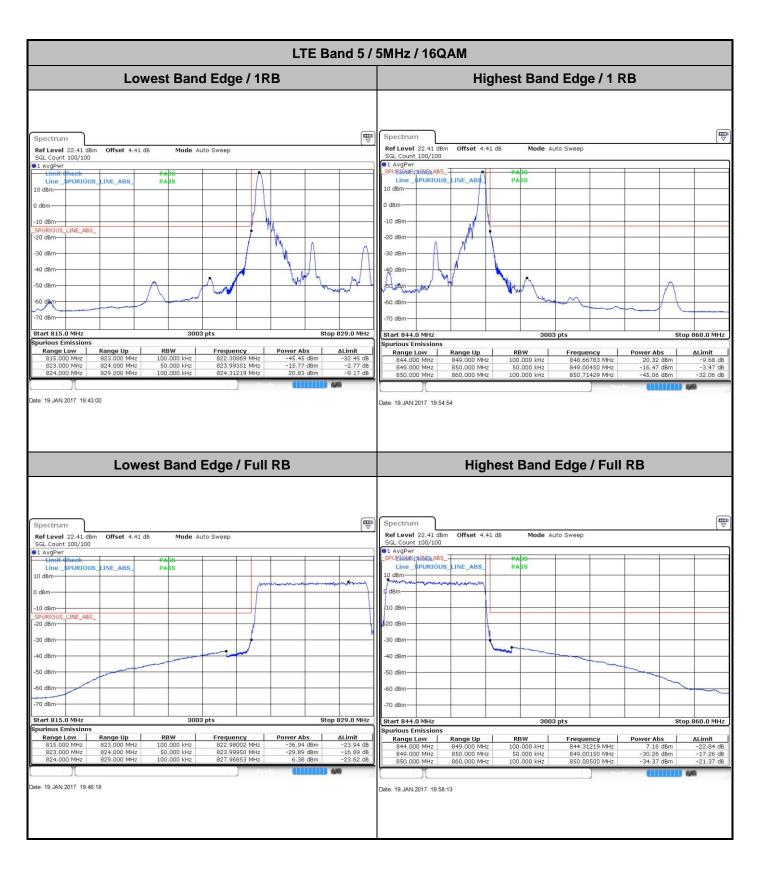


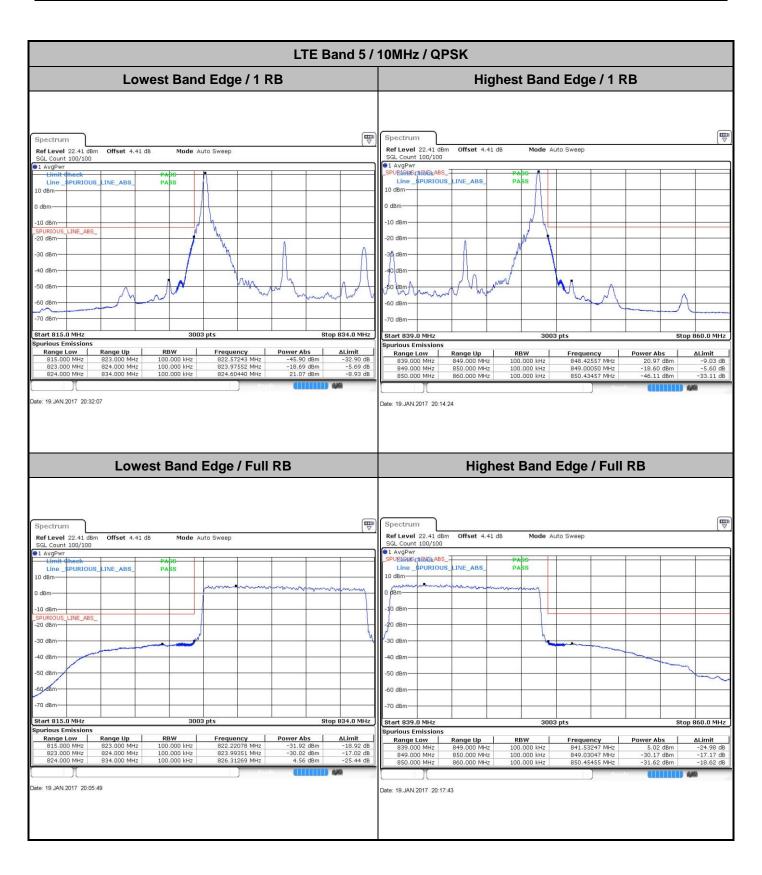
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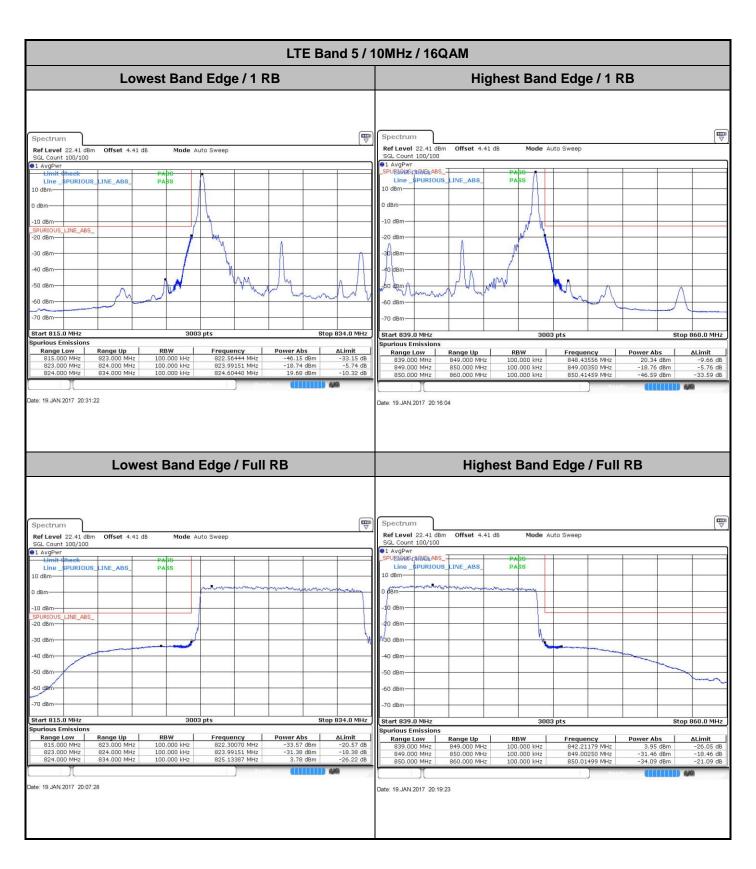
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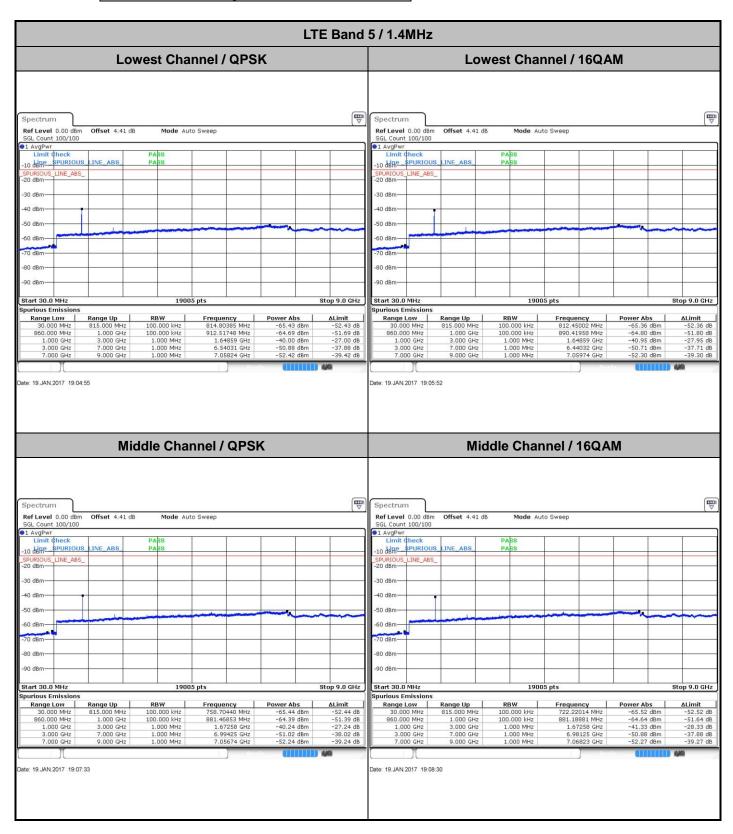
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Conducted Spurious Emission



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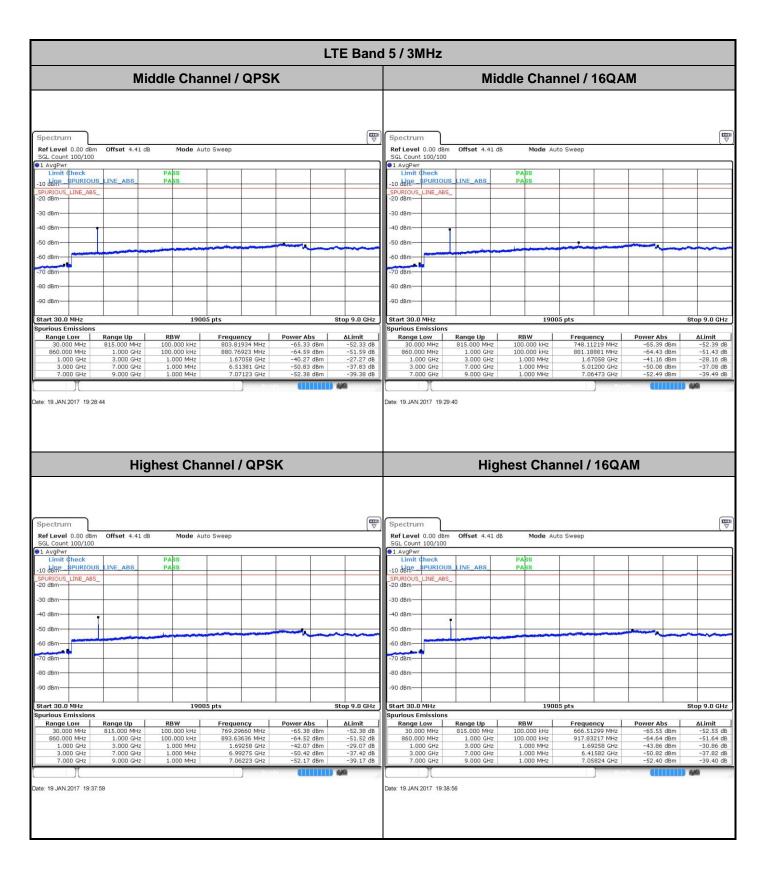
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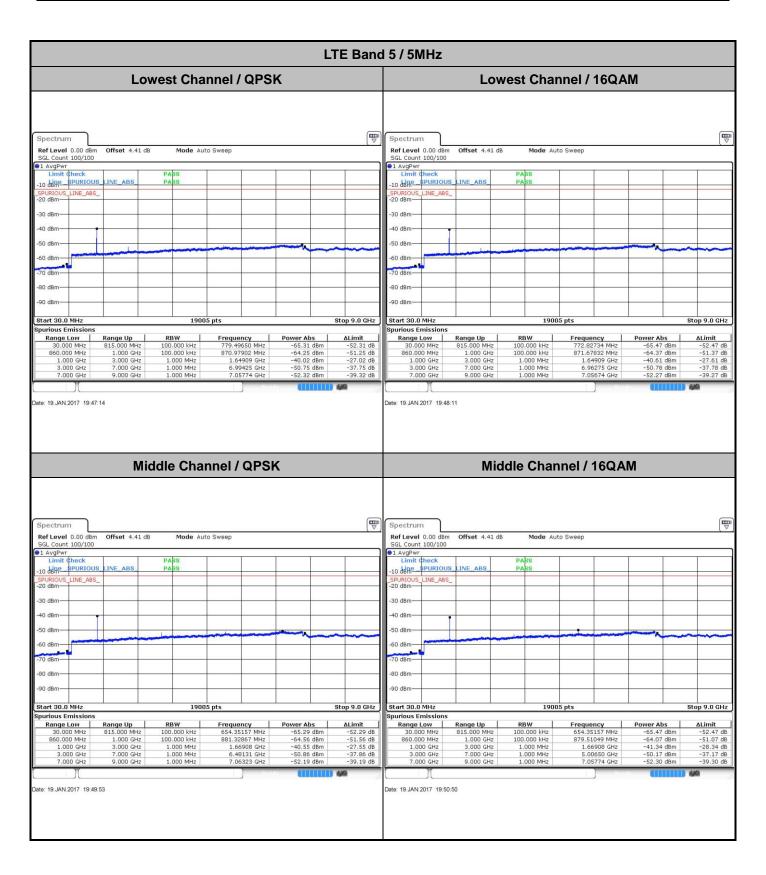
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Frequency Stability

Test (Conditions	LTE Band 5 (QPSK) / Middle Channel	Limit
T	Valta na	BW 10MHz	2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0022	
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0025	PASS
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0016	

Note: Normal Voltage =3.85 V.; Battery End Point (BEP) =3.45 V.; Maximum Voltage =4.40 V.

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

			LTE Band 5	5 / 1.4MHz / C	PSK / RB S	ize 1 Offset ()		
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1672	-45.54	-13	-32.54	-46.03	-47.40	1.19	5.20	Н
	2508	-51.09	-13	-38.09	-54.56	-53.31	1.53	5.90	Н
	3345	-61.84	-13	-48.84	-65.79	-64.63	1.76	6.70	Н
	4179	-68.24	-13	-55.24	-72.87	-71.39	1.90	7.20	Н
Middle	5015.76	-66.71	-13	-53.71	-72.94	-71.29	2.17	8.90	Н
Middle	1672	-45.39	-13	-32.39	-45.55	-47.25	1.19	5.20	V
	2508	-53.59	-13	-40.59	-55.7	-55.81	1.53	5.90	V
	3345	-64.96	-13	-51.96	-68.28	-67.75	1.76	6.70	V
	4179.8	-66.99	-13	-53.99	-73.1	-70.14	1.90	7.20	V
	5016	-63.03	-13	-50.03	-71.58	-67.61	2.17	8.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

			LTE Band	5 / 3MHz / Q	PSK / RB Siz	ze 1 Offset 0			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1670	-44.76	-13	-31.76	-45.37	-46.62	1.19	5.20	Н
	2506	-51.30	-13	-38.30	-54.80	-53.52	1.53	5.90	Н
	3339	-63.40	-13	-50.40	-67.35	-66.19	1.76	6.70	Н
	4176	-68.69	-13	-55.69	-73.32	-71.84	1.90	7.20	Н
N 4: -L-II -	5010	-67.34	-13	-54.34	-73.57	-71.92	2.17	8.90	Н
Middle	1670	-44.45	-13	-31.45	-44.7	-46.31	1.19	5.20	V
	2506	-54.56	-13	-41.56	-56.54	-56.78	1.53	5.90	V
	3342	-65.97	-13	-52.97	-69.29	-68.76	1.76	6.70	V
	4176	-66.76	-13	-53.76	-72.87	-69.91	1.90	7.20	V
	5010	-62.16	-13	-49.16	-70.71	-66.74	2.17	8.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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			LTE Band	5 / 5MHz / Q	PSK / RB Si	ze 1 Offset 0			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1668	-44.18	-13	-31.18	-45.00	-46.04	1.19	5.20	Н
	2502	-51.53	-13	-38.53	-55.06	-53.75	1.53	5.90	Н
	3336	-64.62	-13	-51.62	-68.57	-67.41	1.76	6.70	Н
	4171	-68.62	-13	-55.62	-73.25	-71.77	1.90	7.20	Н
Middle	5007	-66.66	-13	-53.66	-72.89	-71.24	2.17	8.90	Н
Middle	1668	-44.02	-13	-31.02	-44.32	-45.88	1.19	5.20	V
	2502	-53.88	-13	-40.88	-55.9	-56.10	1.53	5.90	V
	3336	-64.84	-13	-51.84	-68.16	-67.63	1.76	6.70	V
	4171	-66.70	-13	-53.70	-72.81	-69.85	1.90	7.20	V
	5007	-61.54	-13	-48.54	-70.09	-66.12	2.17	8.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

			LTE Band	5 / 10MHz / C	PSK / RB Si	ze 1 Offset 0			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1664	-41.15	-13	-28.15	-42.08	-43.01	1.19	5.20	Н
	2496	-49.32	-13	-36.32	-53.40	-51.54	1.53	5.90	Н
	3327	-62.34	-13	-49.34	-66.29	-65.13	1.76	6.70	Н
	4160	-68.11	-13	-55.11	-72.74	-71.26	1.90	7.20	Н
Middle	4992	-63.11	-13	-50.11	-69.34	-67.69	2.17	8.90	Н
Middle	1664	-41.75	-13	-28.75	-42.46	-43.61	1.19	5.20	V
	2496	-53.65	-13	-40.65	-55.74	-55.87	1.53	5.90	V
	3327	-61.31	-13	-48.31	-64.63	-64.10	1.76	6.70	V
	4160	-66.55	-13	-53.55	-72.66	-69.70	1.90	7.20	V
	4992	-59.09	-13	-46.09	-67.64	-63.67	2.17	8.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Appendix D. Product Equality Declaration

SPORTON INTERNATIONAL (KUNSHAN) INC.

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HMD Global Oy

Tel:

Date:

Product Equality Declaration

We, HMD Global Oy declares on our sole responsibility for the product as below:

	Certification information									
SKU	Row	LatAm	Row	LatAm	APAC					
Number of SIM's	SKU1	SKU2	SKU1	SKU2	SKU1					
supported	SS	SS	DS	DS	SS/DS					
Model Name	TA 1020	TA 1020	TA 1022	TA 1029	TA-1020/					
Woder Name	TA-1020	TA-1028	TA-1032	TA-1038	TA-1032					

The differences between Row, Latam, APAC as below:

- RF section
- 1. Antenna pattern and matching has no difference

2. Frequency band difference

	*Radio Fur	nctionality Matrix	-Same Row indicat	tes Signal Path is	Shared among SKUs
Bands	SKU1-SS	SKU1-DS	SKU2-SS	SKU2-DS	Remark
/ Model	TA-1020	TA-1032	TA-1028	TA-1038	-
GSM 850	V	V	V	V	No difference
GSM 900	V	V	V	V	No difference
GSM 1800	V	V	V	V	No difference
GSM 1900	V	V	V	V	No difference
LTE 1	V	V	Х	X	No difference
LTE 2	Х	X	V	V	U3404 for SKU1 SMT is B40 DRX SAW; U3404 for SKU2 is B2DRX SAW
LTE 3	V	V	V	V	No difference
LTE 4	Х	X	V	V	U3304 Only for W_B4 Tx/PRX; LTE B4 TX/PRX
LTE 5	V	V	х	X	U3408 only for SKU1 LTE B5 DRX
LTE 7	V	V	V	V	No difference
LTE 8	V	V	Х	X	Z3404 only for SKU1 LTE band8 DRX
LTE 12	Х	X	V	V	U3311 SMT is different,SKU1 SMT is the Duplexer of B20,SKU2 SMT is the Duplex of B12/B17.
LTE 17	Х	Х	V	V	U3311 SMT is different,SKU1 SMT is the Duplexer of B20,SKU2 SMT is the Duplex of B12/B17.
LTE 20	V	V	Х	Х	U3311 SMT is different,SKU1 SMT is the Duplexer of B20,SKU2 SMT is the Duplex of B12/B17
LTE 28	V	V	V	V	NUL3336 SMT is different for SKU1& SKU
LTE 38	٧	V	V	V	No difference
LTE 40	V	V	Х	Х	U3404 SKU1 SMT is the DRX SAW of LTI B40,SKU2 SMT is the DRX of LTE B2; U3202 is only for SKU1Tx/PRx of LTE B40
WCDMA 1	V	V	V	V	No difference
WCDMA 2	٧	V	V	V	No difference
WCDMA 4	Х	X	V	V	U3304 Only for W_B4 Tx/PRX;LTE B4 TX/PRX
WCDMA 5	V	V	V	V	No difference
WCDMA 8	V	V	V	V	No difference
WLAN 2.4GHz	V	V	V	V	No difference
WLAN 5GHz	V	V	V	V	No difference
Bluetooth	V	V	V	V	No difference
NFC	V	V	V	V	No difference

3. Board difference '

		SKU1-SS	SKU1-DS	SKU2-SS	SKU2-DS					
		TA-1020	TA-1032	TA-1028	TA-1038					
	IC (MT6169)	No difference								
WWAN	Component on PCB		No difference							
	Antenna 1		No differ	ence						
	IC		No differ	ence						
	(MT6625LN)		No differ	ence						
ВТ	Component on PCB	10	No differ	ence	v					
	Antenna		No differ	ence						
WLAN	IC (MT6625LN)	a a	No difference							
2.4GHz	Component on PCB		No difference							
	Antenna		No differ	ence						
WLAN	IC (MT6625LN)		No difference							
5GHz	Component on PCB		No differ	ence						
	Antenna		No differ	ence						
	IC MT6605		No differ	ence						
NFC	Component on PCB		No differ	ence						
	Antenna	¥	No differ	ence						
	IC		No differ	ence						
E-compass	Component on PCB		No difference							
CAD	IC		No difference							
SAR cap Sensor	Component on PCB		No differ	ence						

■ SW section

There is no different for SW design. Only the UI will show different model name.

■ Mechanical section

There is only one different for the structure of SIM Card. For hardware system design is the same.

CNII	SKU1-SS	SKU1-DS	SKU2-SS	SKU2-DS	Remark
SKU	TA-1020	TA-1032	TA-1028	TA-1038	
SIM Slot	Single SIM	Dual SIM	Single SIM	Dual SIM	NA

Except listings above, the others are all the same.

Contact Person: Evon Lee

COMPANY: HMD Global
Tel: †886995635822
E-Mail: evon.lee@hmdglobal.com

Appendix E. Reference Report

Please refer to Sporton report number FG711304-01B which is issued separately.

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