



Appendix E. Spot Check Evaluation

1. Introduction Section

The original model (FCC ID: PY7-19719M) and the variant model (FCC ID: PY7-33143E) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi/NFC/GPS. Based on their similarity, the FCC SAR (equipment class: DTS, DSS, NII) test data of PY7-33143E references the test data of PY7-19719M

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: PY7-33143E).

2. Difference Section

The original model (FCC ID: PY7-19719M) and the variant model (FCC ID: PY7-33143E) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi/NFC/GPS. The details of similarity and difference can be found in the Operating Description.

Cellular transmitter RF components are different in PY7-33143E, to support capability for different cellular bands.

The product specification is outlined in the following table:

FCC ID		PY7-19719M	PY7-33143E
Wireless Tech	Mode	Frequency (MHz)	
GSM	GSM Voice GPRS (GMSK) EDGE (8PSK)	Multi-Slot Class 12 DTM: No	850/1900
UMTS	AMR/RCM12.2Kbps HSDPA/HSUPA/DC-HSDPA		B5/B2
LTE (FDD)	QPSK 16QAM		B5/B2/B7
Wi-Fi	11b/11g/11n(HT20)		B5/B4/B2
	11a/11n(HT20)/11n(HT40)		B12/B17/B13/B5/B4/B2/ B7/B66
Bluetooth	V4.2 LE		2412-2462
NFC	ASK		5180-5240 5260-5320 5500-5720 5745-5825 *5600-5650 notched
			2402-2480 MHz
			13.56 MHz



3. Spot Check Verification Data Section

<Head SAR>

Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Original Model (FCC ID: PY7-19719M)					Spot Check Model (FCC ID PY7-33143E)					Deviation
						Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	6	2437	17.57	18.00	99.53	0.996	1.105	17.95	18.00	99.53	0.964	0.980	-11.3%
WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	52	5260	14.96	15.00	97.77	0.605	0.625	14.52	15.00	97.77	0.637	0.728	16.5%
WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	116	5580	14.76	15.00	97.77	0.555	0.600	14.65	15.00	97.77	0.609	0.675	12.5%
WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	149	5745	14.97	15.00	97.77	0.585	0.603	14.74	15.00	97.77	0.605	0.657	9.0%

<Hotspot SAR>

Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Original Model (FCC ID: PY7-19719M)					Spot Check Model (FCC ID PY7-33143E)					Deviation
						Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WLAN2.4GHz	802.11b 1Mbps	Back	10mm	6	2437	17.57	18.00	99.53	0.292	0.324	17.95	18.00	99.53	0.331	0.337	4.0%

<Product Specific SAR>

Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Original Model (FCC ID: PY7-19719M)					Spot Check Model (FCC ID PY7-33143E)					Deviation
						Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WLAN5GHz	802.11a 6Mbps	Back	0mm	52	5260	14.96	15.00	97.77	0.952	0.983	14.52	15.00	97.77	0.940	1.074	9.3%
WLAN5GHz	802.11a 6Mbps	Back	0mm	100	5500	14.90	15.00	97.77	0.787	0.824	14.74	15.00	97.77	0.812	0.882	7.0%
WLAN5GHz	802.11a 6Mbps	Back	0mm	157	5785	14.95	15.00	97.77	0.862	0.892	14.66	15.00	97.77	0.857	0.948	6.3%

<Body-Worn SAR>

Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Original Model (FCC ID: PY7-19719M)					Spot Check Model (FCC ID PY7-33143E)					Deviation
						Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
WLAN2.4GHz	802.11b 1Mbps	Back	15mm	6	2437	17.57	18.00	99.53	0.102	0.113	17.95	18.00	99.53	0.122	0.124	9.7%
WLAN5GHz	802.11a 6Mbps	Back	15mm	52	5260	14.96	15.00	97.77	0.241	0.249	14.52	15.00	97.77	0.251	0.287	15.3%
WLAN5GHz	802.11a 6Mbps	Back	15mm	116	5580	14.76	15.00	97.77	0.198	0.214	14.65	15.00	97.77	0.168	0.186	-13.1%
WLAN5GHz	802.11a 6Mbps	Back	15mm	157	5785	14.95	15.00	97.77	0.125	0.129	14.66	15.00	97.77	0.130	0.144	11.6%

Note: The spot check verification shows the WLAN SAR performance of PY7-19719M represents the performance of PY7-33143E.

4. Reference detail Section

Rule Part	Frequency Band (MHz)	Wireless Technology	Reference FCC ID	Reference Report Title	Reference Report No.	Reference Report Sections
15C	2400~2483.5	Bluetooth	PY7-19719M	FCC SAR Test Report	FA6N2202-01	Sections related to Bluetooth test data
15C	2400~2483.5	Wi-Fi	PY7-19719M	FCC SAR Test Report	FA6N2202-01	Sections related to WiFi test data
15E	5150~5250 5250~5350 5470~5725 5725~5850	Wi-Fi	PY7-19719M	FCC SAR Test Report	FA6N2202-01	Sections related to WiFi test data