FCC Test Report

APPLICANT : Bullitt Group

EQUIPMENT: Rugged Smart Phone

BRAND NAME : CAT
MODEL NAME : S41
MARKETING NAME : S41

FCC ID : ZL5S41A

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jun. 06, 2017 and testing was completed on Aug. 03, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Louis Wu

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC760506-01	Rev. 01	Initial issue of report	Aug. 22, 2017

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	9.80 dB at
					0.614 MHz
					Under limit
2.2	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	4.72 dB at
3.2					217.65 MHz
					for Quasi-Peak

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1. General Description

1.1. Applicant

Bullitt Group

One Valpy, Valpy Street, Reading, Berkshire, England RG1 1AR

1.2. Manufacturer

Compal Electronics, INC.

No. 385, Yangguang St. Neihu District, Taipei City 11491, Taiwan, R.O.C

1.3. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, FM Receiver, NFC, and GPS.

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Product Specification subjective to this standard						
Antenna Type	WWAN: PIFA + Coupling type (LDS) Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass: PIFA Antenna NFC: Loop Antenna FM: Integral Antenna (Earphone acting as FM antenna deemed					
	as an integral antenna)					

<Sample Information>

S41 has 2 different Variant					
Sample 1	Dual SIM				
Sample 2	Single SIM				
For Dual-SIM or Single-SIM control by SW, the HW difference is SIM holder.					

Remark: All test items were performed with Sample 1.

1.4. Modification of EUT

No modifications are made to the EUT during all test items.

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1.5. Test Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1093 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Took Site Leastion	Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.				
Test Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Toot Site No	Sporton	Site No.			
Test Site No.	CO05-HY	03CH06-HY			

1.6. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

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Test Items	Function Type
	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + NFC on + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 2: WCDMA Band 2 Idle + Bluetooth Idle + WLAN Idle + NFC on + Camera (Front) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
AC Conducted	Mode 3: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + NFC on + Camera (Rear) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
Emission	Mode 4: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + NFC on + FM Rx (98MHz) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 5: Flight mode + Earphone + Battery + USB Cable + Data Link with Notebook + SIM 1
	Mode 6: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + NFC on + FM Rx (98MHz) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2
	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + NFC on + MPEG4 + Earphone + Battery + USB Cable + SIM 1
	Mode 2: WCDMA Band 2 Idle + Bluetooth Idle + WLAN Idle + NFC on + Camera (Front) + Earphone + Battery + USB Cable + SIM 1
	Mode 3: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + NFC on + Camera (Rear) + Earphone + Battery + USB Cable + SIM 1
Radiated Emissions	Mode 4: Flight mode + Earphone + Battery + USB Cable + Data Link with Notebook + SIM 1
	Mode 5: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + NFC on + FM Rx (98MHz) + Earphone + Battery + USB Cable + SIM 1
	Mode 6: Flight mode + Earphone + Battery + OTG Cable + Data Link with USB storage devices + SIM 1
	Mode 7: Flight mode + Earphone + Battery + USB Cable + Data Link with Notebook + SIM 2

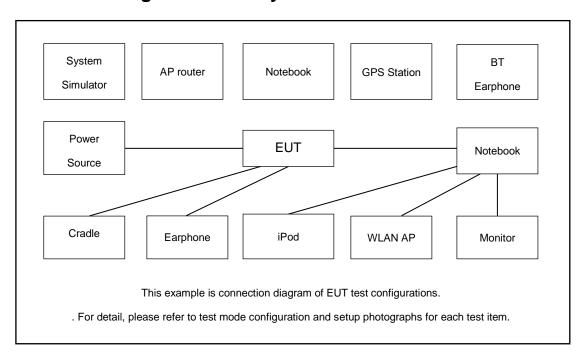
Remark:

- 1. The worst case of AC is mode 4; only the test data of this mode was reported.
- 2. The worst case of RE is mode 5; only the test data of this mode was reported.
- 3. Data Link with Notebook means data application transferred mode between EUT and Notebook.

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2.2. Connection Diagram of Test System



2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029 N/A		N/A
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
6.	iPod	Apple	A1199	FCC DoC	Shielded, 1.0 m	N/A
7.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
9.	USB flash drive	Kingston	Data Traveler 100	FCC Doc	N/A	N/A

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2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between Laptop and EUT via USB cable.
- 2. Execute "Video Media Player" to play MPEG4 files.
- 3. Turn on camera function.
- 4. Turn on NFC function.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted limit (dBuV)			
(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

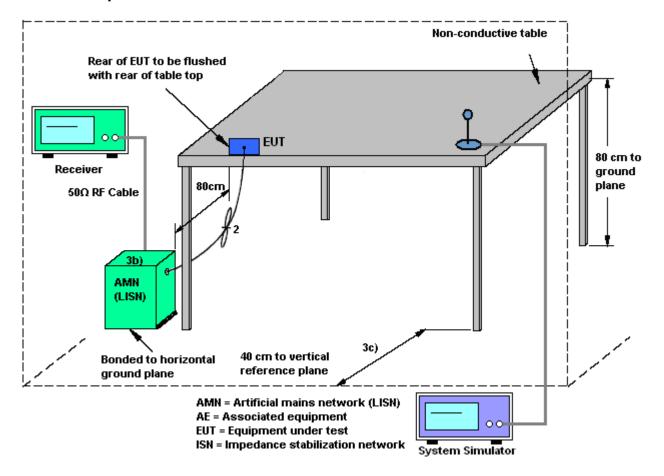
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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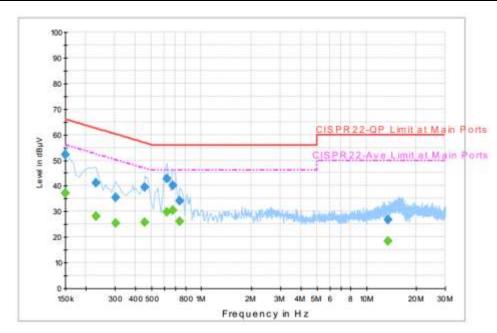
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Sharoof Vi	Temperature :	26~27°C
rest Engineer.	Shareer-ru	Relative Humidity :	50~56%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	52.1	Off	L1	19.6	13.9	66.0
0.230000	41.2	Off	L1	19.6	21.2	62.4
0.302000	35.4	Off	L1	19.6	24.8	60.2
0.454000	39.4	Off	L1	19.6	17.4	56.8
0.622000	42.9	Off	L1	19.6	13.1	56.0
0.670000	40.3	Off	L1	19.6	15.7	56.0
0.742000	34.0	Off	L1	19.6	22.0	56.0
13.558000	26.8	Off	L1	20.4	33.2	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	37.3	Off	L1	19.6	18.7	56.0
0.230000	28.0	Off	L1	19.6	24.4	52.4
0.302000	25.6	Off	L1	19.6	24.6	50.2
0.454000	25.7	Off	L1	19.6	21.1	46.8
0.622000	29.7	Off	L1	19.6	16.3	46.0
0.670000	30.5	Off	L1	19.6	15.5	46.0
0.742000	26.2	Off	L1	19.6	19.8	46.0
13.558000	18.5	Off	L1	20.4	31.5	50.0

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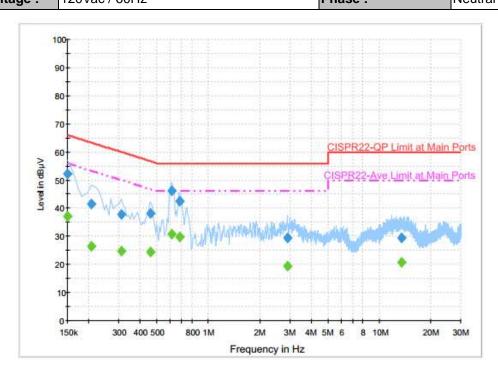
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 Test Engineer :
 Shareef-Yu
 Temperature :
 26~27°C

 Relative Humidity :
 50~56%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	52.3	Off	N	19.5	13.7	66.0
0.206000	41.4	Off	N	19.5	22.0	63.4
0.310000	37.8	Off	N	19.5	22.2	60.0
0.462000	38.1	Off	N	19.5	18.6	56.7
0.614000	46.2	Off	N	19.5	9.8	56.0
0.678000	42.4	Off	N	19.5	13.6	56.0
2.894000	29.5	Off	N	19.5	26.5	56.0
13.558000	29.4	Off	N	20.2	30.6	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	37.2	Off	N	19.5	18.8	56.0
0.206000	26.6	Off	N	19.5	26.8	53.4
0.310000	24.6	Off	N	19.5	25.4	50.0
0.462000	24.4	Off	N	19.5	22.3	46.7
0.614000	30.9	Off	N	19.5	15.1	46.0
0.678000	29.7	Off	N	19.5	16.3	46.0
2.894000	19.3	Off	N	19.5	26.7	46.0
13.558000	20.7	Off	N	20.2	29.3	50.0

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance	
(MHz)	(microvolts/meter)	(meters)	
30 – 88	100	3	
88 – 216	150	3	
216 - 960	200	3	
Above 960	500	3	

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

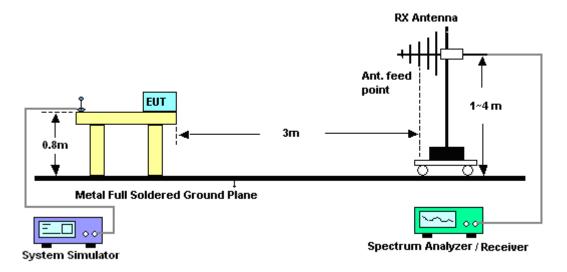
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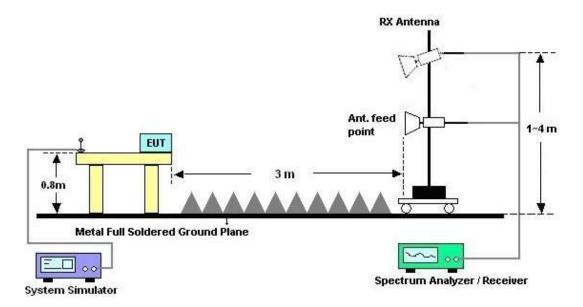
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

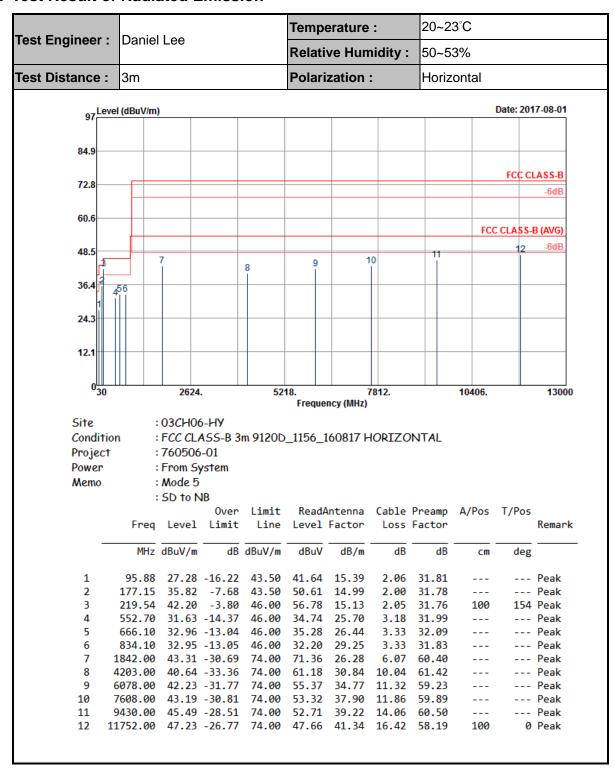


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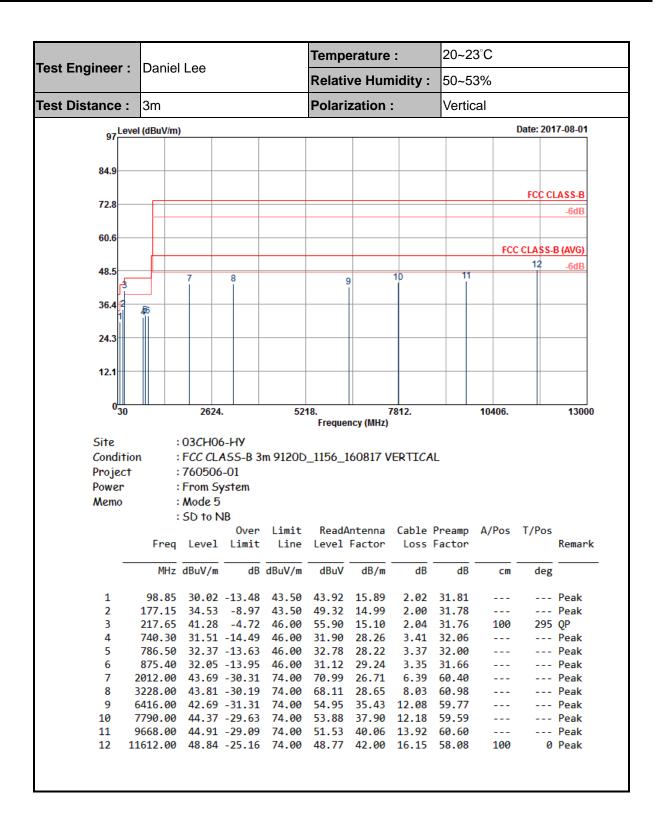
3.2.5. Test Result of Radiated Emission



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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark			
AC Power	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 02, 2017~	NI/A	Conduction			
Source	Chairrek	APC-100000	IN/A	IN/A	IN/A	Aug. 03, 2017	N/A	(CO05-HY)			
EMI Test	Rohde &	E0017	400704	01.11- 70.11-	A 20, 2010	Aug. 02, 2017~	A 20 2047	Conduction			
Receiver	Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Aug. 03, 2017	Aug. 29, 2017	(CO05-HY)			
11011	Rohde &	ENIV (040	400000		Nav. 00, 0040	Aug. 02, 2017~	Nov. 00, 0047	Conduction			
LISN	Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Aug. 03, 2017	Nov. 28, 2017	(CO05-HY)			
1.1011	Rohde &	ENIV (040	400004		D = 00 0040	Aug. 02, 2017~	D = 05 0047	Conduction			
LISN	Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Dec. 06, 2016	Aug. 03, 2017	Dec. 05, 2017	(CO05-HY)		
D'Il a Automo	0-1	CBL6111C&N-	2725&AT-N06	00041- 4011-	0-1 45 0040	Jul. 29, 2017~	0-1-44-0047	Radiation			
Bilog Antenna	Schaffner	6-06	01	30MHz~1GHz	Oct. 15, 2016	Aug. 01, 2017	Oct. 14, 2017	(03CH06-HY)			
EMI Test	Rohde &	F01100	100.170	0011 00 5011	D 00 0040	Jul. 29, 2017~	D 00 0017	Radiation			
Receiver	Schwarz	ESU26	100472	20Hz~26.5GHz	Dec. 29, 2016	Aug. 01, 2017	Dec. 28, 2017	(03CH06-HY)			
	SCHWARZBE	DD114 0400 D	04000 4450	4011- 40011-	A 05 . 0040	Jul. 29, 2017~	A 04 0047	Radiation			
Horn Antenna	СК	BBHA 9120 D	9120D-1156	1GHz~18GHz	Aug. 05, 2016	Aug. 05, 2016	10112-100112 Aug. 00, 2010	Aug. 01, 2017	Aug. 04, 2017	(03CH06-HY)	
D	0000044	0401	400740	0111- 4011-	A = = 05 0047	Jul. 29, 2017~	A = = 0.4 00.40	Radiation			
Preamplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 25, 2017	Apr. 25, 2017	Aug. 01, 2017	Apr. 24, 2018	(03CH06-HY)		
	MITTE	AMF-7D-0010	1050117	4011 40011	M 00 0047	Jul. 29, 2017~	M 04 0040	Radiation			
Preamplifier	MITEQ	1800-30-10P	1850117	1GHz ~ 18GHz	May 22, 2017	May 22, 2017	May 22, 2017	May 22, 2017	Aug. 01, 2017	May 21, 2018	(03CH06-HY)
Antony - Ma	NAT.	ME 7000	MF78020821	4.00 4.00	N1/A	Jul. 29, 2017~	N1/A	Radiation			
Antenna Mast	MF	MF-7802	2	1m~4m	N/A	IN/A	14/7	Aug. 01, 2017	N/A	(03CH06-HY)	
Town Tabl	11111 000	D00000	400/050/00	0.000 de	N1/A	Jul. 29, 2017~	N1/A	Radiation			
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Aug. 01, 2017	N/A	(03CH06-HY)			

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.70
of 95% (U = 2Uc(y))	2.70

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	3.90
of 95% (U = 2Uc(y))	3.90

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	4.70
of 95% (U = 2Uc(y))	4.70

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FCC ID: ZL5S41A IC: 錯誤! 找不到參照來源。

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