

FCC PART 15 SUBPART C TEST REPORT					
FCC PART 15.247					
Report Reference No	GTS20210908006-1-2 2AYD5-l21D01				
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Supervised by (position+printed name+signature) .:	Test Engineer Oliver Ou				
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Date of issue:	Sep.28, 2021				
Representative Laboratory Name .:	Shenzhen Global Test Service Co.,Ltd				
Address	No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong,China				
Applicant's name:	Imin Technology Pte Ltd				
Address:	11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943				
Test specification:					
Standard	FCC Part 15.247				
TRF Originator	Shenzhen Global Test Service Co.,Ltd.				
Master TRF	Dated 2014-12				
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Test item description	Mobile POS				
Trade Mark	iMin				
Manufacturer	Imin Technology Pte Ltd				
Model/Type reference:	I21D01				
Listed Models	N/A				
Modulation Type:	GFSK				
Operation Frequency:	From 2402MHz to 2480MHz				
Hardware Version	: N/A				
Software Version	N/A				
Rating:	: DC 24V by adapter				
Result:	: PASS				

TEST REPORT

	Test Report No. :	G	TS20210908006-1-2	Sep.28, 2021 Date of issue		
E	quipment under Test	:	Mobile POS			
Μ	odel /Type	:	I21D01			
Li	sted model	:	N/A			
A	pplicant	:	Imin Technology Pte Ltd			
A	ddress	:	11 Bishan Street 21, #03-05 B	osch Building, Singapore 573943		
Μ	anufacturer	:	Imin Technology Pte Ltd			
A	ddress	:	11 Bishan Street 21, #03-05 B	osch Building, Singapore 573943		

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz. <u>ANSI C63.10-2013</u>: American National Standard for Testing Unlicensed Wireless Devices <u>KDB558074 D01 DTS Meas Guidance v05r02</u>: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

2. <u>SUMMARY</u>

2.1. General Remarks

Date of receipt of test sample	:	Sep.10, 2021
Testing commenced on	:	Sep.10, 2021
Testing concluded on	:	Sep.28, 2021

2.2. Product Description

Product Name	Mobile POS			
Trade Mark	N/A			
Model/Type reference	I21D01			
List Models	N/A			
Model Declaration	N/A			
Power supply:	DC 24V by adapter			
Sample ID	GTS20210908006-1-1# & GTS20210908006-1-2#			
Bluetooth				
Operation frequency	2402-2480MHz			
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)			
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)			
Modulation Type	GFSK, π/4-DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)			
WIFI(2.4G Band)				
Frequency Range	2412MHz ~ 2462MHz			
Channel Spacing	5MHz			
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz) 7 Channel for 40MHz bandwidth(2422~2452MHz)			
Modulation Type	802.11b: DSSS; 802.11g/n: OFDM			
WIFI(5.2G Band)				
Frequency Range	5180MHz ~ 5240MHz			
Channel Number	4 channels for 20MHz bandwidth(5180-5240MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)			
Modulation Type	802.11a/n/ac: OFDM			
WIFI (5.8G Band)				
Frequency Range	5745MHz ~ 5825MHz			
Channel Number	5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)			
Modulation Type	802.11a/n/ac: OFDM			
Antenna Description	Internal Antenna, 0dBi(Max.) for 2.4G Band and 0dBi(Max.) for 5G Band			
2G				
Support Band	GSM850/PCS1900/GPRS850/GPRS1900/EDGE850/EDGE1900			
Release Version	R99			
GPRS Class	Class 12			
EGPRS Class	Class 12			
GSM/EDGE/GPRS Power Class	GSM850:Power Class 4/ PCS1900:Power Class 1			
GPRS/EDGE Multislot Class	GPRS/EDGE: Multi-slot Class 12			
Type Of Modulation	GMSK for GSM/GPRS; GMSK/8PSK for EGPRS			

Antenna Description	Internal Antenna; 0dBi (max.) For GSM 850;					
	0dBi (max.) For DCS 1900;					
3G	3G					
UMTS Operation Frequency Band	UMTS FDD Band 2(1850 MHz -1910MHz) UMTS FDD Band 5(824 MHz -849MHz)					
WCDMA Release Version	R7					
HSDPA Release Version	Release 5					
HSUPA Release Version	Release 6					
HSPA+ Release Version	Release 7					
Modulation Type	QPSK for UMTS					
Antenna DescriptionInternal Antenna;OdBi (max.) For WCDMA Band 2;OdBi (max.) For WCDMA Band 5;						
LTE						
LTE Operation Frequency Band	E-UTRA Band 5(824 MHz -849MHz) E-UTRA Band 7(2500 MHz -2570MHz) E-UTRA Band 41(2496 MHz -2690MHz)					
LTE Release Version	R9					
Type Of Modulation	QPSK/16QAM					
Antenna Description	Internal Antenna; OdBi (max.) For LTE Band 5; OdBi (max.) For LTE Band 7; OdBi (max.) For LTE Band 41;					
RFID(13.56MHz) (Optional)						
Frequency Range	13.56MHz					
Channel Number	1					
Modulation Type	ASK					
Antenna Description	Internal Antenna, 0dBi (Max.)					
GPS(RX)	Support					

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	•••	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	ullet	24 V DC
		0	O Other (specified in blank below)		

DC 24.0V

2.4. Short description of the Equipment under Test (EUT)

This is a Mobile POS

For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 40 channels provided to the EUT. Channel 00/19/39 was selected to test.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)			
	2402	1			
(BLE)	2440	1			
	2480	1			
For Conducted Emission					
Test Mode		TX Mode			
For Radiated Emission					
Test Mode		TX Mode			

Channel	Frequency(MHz)	Channel	Frequency(MHz)	
0	2402	20	2442	
1	2404	21	2444	
2	2406	22	2446	
18	2438	38	2478	
19	2440	39	2480	

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, which was determined to be BT LE mode (MCH).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be BT LE mode(MCH).

2.6. Block Diagram of Test Setup



2.7. EUT Exercise Software

The system enters the engineering mode through the instructions provided by the application (*#*#83781#*#*), tests under continuous transmission conditions, and changes the test channel.

2.8. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
JiangSu Sunward Electronic Technology Co, Ltd	Adapter	AD65CM240150		SDOC

2.9. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	1.0M, Unscreened Cable
USB Port	2	N/A
LAN Port	1	N/A
Telephone Port	1	N/A
Type-C Port	1	N/A

2.10. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AYD5-I21D01 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.11. Modifications

No modifications were implemented to meet testing criteria.

3. <u>TEST ENVIRONMENT</u>

3.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Global Test Service Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Test Description

	Applied Standard: FCC Part 15 Subpart C					
ISED Rules	Description of Test	Test Sample	Result	Remark		
/	On Time and Duty Cycle	GTS20210908006-1-1#	/	/		
§15.247(b)	Maximum Conducted Output Power	GTS20210908006-1-1#	Compliant	Note 1		
§15.247(e)	Power Spectral Density	GTS20210908006-1-1#	Compliant	Note 1		
§15.247(a)(2)	6dB Bandwidth	GTS20210908006-1-1#	Compliant	Note 1		
§2.1047	99% Occupied Bandwidth	/	N/A	N/A		
§15.209, §15.247(d)	Conducted Spurious Emissions	GTS20210908006-1-1#	Compliant	Note 1		
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20210908006-1-1# GTS20210908006-1-2#	Compliant	Note 1		
§15.205	§15.205 Emissions at Restricted Band		Compliant	Note 1		
§15.207(a)	AC Conducted Emissions	GTS20210908006-1-2#	Compliant	Note 1		
§15.203 §15.247(c)	Antenna Requirements	GTS20210908006-1-1#	Compliant	Note 1		
§15.247(i)§2.1091	RF Exposure	/	Compliant	Note 2		

Remark:

- The measurement uncertainty is not included in the test result. NA = Not Applicable; NP = Not Performed 1.
- 2.
- 3.
- Note 1 Test results inside test report; Note 2 Test results in other test report (MPE Report). 4.
- We tested all test mode and recorded worst case in report 5.

3.6. Equipments Used during the Test

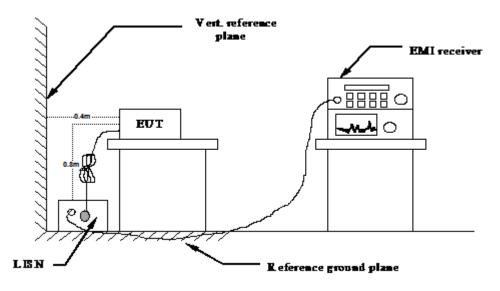
	_				•
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2021/07/17	2022/07/16
LISN	R&S	ESH2-Z5	893606/008	2021/07/17	2022/07/16
EMI Test Receiver	R&S	ESPI3	101841-cd	2021/07/17	2022/07/16
EMI Test Receiver	R&S	ESCI7	101102	2021/09/19	2022/09/18
Spectrum Analyzer	Agilent	N9020A	MY48010425	2021/09/19	2022/09/18
Spectrum Analyzer	R&S	FSV40	100019	2021/07/17	2022/07/16
Vector Signal generator	Agilent	N5181A	MY49060502	2021/07/17	2022/07/16
Signal generator	Agilent	N5182A	3610AO1069	2021/09/19	2022/09/18
Climate Chamber	ESPEC	EL-10KA	A20120523	2021/09/19	2022/09/18
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2020/11/08	2021/11/07
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2020/10/11	2021/10/10
Bilog Antenna	Schwarzbeck	VULB9163	000976	2021/08/08	2022/08/07
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2020/11/08	2021/11/07
Amplifier	Schwarzbeck	BBV 9743	#202	2021/07/17	2022/07/16
Amplifier	Schwarzbeck	BBV9179	9719-025	2021/07/17	2022/07/16
Amplifier	EMCI	EMC051845B	980355	2021/07/17	2022/07/16
Temperature/Humidi ty Meter	Gangxing	CTH-608	02	2021/07/17	2022/07/16
High-Pass Filter	K&L	9SH10- 2700/X12750- O/O	KL142031	2021/07/17	2022/07/16
High-Pass Filter	K&L	41H10- 1375/U12750- O/O	KL142032	2021/07/17	2022/07/16
RF Cable(below 1GHz)	HUBER+SUHNE R	RG214	RE01	2021/07/17	2022/07/16
RF Cable(above 1GHz)	HUBER+SUHNE R	RG214	RE02	2021/07/17	2022/07/16
Data acquisition card	Agilent	U2531A	TW53323507	2021/07/17	2022/07/16
Power Sensor	Agilent	U2021XA	MY5365004	2021/07/17	2022/07/16
Test Control Unit	Tonscend	JS0806-1	178060067	2021/07/17	2022/07/16
Automated filter bank	Tonscend	JS0806-F	19F8060177	2021/07/17	2022/07/16
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/
Note: 1. The Cal.Interv	val was one vear.				

Note: 1. The Cal.Interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.

2 Support equipment, if needed, was placed as per ANSI C63.10-2013

3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013

4 The EUT received DC 24V power, the adapter received AC120V/60Hz or AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.

5 All support equipments received AC power from a second LISN, if any.

6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.

7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

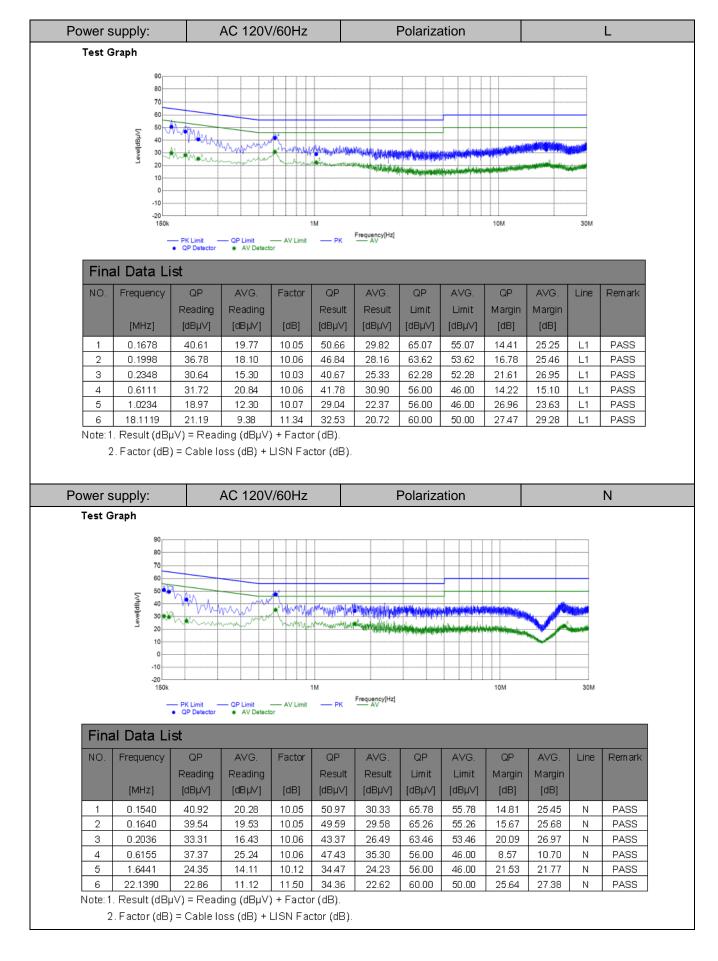
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency range (MHz)	Limit (d	dBuV)	
	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.			

TEST RESULTS

Remark: We measured Conducted Emission at GFSK mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

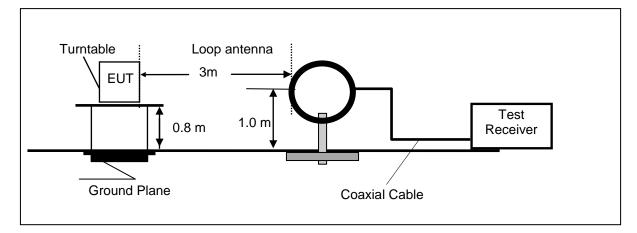
Temperature	25 ℃	Humidity	60%
Test Engineer	Oliver Ou	Configurations	BT



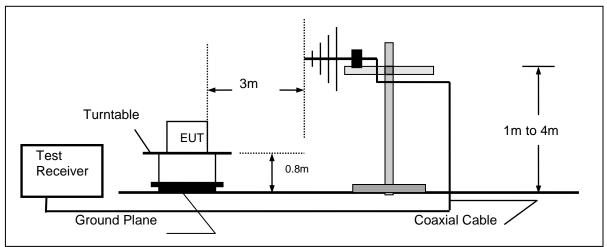
4.2. Radiated Emission

TEST CONFIGURATION

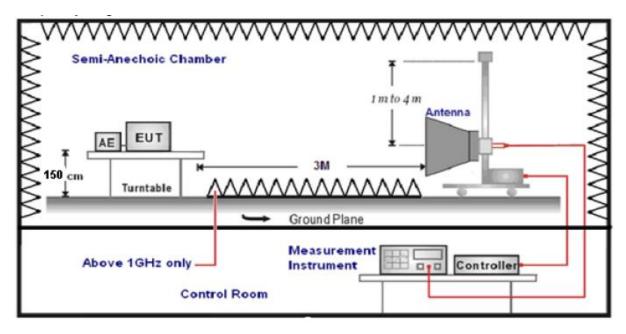
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

- The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. Radiated emission test frequency band from 30MHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test	Frequency	Test Receiver/Spectrum Setting	Detector		
range					
9KHz-18	50KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP		
150KHz	-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP		
30MHz-	1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP		
		Peak Value: RBW=1MHz/VBW=3MHz,			
1GHz-40GHz		Sweep time=Auto	Peak		
10112-40	UGHZ	Average Value: RBW=1MHz/VBW=10Hz,	reak		
		Sweep time=Auto			

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark: We measured Radiated Emission at GFSK mode from 30 MHz to 25GHz in AC120V and the worst case was recorded.

Temperature	25 ℃	Humidity	60%
Test Engineer	Oliver Ou	Configurations	BT

For 9 KHz~30MHz

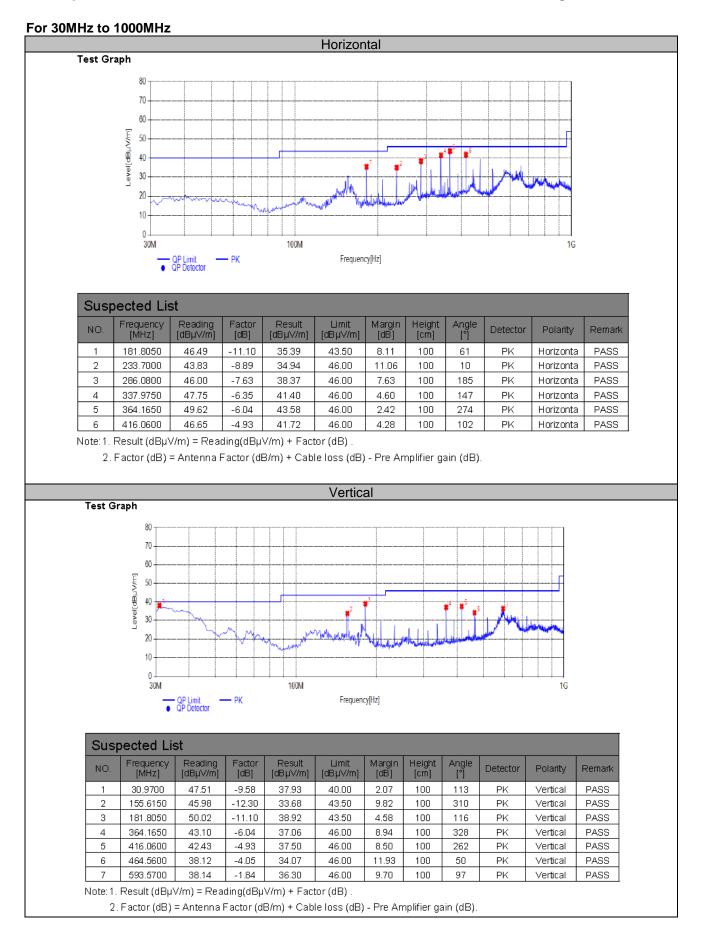
Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.



For 1GHz to 25GHz

BT LE

Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	49.43	32.44	30.25	7.95	59.57	74.00	-14.43	Peak	Horizontal
4804.00	35.73	32.44	30.25	7.95	45.87	54.00	-8.13	Average	Horizontal
4804.00	54.51	32.44	30.25	7.95	64.65	74.00	-9.35	Peak	Vertical
4804.00	35.65	32.44	30.25	7.95	45.79	54.00	-8.21	Average	Vertical

Channel 19 / 2440 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4880.00	50.40	32.52	30.31	8.12	60.73	74.00	-13.27	Peak	Horizontal
4880.00	37.33	32.52	30.31	8.12	47.66	54.00	-6.34	Average	Horizontal
4880.00	52.50	32.52	30.31	8.12	62.83	74.00	-11.17	Peak	Vertical
4880.00	36.72	32.52	30.31	8.12	47.05	54.00	-6.95	Average	Vertical

Channel 39 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	51.61	32.68	30.27	7.88	61.90	74.00	-12.10	Peak	Horizontal
4960.00	35.61	32.68	30.27	7.88	45.90	54.00	-8.10	Average	Horizontal
4960.00	50.36	32.68	30.27	7.88	60.65	74.00	-13.35	Peak	Vertical
4960.00	32.34	32.68	30.27	7.88	42.63	54.00	-11.37	Average	Vertical

Notes:

1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.

2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.

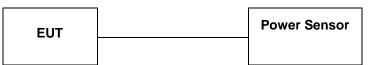
3). Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

4). Measured= Reading- Pre. Fac.+ Ant. Fac.+ Cab. Loss

5). Margin = Measured- Limit

4.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB558074 D01 DTS Measurement Guidance Section 9.1 Maximum peak conducted output power,9.1.2.

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

<u>LIMIT</u>

The Maximum Peak Output Power Measurement is 30dBm.

TEST RESULTS

Temperature	22.9 ℃	Humidity	53.2%	
Test Engineer	Oliver Ou	Configurations	BT	

Modulation	Channel	Peak Output power (dBm)	Limit (dBm)	Result
	0	1.78		
GFSK	19	1.93	30	Pass
	39	0.73		

Note: 1.The test results including the cable lose.

4.4. Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

1.Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

2.Set the RBW =3 kHz.

3.Set the VBW =10 KHz.

4.Set the span to 1.5 times the DTS channel bandwidth.

5.Detector = peak.

6.Sweep time = auto couple.

7.Trace mode = max hold.

8.Allow trace to fully stabilize.

9.Use the peak marker function to determine the maximum power level.

10.If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

11. The resulting peak PSD level must be 8 dBm.

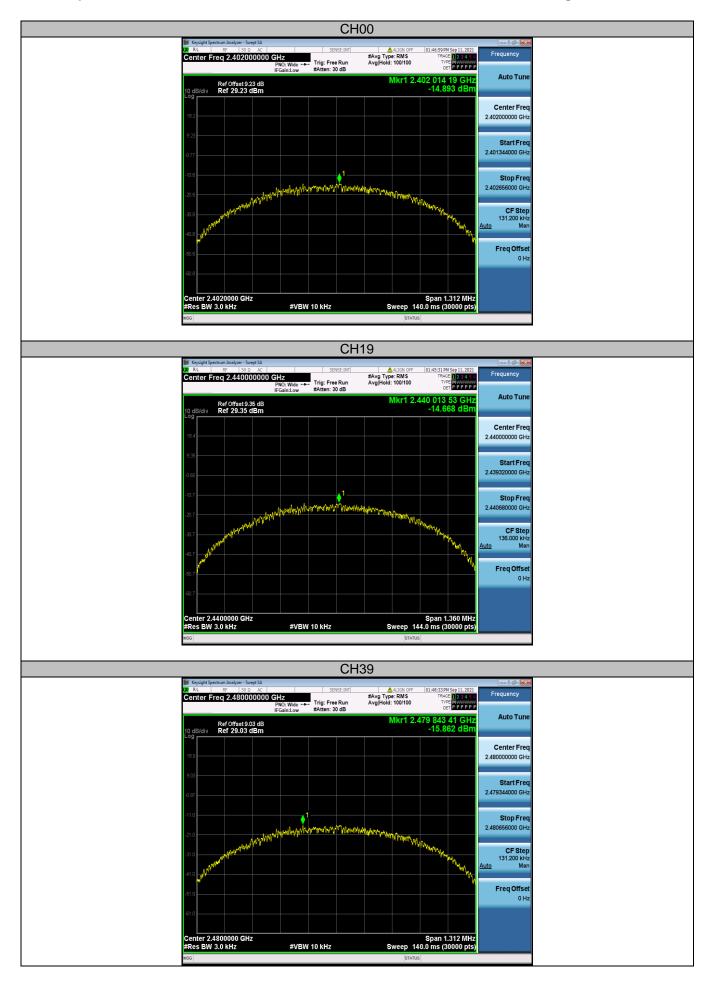
<u>LIMIT</u>

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST RESULTS

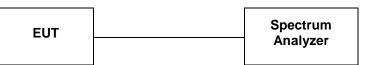
Temperature	22.9 ℃	Humidity	53.2%	
Test Engineer	Oliver Ou	Configurations	BT	

Modulation	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
	0	-14.89		
GFSK	19	-14.67	8.00	Pass
	39	-15.86		



4.5. 6dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300KHz. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. According to KDB558074 D01 DTS Meas Guidance v05r02 for one of the following procedures may be used to determine the modulated DTS device signal bandwidth.

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

<u>LIMIT</u>

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

TEST RESULTS

Temperature	22.9 ℃	Humidity	53.2%		
Test Engineer	Oliver Ou	Configurations	BT		

Modulation	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
	0	0.656		
GFSK	19	0.680	≥500	Pass
	39	0.656		

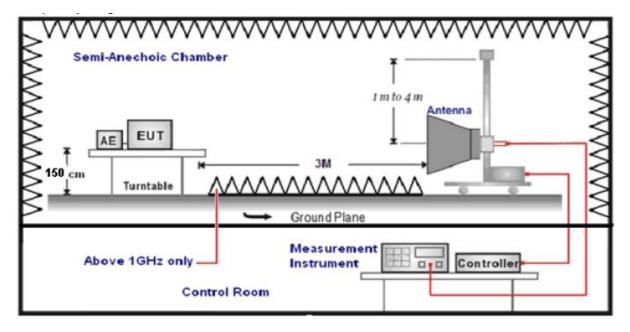


4.6. Band Edge Compliance of RF Emission

TEST REQUIREMENT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was placed on a turn table which is 1.5m above ground plane.

- 2.Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3.And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4.Repeat above procedures until all frequency measurements have been completed..
- 5. The distance between test antenna and EUT was 3 meter:
- 6.Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

LIMIT

Below -20dB of the highest emission level in operating band.

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)

TEST RESULTS

4.6.1 For Radiated Bandedge Measurement

Temperature	23.8 ℃	Humidity	53.7%		
Test Engineer	Oliver Ou	Configurations	BT		

Frequency	Frequency(MHz): 2402				Polarity: HORIZONTAL				NTAL		
Frequency (MHz)	Emiss Leve (dBuV	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2390.00	45.36	PK	74.00	-28.64	1	80	50.67	27.49	3.32	36.12	-5.31
2390.00	34.61	AV	54.00	-19.39	1	80	39.92	27.49	3.32	36.12	-5.31
Frequency	y(MHz):			2402			Polarity:			VERTI	CAL
Frequency (MHz)	Emiss Leve (dBuV	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2390.00	49.99	PK	74.00	-24.01	1	293	55.30	27.49	3.32	36.12	-5.31
2390.00	30.49	AV	54.00	-23.51	1	293	35.80	27.49	3.32	36.12	-5.31
Frequency	y(MHz):			2480			Polarity:		H	IORIZO	NTAL
Frequency (MHz)	Emiss Leve (dBuV)	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2483.50	44.95	PK	74.00	-29.05	1	178	50.67	27.45	3.38	36.55	-5.72
2483.50	33.64	AV	54.00	-20.36	1	178	39.36	27.45	3.38	36.55	-5.72
Frequency	y(MHz):			2480			Polarity:		VERTICAL		
Frequency (MHz)	Emiss Leve (dBuV	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2483.50	48.46	ΡK	74.00	-25.54	1	114	54.18	27.45	3.38	36.55	-5.72
2483.50	29.59	AV	54.00	-24.41	1	114	35.31	27.45	3.38	36.55	-5.72

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)

2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

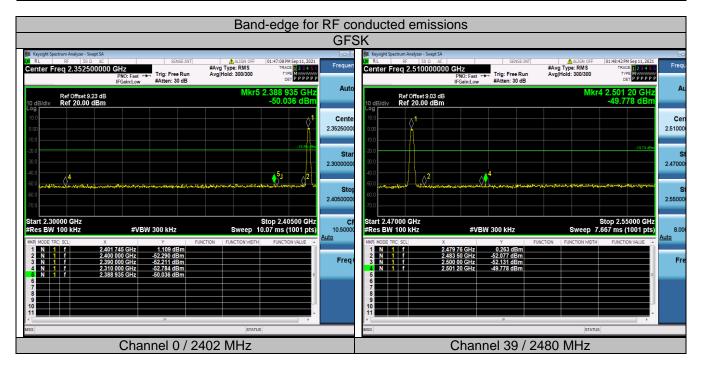
3. Margin value = Limit value- Emission level.

4. -- Mean the PK detector measured value is below average limit.

5. The other emission levels were very low against the limit.

4.6.2 For Conducted Bandedge Measurement

Temperature	22.9 ℃	Humidity	53.2%
Test Engineer	Oliver Ou	Configurations	BT



4.7. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The antenna used for this product is Internal Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

Reference to the Test Report: GTS20210908006-1-1.

5. TEST SETUP PHOTOS OF THE EUT

Reference to the test report No. GTS20210908006-1-1 .

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No. GTS20210908006-1-1 .

.....End of Report.....