

RF Exposure Evaluation

FCC ID: 2A3XN-SCORE7C

1. Client Information

Applicant	:	Keefe Group
Address	:	10880 Linpage Pl, St. Louis, MO 63132, United States
Manufacturer	:	Shenzhen Ployer Electronics Co., Ltd.
Address	:	6~7F, Building 8, Rundongsheng Industrial Area, Longzhu Community, Xixiang Street, Bao'an District, Shenzhen, 518000, China.

2. General Description of EUT

EUT Name	:	Tablet PC	
Model(s) No.	:	SCORE 710, P701B	
Model Different	:	All PCB boards and circuit diagrams are the same, the only difference is that names.	
Product Description	:	Operation Frequency:	Bluetooth 4.2(BT):2402MHz~2480MHz Bluetooth 4.2(BLE): 2402MHz~2480MHz 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz U-NII-1: 5180MHz~5240MHz U-NII-3: 5745MHz~5825MHz
	:	Number of Channel:	Bluetooth 4.2(BLE): 79 channels Bluetooth 4.2(BLE): 40 channels 802.11b/g/n(HT20):11 channels 802.11n(HT40): 7 channels U-NII-1: 7 channels U-NII-3: 8 channels
	:	Antenna Gain:	1.55 dBi PIFA Antenna
	:	Modulation Type:	GFSK $\pi/4$ -DQPSK 8-DPSK 802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM,64 QAM) 802.11a: OFDM (QPSK, BPSK, 16QAM) 802.11n: OFDM (OPSK, BPSK, 16OAM,

		64QAM) 802.11ac: OFDM (QPSK, BPSK, 16QAM, 64QAM, 256QAM)
Power Rating	:	DC 3.7V by battery
Software Version	:	Android10.0
Hardware Version	:	V1.0
Connecting I/O Port(S)	:	Please refer to the User's Manual
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.		

Note: More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})] * [\sqrt{f_{\text{GHz}}]} \leq 3.0 \text{ for 1-g SAR}$$

- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})] * [\sqrt{f_{\text{GHz}}]} \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Test separation: 5mm						
BT Mode (1Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	6.751	6 ± 1	7	5.012	1.5535	3.0
2.441	6.933	6 ± 1	7	5.012	1.5661	3.0
2.480	6.984	6 ± 1	7	5.012	1.5785	3.0
BT Mode (2Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	5.96	6 ± 1	7	5.012	1.5535	3.0
2.441	6.155	6 ± 1	7	5.012	1.5661	3.0
2.480	6.202	6 ± 1	7	5.012	1.5785	3.0
BT Mode (3Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	5.946	6 ± 1	7	5.012	1.5535	3.0
2.441	6.135	6 ± 1	7	5.012	1.5661	3.0
2.480	6.214	6 ± 1	7	5.012	1.5785	3.0
BLE Mode (1Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-2.107	-1.5 ± 1	-0.5	0.8913	0.2763	3.0
2.442	-1.895	-1.5 ± 1	-0.5	0.8913	0.2785	3.0
2.480	-1.838	-1.5 ± 1	-0.5	0.8913	0.2807	3.0
BLE Mode (2Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-1.952	-1.5 ± 1	-0.5	0.8913	0.2763	3.0
2.442	-1.945	-1.5 ± 1	-0.5	0.8913	0.2785	3.0
2.480	-1.91	-1.5 ± 1	-0.5	0.8913	0.2807	3.0
802.11b						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	7.45	7 ± 1	8	6.310	1.960	3.0
2.437	7.376	7 ± 1	8	6.310	1.970	3.0
2.462	7.346	7 ± 1	8	6.310	1.980	3.0

802.11g						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	7.697	7±1	8	6.310	1.960	3.0
2.437	7.653	7±1	8	6.310	1.970	3.0
2.462	7.703	7±1	8	6.310	1.980	3.0
802.11n(HT20)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	7.579	7±1	8	6.310	1.960	3.0
2.437	7.588	7±1	8	6.310	1.970	3.0
2.462	7.88	7±1	8	6.310	1.980	3.0
802.11n(HT40)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	7.049	7±1	8	6.310	1.964	3.0
2.437	6.924	7±1	8	6.310	1.970	3.0
2.452	7.182	7±1	8	6.310	1.976	3.0
802.11a (U-NII-1)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.180	7.15	6.5±1	7.5	5.6234	2.5597	3.0
5.200	7.14	6.5±1	7.5	5.6234	2.5647	3.0
5.240	7.16	6.5±1	7.5	5.6234	2.5745	3.0
802.11n20 (U-NII-1)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.180	7.08	6.5±1	7.5	5.6234	2.5597	3.0
5.200	7.23	6.5±1	7.5	5.6234	2.5647	3.0
5.240	7.13	6.5±1	7.5	5.6234	2.5745	3.0
802.11n40 (U-NII-1)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.190	6.95	6.5±1	7.5	5.6234	2.5622	3.0
5.230	7.14	6.5±1	7.5	5.6234	2.5721	3.0
802.11ac20 (U-NII-1)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.180	6.88	6.5±1	7.5	5.6234	2.5597	3.0
5.200	6.96	6.5±1	7.5	5.6234	2.5647	3.0

5.240	6.86	6.5±1	7.5	5.6234	2.5745	3.0
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802.11ac40 (U-NII-1)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.190	6.8	6.5±1	7.5	5.6234	2.5622	3.0
5.230	7.03	6.5±1	7.5	5.6234	2.5721	3.0
802.11ac80 (U-NII-1)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.210	6.90	6.5±1	7.5	5.6234	2.5671	3.0
802.11a (U-NII-3)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.745	7.34	6.5±1	7.5	5.6234	2.6957	3.0
5.785	7.29	6.5±1	7.5	5.6234	2.7051	3.0
5.825	7.09	6.5±1	7.5	5.6234	2.7144	3.0
802.11n20 (U-NII-3)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.745	7.12	6.5±1	7.5	5.6234	2.6957	3.0
5.785	7.09	6.5±1	7.5	5.6234	2.7051	3.0
5.825	7.22	6.5±1	7.5	5.6234	2.7144	3.0
802.11n40 (U-NII-3)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.755	7.34	6.5±1	7.5	5.6234	2.6981	3.0
5.795	7.33	6.5±1	7.5	5.6234	2.7074	3.0
802.11ac20 (U-NII-3)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.745	7.23	6.5±1	7.5	5.6234	2.6957	3.0
5.785	7.12	6.5±1	7.5	5.6234	2.7051	3.0
5.825	7.16	6.5±1	7.5	5.6234	2.7144	3.0
802.11ac40 (U-NII-3)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
5.755	7.26	6.5±1	7.5	5.6234	2.6981	3.0
5.795	7.08	6.5±1	7.5	5.6234	2.7074	3.0
802.11ac80 (U-NII-3)						
Frequency	Conducted	Turn-up Power	Max power of tune	Max power of tune	Calculation	Threshold

(GHz)	Power (dBm)	Tolerance (dB)	up tolerance (dBm)	up tolerance (mw)	Value	Value
5.775	7.17	6.5±1	7.5	5.6234	2.7028	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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