

FCC TEST REPORT

Test report On Behalf of Streamax Technology Co.,Ltd For Tablet Model No.: Smart Pad

FCC ID: 2AM6L-SPAD

Prepared for :	Streamax Technology Co.,Ltd 21-23/F, Building B1, Zhiyuan, No. 1001, Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong,P.R. China
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Date of Test:	Aug. 15, 2018~Dec. 24, 2018
Date of Report:	Dec. 24, 2018
Report Number:	HUAK180817834E



TEST RESULT CERTIFICATION

Applicant's name	Streamax Technology Co.,Ltd		
Address	21-23/F, Building B1, Zhiyuan, No. 1001, Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong,P.R. China		
Manufacture's Name	Streamax Technology Co.,Ltd		
Address	21-23/F, Building B1, Zhiyuan, No. 1001, Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong,P.R. China		
Factory's Name	Streamax Electronics Co.,Ltd.		
Address	5th-6thFloor, West, Chuangxiang 2nd Building, Yanxiang Technology Park, 11# High-tech West Road, Guangming District, Shenzhen, Guangdong Province, P.R. China		
Product description	Tablet		
Brand Name	Streamax		
Mode Name	Smart Pad		
Standards	FCC Rules and Regulations Part 15 Subpart C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05		

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Date of Test	
Date (s) of performance of tests	
Date of Issue	
Test Result	

Aug. 15, 2018~Dec. 24, 2018 Dec. 24, 2018 Pass

Testing Engineer

Bian

(Gary Qian)

Technical Manager

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(Eden Hu)

Authorized Signatory :

(Jason Zhou)



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Revision	Issue Date	Revisions	Revised By
V1.0	Dec. 24, 2018	Initial Issue	Jason Zhou



1. GENERAL INFORMATION 1.1PRODUCT DESCRIPTION

The EUT is designed as "Tablet". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following:

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.1
Modulation	GFSK
Number of channels	40 Channel(37 Hopping Channel,3 advertising Channel)
Antenna Designation	PIFA Antenna
Antenna Gain	1.0dBi
Hardware Version	1480
Software Version	RMVST_SPAD
Power Supply	DC12V



1.2 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AM6L-SPAD** filing to comply with Section 15.247of the FCC Part 15, Subpart C Rules.

1.3TEST METHODOLOGY

All measurements contained in this report were conducted with KDB 558074, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions. The EUT was tested in all three orthogonal planes and the worse case was showed.



1.4 TEST FACILITY

Site	Shenzhen HUAK Testing Technology Co., Ltd.	
Location	1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China	
Designation Number	CN1229	
Test Firm Registration Number : 616276		

1.5 SPECIAL ACCESSORIES

Refer to section 2.2.

1.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



2. MEASUREMENT UNCERTAINTY

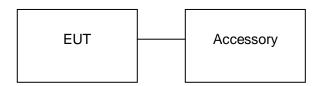
Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	(1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±0.01ppm	(1)
Radiated Emission 30~1000MHz	±4.10dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
Conducted Disturbance0.15~30MHz	±3.20dB	(1)

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

4. SYSTEM TEST CONFIGURATION

4.1 CONFIGURATION OF TESTED SYSTEM

Configuration:



4.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Tablet	Smart Pad	2AM6L-SPAD	EUT
2	Battery	N/A	DC 3.7V/2400mAh	Accessory
3	Data Hub	N/A	N/A	Accessory
4	Front Panel	N/A	N/A	Accessory



	RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Power meter	Agilent	E4417B	HKE-107	Dec. 28, 2018	
Power Sensor	Agilent	E9327A	HKE-113	Dec. 28, 2018	
RF cable	Times	1-40G	HKE-034	Dec. 28, 2018	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2018	
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2018	
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Dec. 28, 2018	
Signal generator	Agilent	N5183A	HKE-071	Dec. 28, 2018	
Receiver	R&S	ESCI-7	HKE-010	Dec. 28, 2018	
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2018	
Preamplifier	EMCI	EMC051845SE	HKE-015	Dec. 28, 2018	
Preamplifier	Agilent	83051A	HKE-016	Dec. 28, 2018	
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2018	
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 28, 2018	
Horn antenna	Schwarzbeck	9120D	HKE-013	Dec. 28, 2018	
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	
Position controller	Taiwan MF	MF7802	HKE-011	Dec. 28, 2018	
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	
RF cable (9KHz-1GHz)	Times	381806-001	N/A	N/A	
RF cable	Times	1-40G	HKE-034	Dec. 28, 2018	
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	HKE-094	Feb. 28, 2020	
Horn Ant (18G-40GHz)	ETS	QWH_SL_18_40_K_SG	HKE-092	Feb. 28, 2020	



5. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.209 §15.247(d)	Radiated Emission	Compliant
§15.247(d)	Band Edges	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247(b)	Conducted Power	Compliant
§15.247(e)	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.207	Line Conduction Emission	N/A
§15.207	Conduction Emission	Compliant



6. DESCRIPTION OF TEST MODES

The EUT has been operated in three modulations: GFSK independently.

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Operating (BT)
Note:	

Note:

1. All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report if no any records.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. EUT is operating at its maximum duty cycle>or equal 98%

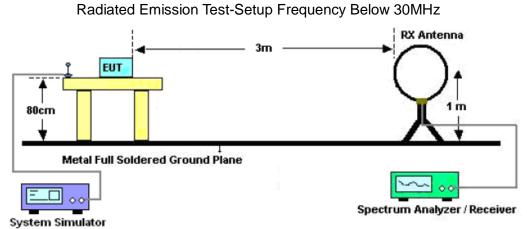


7. RADIATED EMISSION

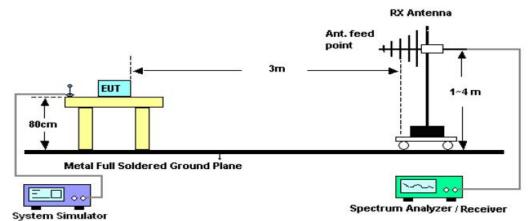
7.1 MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

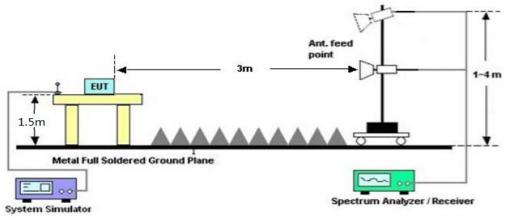




RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





7.3 LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.



RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION TEST- (30MHZ-1GHZ) -HORIZONTAL 66.9 dBuV/m Limit: Margin: 6 X AN 5 X monthlyman 3 Mohilm In Mary My M 27 -13 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

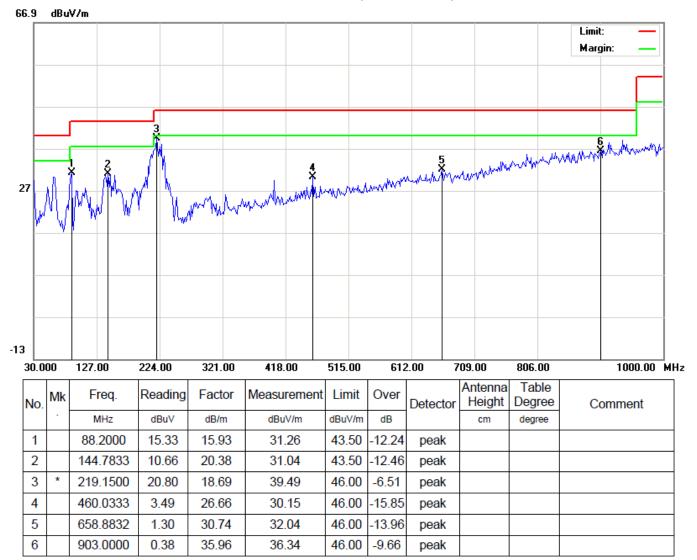
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		73.6500	7.58	17.15	24.73	40.00	-15.27	peak			
2	*	224.0000	17.17	19.06	36.23	46.00	-9.77	peak			
3		400.2167	8.38	25.42	33.80	46.00	-12.20	peak			
4		624.9333	3.17	30.21	33.38	46.00	-12.62	peak			
5		783.3667	0.85	33.67	34.52	46.00	-11.48	peak			
6		969.2833	2.50	36.77	39.27	54.00	-14.73	peak			

RESULT: PASS

RADIATED EMISSION BELOW 1GHZ



RADIATED EMISSION TEST- (30MHZ-1GHZ) -VERTICAL



RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

3. All test modes for different EUT are pre-tested. The low channel for GFSK mode is the worst case and recorded in the report.



RADIATED EMISSION ABOVE 1GHZ

Frequency	Emission Level	Limits	Margin	Detector	Commont
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	L	ow Channel (2402	MHz)	-	
4804	50.54	74	-23.46	Pk	Vertical
4804	40.29	54	-13.71	AV	Vertical
4804	53.36	74	-20.64	Pk	Horizontal
4804	37.26	54	-16.74	AV	Horizontal
	N	1id Channel (2440	MHz)		
4880	51.65	74	-22.35	Pk	Vertical
4880	39.44	54	-14.56	AV	Vertical
4880	49.26	74	-24.74	Pk	Horizontal
4880	38.41	54	-15.59	AV	Horizontal
	Н	igh Channel (2480	MHz)		
4960	49.33	74	-24.67	pk	Vertical
4960	39.16	54	-14.84	AV	Vertical
4960	48.29	74	-25.71	pk	Horizontal
4960	39.21	54	-14.79	AV	Horizontal

RESULT: PASS

Note: 1~25GHz scan with GFSK. No recording in the test report at least have 20dB margin.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Emission - Level Limit



8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

1)Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

2)Conducted Emissions at the bang edge

a)The transmitter output was connected to the spectrum analyzer

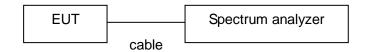
b)Set RBW=100kHz,VBW=300kHz

c)Suitable frequency span including 100kHz bandwidth from band edge

8.2. TEST SET-UP

Radiated same as 6.2

Conducted set up





8.3. RADIATED TEST RESULT

Frequency	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
		GF	SK		
2399.9	52.45	74	-21.55	peak	Vertical
2399.9	39.25	54	-14.75	AVG	Vertical
2399.9	49.23	74	-24.77	peak	Horizontal
2399.9	38.11	54	-15.89	AVG	Horizontal
2483.6	50.00	74	-24.00	peak	Vertical
2483.6	39.16	54	-14.84	AVG	Vertical
2483.6	49.28	74	-24.72	peak	Horizontal
2483.6	37.79	54	-16.21	AVG	Horizontal

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain,

Emission Level = Meter Reading + Factor

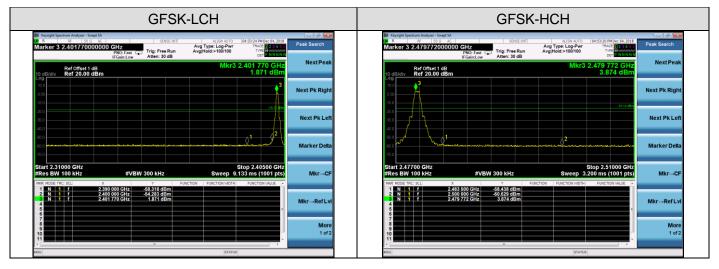
Margin= Emission Level -Limit.

The "Factor" value can be calculated automatically by software of measurement system.



8.4. CONDUCTED TEST RESULT

Test Graph





9.6DB BANDWIDTH

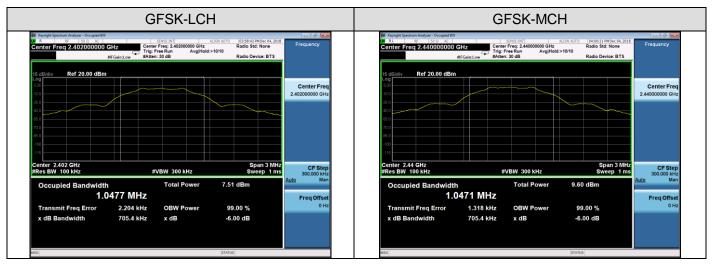
9.1. TEST PROCEDURE

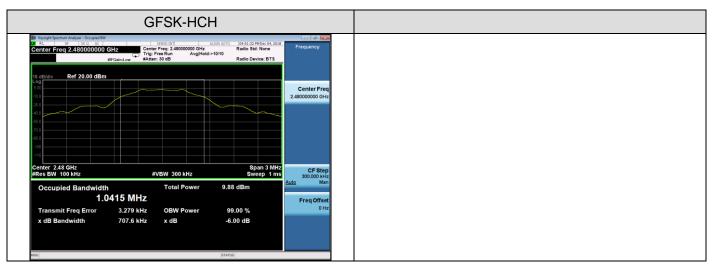
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW≥RBW.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. SUMMARY OF TEST RESULTS/PLOTS

Mode	Channel	6dB Bandwidth [KHz]	Verdict
BLE	LCH	705.4	PASS
BLE	MCH	705.4	PASS
BLE	НСН	707.6	PASS

Test Graph







10. CONDUCTED OUTPUT POWER

10.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. Use the following spectrum analyzer settings:

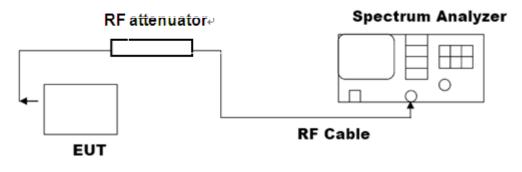
Set the RBW \geq DTS bandwidth Set the VBW \geq 3 x RBW Set the span \geq 3 x RBW Detector = peak Sweep time = auto couple

Trace mode = max hold

- 4. Allow the trace to stabilize. Use peak marker function to determine the peak amplitude level
- 5. Record the result form the Spectrum Analyzer.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

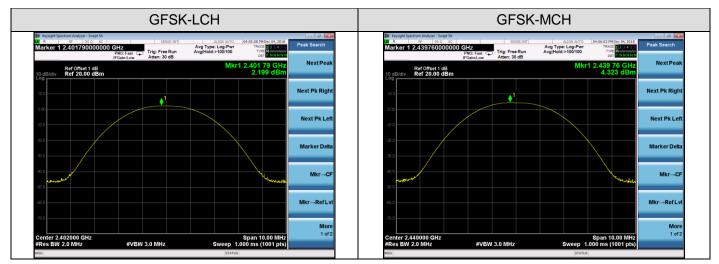




10.3. LIMITS AND MEASUREMENT RESULT

Channel	Peak Power (dBm)	Applicable Limits (dBm)	Pass/Fail
Low Channel	2.199	30	Pass
Middle Channel	4.323	30	Pass
High Channel	4.618	30	Pass

Test Graph







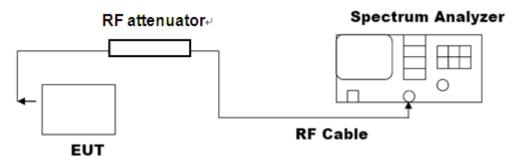
11. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

11.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

11.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

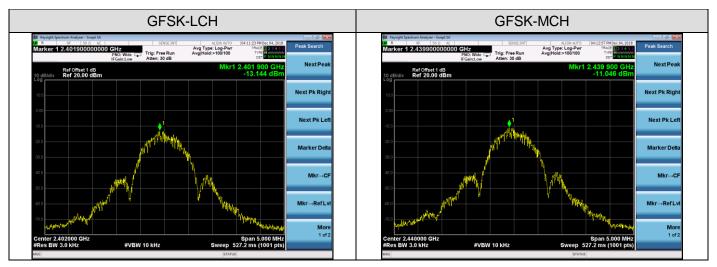




11.3 LIMITS AND MEASUREMENT RESULT

Mode	Channel	PSD [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	LCH	-13.144	8	PASS
BLE	MCH	-11.046	8	PASS
BLE	НСН	-10.791	8	PASS

Test Graph







12. CONDUCTED SPURIOUS EMISSION

12.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
- $RBW = 100 \text{ kHz}; VBW \ge RBW; Sweep = auto; Detector function = peak.$
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW>RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.



12.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

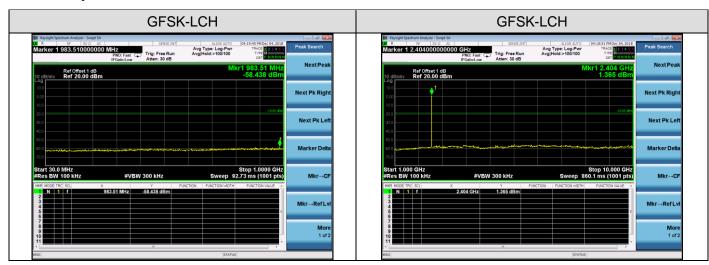
12.3. MEASUREMENT EQUIPMENT USED

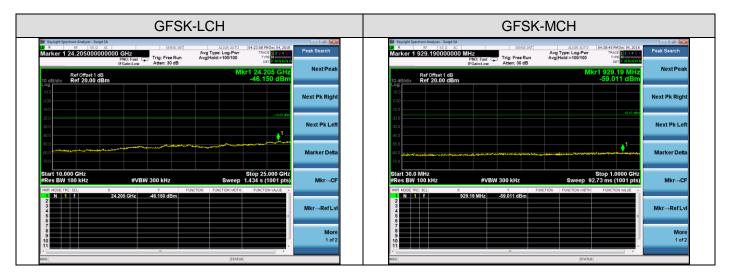
The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT Г

LIMITS AND MEA	SUREMENT RESULT	
Angliaghta Limita	Measurement Re	esult
Applicable Limits	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified	Refer Test Graph	PASS
in§15.209(a))		



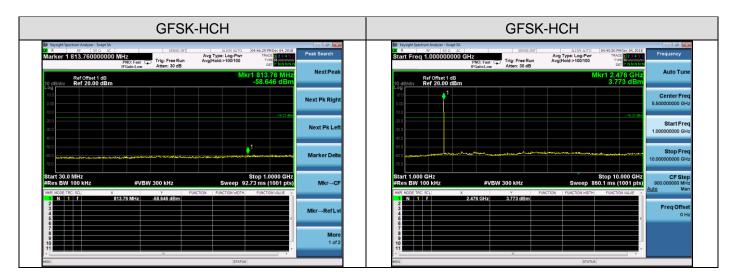




Keysight Spectrum Analyzer	- Swept SA	SENSE:INT	ALIGN AUTO	04:37:54 PMDec 04, 2018	
Start Freq 1.0000		Trig: Free Run	Avg Type: Log-Pwr Avg[Hold:>100/100	TRACE 123450 TYPE MWWWW DET PNNNNN	Frequency
Ref Offset 10 dB/div Ref 20.0	1 dB 10 dBm		Μ	lkr1 2.440 GHz 3.544 dBm	Auto Tur
10.0 0.00	1				Center Fre 5.50000000 GF
-10.0				-16.47 dBn	Start Fre
-40.0					Stop Fre
-60.0		A CONTRACTOR OF	n na se and ange a the Child Child of the million of the second second second second second second second second	inen dan serie and and a series of the serie	10.000000000 GF
Start 1.000 GHz #Res BW 100 kHz	- #V	BW 300 kHz	Sweep 86	Stop 10.000 GHz 50.1 ms (1001 pts)	CF Ste 900.000000 MH Auto Ma
MKR MODE TRC SCL	× 2.440 GHz	Y F 3.544 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
3 4 5				,	Freq Offs 0 F
6					

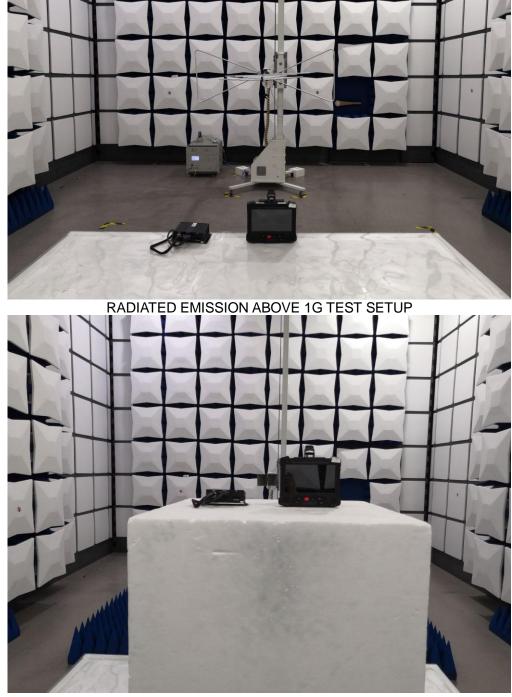






	GFSI	K-HCH	
Keysight Spectrum Analyzer - Swept SA B RF S0 Ω AC N RF S0 Ω AC AC <td>OGHZ PNO: Fast Trig: Free Run EfGain:Low Atten: 30 dB</td> <td>ALIGN AUTO 04:49:44 PM Dec 04, 2018 Avg Type: Log-Pwr TRACE 2:23 d to twg Hold:>100/100 TyPE DET 2:4111111</td> <td>Peak Search</td>	OGHZ PNO: Fast Trig: Free Run EfGain:Low Atten: 30 dB	ALIGN AUTO 04:49:44 PM Dec 04, 2018 Avg Type: Log-Pwr TRACE 2:23 d to twg Hold:>100/100 TyPE DET 2:4111111	Peak Search
Ref Offset 1 dB 10 dB/div Ref 20.00 dBm		Mkr1 24.760 GHz -45.788 dBm	Next Peak
10.0			Next Pk Right
-20.0		-16.23 dbg	Next Pk Left
-50.0 -60.0		a martine and a second	Marker Delta
Start 10.000 GHz #Res BW 100 kHz	#VBW 300 kHz	Stop 25.000 GHz Sweep 1.434 s (1001 pts)	Mkr→CF
MAR MODE TRC SCL X	.760 GHz 45.798 dBm	FUNCTION WIDTH FUNCTION VALUE F	Mkr→RefLvl
7 8 9 9 10 11			More 1 of 2
MSG	"	STATUS	

----END OF REPORT----



APPENDIX A: PHOTOGRAPHS OF TEST SETUP RADIATED SPURIOUS EMISSION

