

Validation test plan

Product information:

Original Product Name: Portable Data Processing Terminal

Original FCC ID: 2AH25T5F2AN IC: 22621-T5F2AN

Variant Product Name: Wireless data POS System

Variant FCC ID: 2AH25T5F2AL IC: 22621-T5F2AL

Evaluation test plan:

According to the product change description, FCC ID will be changed. The front camera, NFC and scanner are removed. LCD, CPU are different

. For the removed LTE Band12/13/17/25 66/71, the chip of the corresponding module remained unchanged. these frequency bands were eliminated by reducing the corresponding components. Except this, the others are all the same, and apart from the changed parts others do not affect wireless performance.

Description		CP U	Frequency Band	FCC ID	IC	HVIN	Front Camera	eS IM	N F C	scan ner	LCD
Original (main test prototype)	Configuration 1	6225	2G:B2/3/5/8 3G:B1/2/4/5/6/8/19 4G:B1/2/3/4/5/7/8/12 /13/17/18/19/20/25/2 6/28/30/66/71/34/38/ 39/40/41	2AH2 5T5F 2AN	2262 1- T5F2 AN	T5F2 AN	Y	Y	Y	Y	Original (main test prototype)
variant	Configuration 5 P0612 0003	4325	2G:B2/3/5/8 3G:B1/2/4/5/6/8/19 4G:B1/2/3/4/5/7/8/18 /19/20/26/28/34/38/3 9/40/41	2AH2 5T5F 2AL	2262 1- T5F2 AL	T5F2 AL	N	N	N	N	variant

The evaluation tests are as follows:

1. SAR for frequency below 6GHz:

Rule Part	Band	Body SAR 1g	Limbs SAR 10g
§2.1093	GSM 850	Referencing the original test data (EFTA25070074) plus spot-check on the worst-case of all bands	Referencing the original test data (EFTA25070074) plus spot-check on the worst-case of all bands
	GSM 1900		
	WCDMA Band II		
	WCDMA Band IV		
	WCDMA Band V		
	LTE FDD 2		
	LTE FDD 4		

	LTE FDD 5		
	LTE FDD 7		
	LTE FDD 26		
	LTE TDD 38		
	LTE TDD 41		
	Wi-Fi (2.4GHz)		
	Wi-Fi (5GHz)		
	Wi-Fi (6GHz)		
	Bluetooth		

2. Class Code: JBP

Rule Part	Test item	Data Referencing	Comments
15.107	AC Conducted Emissions	N	Full re-test
15.109	Radiated Emissions	N	Full re-test

3. Class Code: DSS

Rule Part	Test item	Data Referencing	Comments
15.247	Maximum Peak Output Power	Y	Plus spot-check on the worst-case
15.247	20 dB Bandwidth	Y	Plus spot-check on the worst-case
2.1049	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case
15.247, 15.209, 15.205	Band Edges Compliance	Y	Plus spot-check on the worst-case
15.247	Time Of Occupancy (Dwell Time)	Y	Plus spot-check on the worst-case
15.247	Carrier Frequency Separation	Y	Plus spot-check on the worst-case
15.247	Number Of Hopping Channels	Y	Plus spot-check on the worst-case
15.247	Transmitter Spurious Emission-Conducted	Y	Plus spot-check on the worst-case
15.247, 15.209, 15.205	Transmitter Spurious Emission-Radiated	Y	Plus spot-check on the worst-case
15.207	AC Conducted Emissions	Y	Plus spot-check on the worst-case

15.247, 15.203	Antenna requirement	N/A	Same antenna to original
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4. Class Code: DTS

Rule Part	Test item	Data Referencing	Comments
15.247	Maximum Output Power	Y	Plus spot-check on the worst-case
15.247	Peak Power Spectral Density	Y	Plus spot-check on the worst-case
15.247	6 dB Bandwidth	Y	Plus spot-check on the worst-case
2.1049	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case
15.247, 15.209, 15.205	Band Edges Compliance	Y	Plus spot-check on the worst-case
15.247	Transmitter Spurious Emission-Conducted	Y	Plus spot-check on the worst-case
15.247, 15.209, 15.205	Transmitter Spurious Emission-Radiated	Y	Plus spot-check on the worst-case
15.207	AC Conducted Emissions	Y	Plus spot-check on the worst-case
15.247, 15.203	Antenna requirement	N/A	Same antenna to original

5. Class Code: NII

Rule Part	Test item	Data Referencing	Comments
15.407	Maximum Output Power	Y	Plus spot-check on the worst-case
KDB 789033 D02	Duty Cycle	Y	Plus spot-check on the worst-case
15.407	Power Spectral Density	Y	Plus spot-check on the worst-case

2.1049	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case
15.407	26 dB Emission Bandwidth	Y	Plus spot-check on the worst-case
15.407	6 dB Bandwidth	Y	Plus spot-check on the worst-case
15.407	Band edge compliance	Y	Plus spot-check on the worst-case
15.407, 15.209, 15.205	Transmitter spurious emissions radiated	Y	Plus spot-check on the worst-case
15.407	Frequency Stability	Y	Plus spot-check on the worst-case
15.407	Transmit Power Control (TPC)	N/A	e.i.r.p. less than 500 mW
15.407	Dynamic Frequency Selection (DFS)	Y	Plus spot-check on the worst-case
15.207	AC Conducted Emissions	Y	Plus spot-check on the worst-case
15.407, 15.203	Antenna requirement	N/A	Same antenna to original

6. Class Code: 6XD

Rule Part	Test item	Data Referencing	Comments
15.407	Maximum Output Power (EIRP)	Y	Plus spot-check on the worst-case
KDB 789033 D02	Duty Cycle	Y	Plus spot-check on the worst-case
15.407	Power Spectral Density (EIRP)	Y	Plus spot-check on the worst-case

2.1049	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case
15.407	26 dB Emission Bandwidth	Y	Plus spot-check on the worst-case
15.407	In-Band Emissions (Mask)	Y	Plus spot-check on the worst-case
15.407, 15.209, 15.205	Transmitter spurious emissions radiated	Y	Plus spot-check on the worst-case
15.407	Frequency Stability	Y	Plus spot-check on the worst-case
15.407	Contention Based Protocol	Y	Plus spot-check on the worst-case
15.207	AC Conducted Emissions	Y	Plus spot-check on the worst-case
15.407, 15.203	Antenna requirement	N/A	Same antenna to original

7. Class Code: PCT

Rule Part	Test item	Data Referencing	Comments
22H, 24E, 27, 90S	Conducted RF OUTPUT POWER	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	ERP and EIRP	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Peak-to-average power ratio	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case of all bands

22H, 24E, 27, 90S	26 dB Emission Bandwidth	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Conducted spurious emissions	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Band Edge	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Radiated Spurious Emission	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Frequency Stability	Y	Plus spot-check on the worst-case of all bands

Please review, TCB whether to accept this test scheme, we will complete the final test according to the guide.

Thanks

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