12	40.926
		ant 2	13.47	22.233

IEEE 802.11n HT40	2422	ant 1	15.14	32.659
		ant 2	12.97	19.815
	2437	ant 1	14.99	31.550
		ant 2	12.76	18.880
	2452	ant 1	15.15	32.734
		ant 2	12.69	18.578
IEEE 802.11a	5180	ant 1	17.1	51.286
		ant 2	17.04	50.582
	5200	ant 1	17.83	60.674
		ant 2	17.75	59.566
	5240	ant 1	16.9	48.978
		ant 2	17.44	55.463
	5745	ant 1	15.92	39.084
		ant 2	16.14	41.115
	5785	ant 1	16.39	43.551
		ant 2	16.4	43.652
	5825	ant 1	15.8	38.019
		ant 2	16.1	40.738
IEEE 802.11n20	5180	ant 1	12.91	19.543
		ant 2	13.64	23.121
	5200	ant 1	13.68	23.335
		ant 2	14.14	25.942
	5240	ant 1	13.72	23.550
		ant 2	14.53	28.379
	5745	ant 1	14.58	28.708
		ant 2	14.63	29.040
	5785	ant 1	14.08	25.586
		ant 2	13.68	23.335
	5825	ant 1	13.43	22.029
		ant 2	12.12	16.293
IEEE 802.11ac VHT20	5180	ant 1	15.2	33.113
		ant 2	15.75	37.584
	5200	ant 1	15.7	37.154
		ant 2	16.18	41.495
	5240	ant 1	16	39.811
		ant 2	16.74	47.206
	5745	ant 1	15.56	35.975
		ant 2	15.75	37.584

	5785	ant 1	15.07	32.137
		ant 2	14.57	28.642
	5825	ant 1	14.41	27.606
		ant 2	13.25	21.135
IEEE 802.11n HT40	5190	ant 1	15.54	35.810
		ant 2	16.14	41.115
	5230	ant 1	14.72	29.648
		ant 2	15.45	35.075
	5755	ant 1	14.57	28.642
		ant 2	14.39	27.479
	5795	ant 1	14.92	31.046
		ant 2	15.13	32.584
IEEE 802.11ac VHT40	5190	ant 1	15.4	34.674
		ant 2	16.04	40.179
	5230	ant 1	16.1	40.738
		ant 2	16.59	45.604
	5755	ant 1	15.78	37.844
		ant 2	15.88	38.726
	5795	ant 1	14.81	30.269
		ant 2	14.45	27.861
IEEE 802.11ac VHT80	5210	ant 1	15.44	34.995
		ant 2	16.05	40.272
	5775	ant 1	14.61	28.907
		ant 2	14.63	29.040

3. Calculated Result and Limit

The Worst Mode	Ant.	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm ²)	Limited of Power Density (S) (mW /cm ²)	Test Result
					(dBi)	(Linear)			
2.4G Band									
GFSK	ant 1	4.35	4±1	5	3.43	2.203	0.0014	1	Complies
π/4-DQPSK	ant 1	6.21	6±1	7	3.43	2.203	0.0022	1	Complies
8-DPSK	ant 1	6.72	6±1	7	3.43	2.203	0.0022	1	Complies
BLE 1M	ant 1	6.29	6±1	7	3.43	2.203	0.0022	1	Complies
BLE 2M	ant 1	6.23	6±1	7	3.43	2.203	0.0022	1	Complies
IEEE 802.11b	ant 1	17.78	17±1	18	3.43	2.203	0.0277	1	Complies
	ant 2	17.25	17±1	18	3.43	2.203	0.0277	1	Complies
IEEE 802.11g	ant 1	17.67	17±1	18	3.43	2.203	0.0277	1	Complies
	ant 2	17.17	17±1	18	3.43	2.203	0.0277	1	Complies
IEEE 802.11n	ant 1	16.12	16±1	17	3.43	2.203	0.0220	1	Complies
HT20	ant 2	13.58	13±1	14	3.43	2.203	0.0110	1	Complies
IEEE 802.11n	ant 1	15.15	15±1	16	3.43	2.203	0.0174	1	Complies
HT40	ant 2	12.97	12±1	13	3.43	2.203	0.0087	1	Complies
5G Band									
IEEE 802.11a	ant 1	17.83	17±1	18	3.59	2.286	0.0287	1	Complies
	ant 2	17.75	17±1	18	3.59	2.286	0.0287	1	Complies
IEEE 802.11n	ant 1	14.58	14±1	15	3.59	2.286	0.0144	1	Complies
HT20	ant 2	14.63	14±1	15	3.59	2.286	0.0144	1	Complies
IEEE 802.11ac VHT20	ant 1	16	16±1	17	3.59	2.286	0.0228	1	Complies
	ant 2	16.74	16±1	17	3.59	2.286	0.0228	1	Complies
IEEE 802.11n HT40	ant 1	15.54	15±1	16	3.59	2.286	0.0181	1	Complies
	ant 2	16.14	16±1	17	3.59	2.286	0.0228	1	Complies
IEEE 802.11ac VHT40	ant 1	16.1	16±1	17	3.59	2.286	0.0228	1	Complies
	ant 2	16.59	16±1	17	3.59	2.286	0.0228	1	Complies
IEEE 802.11ac VHT80	ant 1	15.44	15±1	16	3.59	2.286	0.0181	1	Complies
	ant 2	16.05	16±1	17	3.59	2.286	0.0228	1	Complies

MIMIO

Mode	Power Density (S) (mW /cm ²) Antenna 0	Power Density (S) (mW /cm ²) Antenna 1	Power Density (S) (mW /cm ²) Total	Limited of Power Density (S) (mW /cm ²)	Test Result
2.4G Band					
IEEE 802.11n HT20	0.0220	0.0110	0.0330	1	Complies
IEEE 802.11n HT40	0.0174	0.0087	0.0262	1	Complies
5G Band					
IEEE 802.11n HT20	0.0144	0.0144	0.0288	1	Complies
IEEE 802.11ac VHT20	0.0228	0.0228	0.0456	1	Complies
IEEE 802.11n HT40	0.0181	0.0228	0.0409	1	Complies
IEEE 802.11ac VHT40	0.0228	0.0228	0.0456	1	Complies
IEEE 802.11ac VHT80	0.0181	0.0228	0.0409	1	Complies

Antenna 0+1

MAX Power Density (S) (mW/cm ²) Bluetooth	MAX Power Density (S) (mW/cm ²) WiFi	Total Ratio	Limit Ratio	Test Result
0.0022	0.0456	0.0478	1	Complies

Note: 2.4 and 5GHz bands are share an antenna, can't both the 2.4 and 5 GHz bands operate simultaneously.

End of Test Report