

FCC & ISED Radio Test Report

FCC ID: 2AP8SK6K IC: 24032-K6K

The report concerns: Original Grant

Report Reference No	22EFSS07058 07591
Date Sample(s) Received:	2022-08-18
Date of Tested:	From 2022-08-18 to 2022-08-29
Date of issue:	2022-08-29
Testing Laboratory	DongGuan ShuoXin Electronic Technology Co., Ltd.
Address	Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

Applicant's name:	SIG SAUER INC.
Address	27100 SW Parkway Avenue, Wilsonville, Oregon 97070, USA.
Manufacturer	SIG SAUER INC.

Equipment		
	••••	

Model

Ratings:

Laser Rangefinder



KILO6K HD Input: DC 3V Output: --

Test Engineer:

Blue Qiu

Responsible Engineer :

Smile Worng

gwang.

Authorized Signatory:

King Wang



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1 TEST REPORT DECLARE

Applicant	SIG SAUER INC.
Address	27100 SW Parkway Avenue, Wilsonville, Oregon 97070, USA.
Manufacturer	SIG SAUER INC.
Address	27100 SW Parkway Avenue, Wilsonville, Oregon 97070, USA.
Factory	ASIA OPTICAL CO., INC.
Address	No. 22-3, South 2nd Rd., Tanzi Dist., Taichung City 427058, Taiwan (R.O.C.)
Equipment	Laser Rangefinder
Model No.	KILO6K HD
Trade Mark	SID
Standard	FCC Part15, Subpart C (15.247) RSS-247 Issue 2, Feb. 2017 RSS-Gen Issue 5, Mar. 2019 ANSI C63.10-2013

We Declare:

The equipment described above is tested by DongGuan ShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuan ShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.



2 SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Standard(s) Section		Test Item	Judgment	Remark
FCC	ISED	Test item	oudgment	Kemark
15.207	RSS-Gen8.8	AC Power Line Conducted Emissions	N/A	
15.247(d) 15.205(a) 15.209(a)	RSS-247 5.5 RSS-Gen8.9 RSS-Gen8.10	Radiated Emissions	PASS	
15.247(a)(2)	RSS-247 5.2 (a) RSS-Gen6.7	Bandwidth	PASS	
15.247(b)(3)	RSS-247 5.4 (d)	Maximum Output Power	PASS	
15.247(d)	RSS-247 5.5	ConductedSpurious Emission	PASS	
15.247(e)	RSS-247 5.2 (b)	Power Spectral Density	PASS	
-	RSS-Gen 6.11	Frequency Stability	PASS	
15.203	-	Antenna Requirement	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable to this device.
- (2) The device what use a permanently attached antenna were considered sufficient tocomply with the provisions of 15.203.



2.1 MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Uncertainty for Conduction emission test (9kHz-150kHz)	3.7 dB
Uncertainty for Conduction emission test (150kHz-30MHz)	3.3 dB
Uncertainty for Padiation Emission test (2011, 2001, 147)	4.60 dB (Polarize: V)
Uncertainty for Radiation Emission test (30MHz-200MHz)	4.60 dB (Polarize: H)
Upportainty for Padiation Emission toot (200MHz 10Hz)	6.10 dB (Polarize: V)
Uncertainty for Radiation Emission test (200MHz-1GHz)	5.08 dB (Polarize: H)
Upportainty for Padiation Emission test (10Hz 60Hz)	5.01 dB (Polarize: V)
Uncertainty for Radiation Emission test (1GHz-6GHz)	5.01 dB (Polarize: H)
Upportainty for Dadiation Emission toot (CCUT 19CUT)	5.26 dB (Polarize: V)
Uncertainty for Radiation Emission test (6GHz-18GHz)	5.26 dB (Polarize: H)
Uppertointy for Dediction Emission test (1901 - 4001 -)	5.06 dB (Polarize: V)
Uncertainty for Radiation Emission test (18GHz-40GHz)	5.06 dB (Polarize: H)
Uncertainty for radio frequency	±0.048kHz
Uncertainty for conducted RF Power	±0.32dB

Note:

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

Test Facility:

The Test site used by DongGuan ShuoXin Electronic Technology Co., Ltd. to collect test data is located on the Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

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

Item	Registration No.	Expiration Date
CNAS	L3098	2024-08-27
A2LA	4893.01	2022-08-30
Innovation, Science and Economic Development Canada (ISED)	11033A	2022-08-30
Federal Communications Commission (FCC)	171688 Designation No.:CN1235	2022-08-30



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Laser Rangefinder	
Brand Name	SD	
Test Model	KILO6K HD	
Series Model	N/A	
Model Difference(s)	N/A	
Hardware Version	V1.0	
Software Version	V1.0	
Power Source	Supplied from Battery.	
Power Rating	DC 3V	
Operation Frequency	2402 MHz ~ 2480 MHz	
Modulation Technology	GFSK	
Bit Rate of Transmitter	1Mbps	
Antenna Information	Antenna Type:Maximum Peak Gain:FPCB1.55dBi	
Max. Output Power	-0.918dBm(0.000809 W) 1Mbps	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.



2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480



3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description	
Mode 1	BLE 1M TX Modenote (1)	

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 3	BLE 1M TX Mode Channel 19

Radiated emissions test - Above 1GHz		
Final Test Mode Description		
Mode 1	BLE 1M TX Modenote (1)	

Conducted test		
Final Test Mode	Description	
Mode 1	BLE 1M TX Modenote (1)	

Note:

(1) The measurements are performed at the high, middle, low available channels.

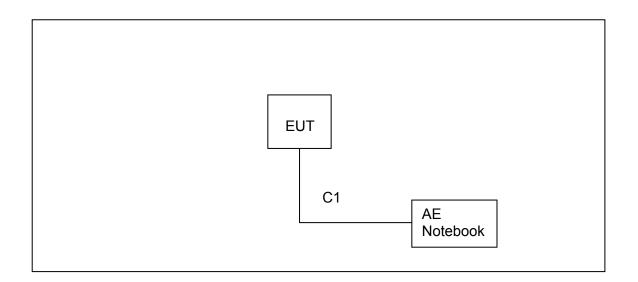
3.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

Test Software		nRFgo	
Frequency (MHz)	2402	2440	2480
Parameters-1Mbps	N/A	N/A	N/A
Parameters-2Mbps	N/A	N/A	N/A



3.4 BLOCK DIAGRAM SHOWINGTHECONFIGURATIONOFSYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
AE	Notebook	ACER	MS2367	32807810766

Item	Cable Type	Shielded Type	Ferrite Core	Length
C1	DC Cable	NO	NO	0.8m

3.6 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage
AC Power Line Conducted Emissions	/	/	1
Radiated Emissions-9K-30MHz	23.9°C	63%	DC 3V
Radiated Emissions-30 MHz to 1GHz	23.9°C	63%	DC 3V
Radiated Emissions-Above 1000 MHz	23.9°C	63%	DC 3V
Bandwidth	24.1°C	53%	DC 3V
Maximum Output Power	24.1°C	53%	DC 3V
ConductedSpurious Emission	24.1°C	53%	DC 3V
Power Spectral Density	24.1°C	53%	DC 3V



4 RADIATED EMISSION TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a) and RSS-Gen 8.10, then the 15.209(a) and RSS-Gen 8.9limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-30 MHz)

Frequency	Magnetic field strength (H-Field)	Measurement Distance
(MHz)	(μA/m)	(meters)
0.009-0.490	6.37/F(kHz)	300
0.490-1.705	6.37/F(kHz)	30
1.705-30.0	0.08	30

LIMITS OF RADIATED EMISSION MEASUREMENT (30 MHz-1000MHz)

Frequency	Field Strength	
(MHz)	(µV/m at 3m)	
30-88	100	
88-216	150	
216-960	200	
Above 960	500	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C and RSS-247.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. The test result is calculated as the following:
 - (1) Result = Reading + Correct Factor
 - (2) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
 - (3) Margin = Result Limit

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value
(Emission in restricted band)	RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

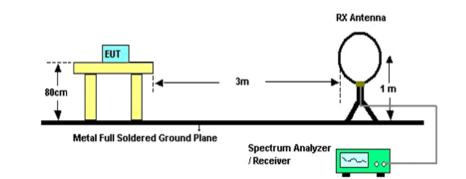


4.3 MEASUREMENT INSTRUMENTS LIST

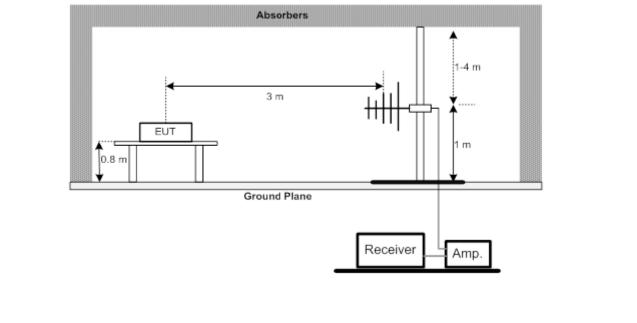
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	12/17/2022
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/16/2022
3	Loop antenna	SCHWARZBECK K	FMZB1519	1519-062	12/17/2022
4	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	08/05/2022
5	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D 1065	04/18/2023
6	Preamplifier Amplifier	HP	8447F	3113A05680	12/19/2022
7	PRE-AMPLIFIER	CY	EMC011830	980136	04/18/2023
8	RF Cable	R&S	Test Cable 4	4	12/19/2022
9	RF Cable	R&S	Test Cable 5	5	12/19/2022
10	RF Cable	R&S	Test Cable 9	9	04/18/2023
11	RF Cable	R&S	Test Cable 10	10	12/19/2022
12	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

4.4 TESTSETUP

9 kHz-30 MHz

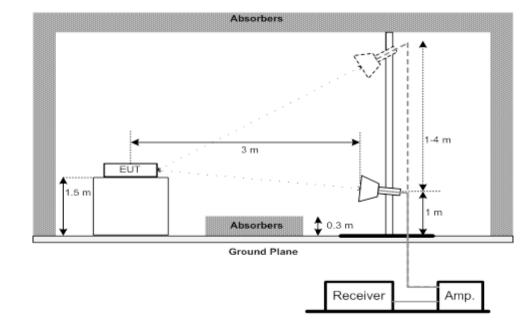


30 MHz to 1 GHz









4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



4.6 TEST RESULT- 9kHz TO 30MHz

Toot	Mode:	
IESL	woue.	

BLE 1M TX Mode Channel 19

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				Р
				Р

Note:

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

Distance extrapolation factor =20 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor



4.7 TEST RESULT- 30MHz TO 1000MHz BLE 1M TX Mode Channel 19 Test Mode : Vertical 80.0 dBuV/m Limit1: Margin: 40 **4** × ж way was hard way you was the most stranger An March March Øh, 0.0 30.000 60 70 80 (MHz) 300 400 500 600 700 1000.000 40 50 Reading Correct Antenna Table Measure-Over Limit No. Mk. Freq. Level Factor Height Degree ment MHz dBuV dB dBuV/m dB/m dB Detector cm degree Comment 1 39.4371 22.94 40.00 -29.98 QP 100 -12.92 10.02 112 2 132.6850 28.34 -11.99 16.35 43.50 -27.15 QP 300 51 601.4265 30.49 27.14 46.00 -18.86 QP 42 3 -3.35 100 4 701.7610 36.10 -1.56 34.54 46.00 -11.46 QP 200 325

*:Maximum data x:Over limit !:over margin

27.82

27.95

2.42

4.56

30.24

32.51

46.00

54.00

-15.76

-21.49

QP

QP

100

100

114 252

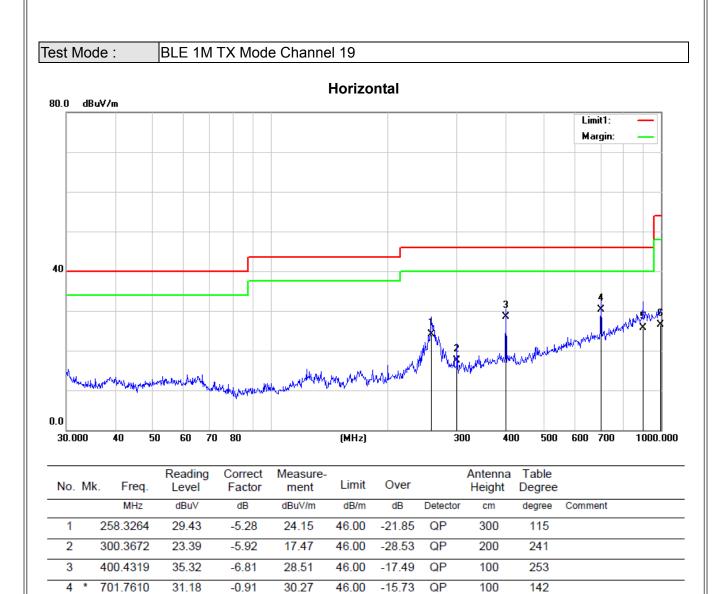
5

6

900.1473

1000.000





46.00

54.00

25.61

26.59

-20.39

-27.41

QP

QP

100

100

55

223

22.22

22.07

3.39

4.52

900.1473

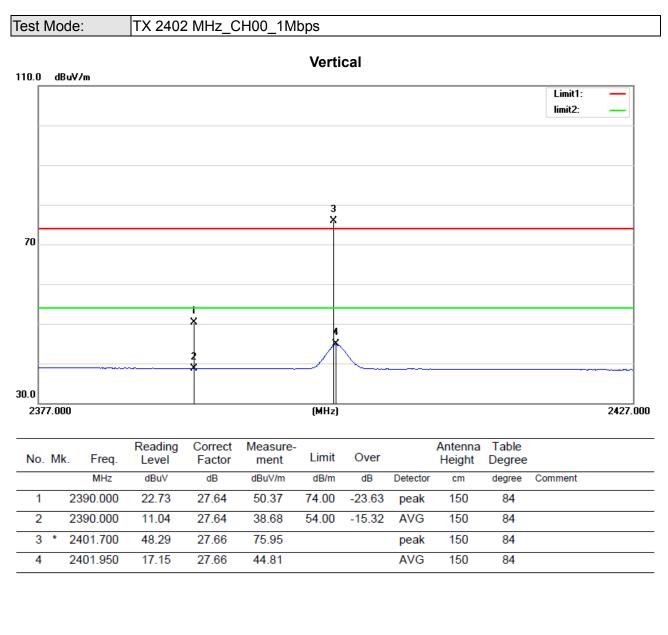
996.4995

5

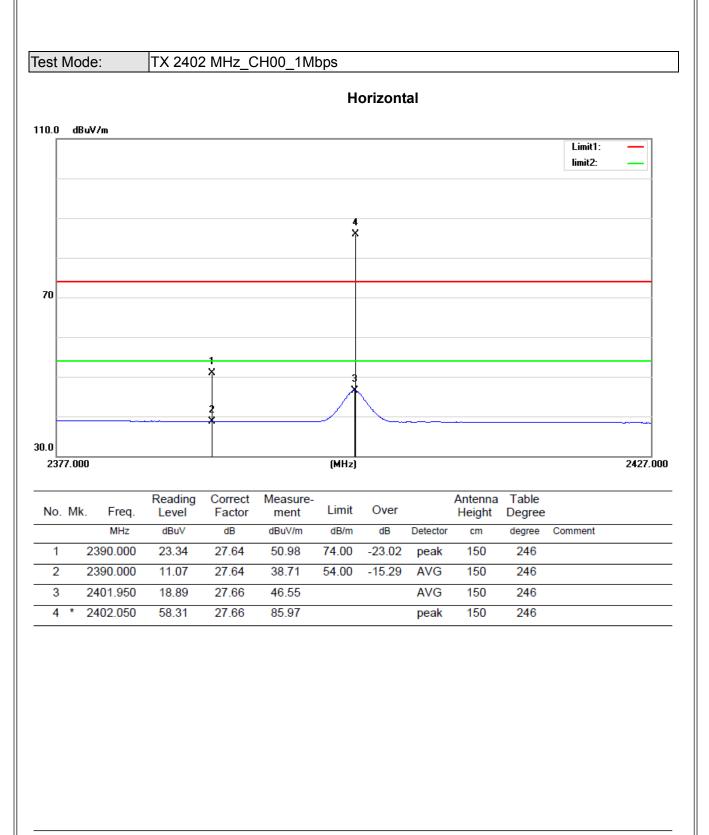
6



4.8 TEST RESULT- ABOVE 1000MHz(BAND EDGE)

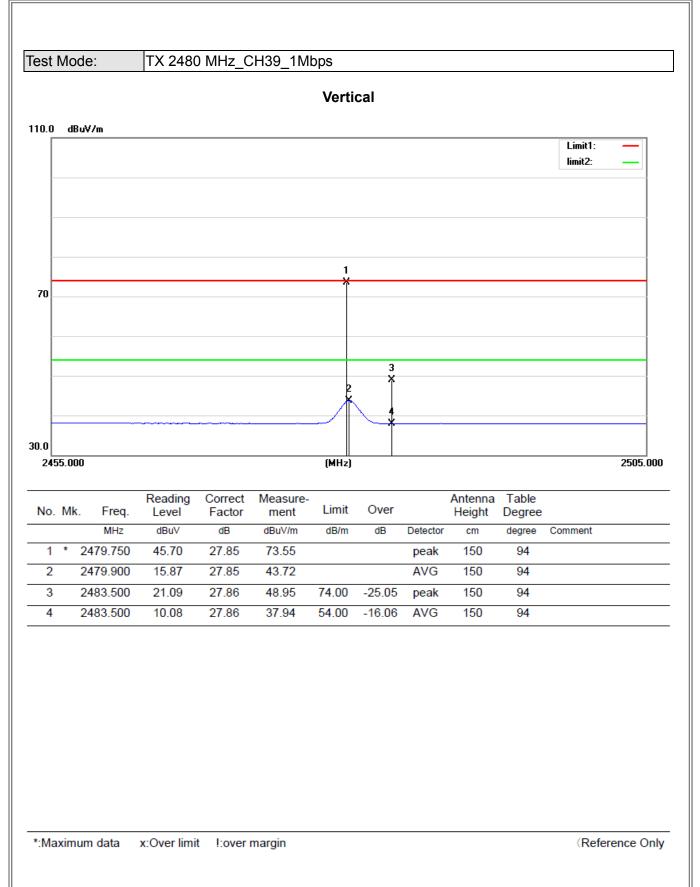




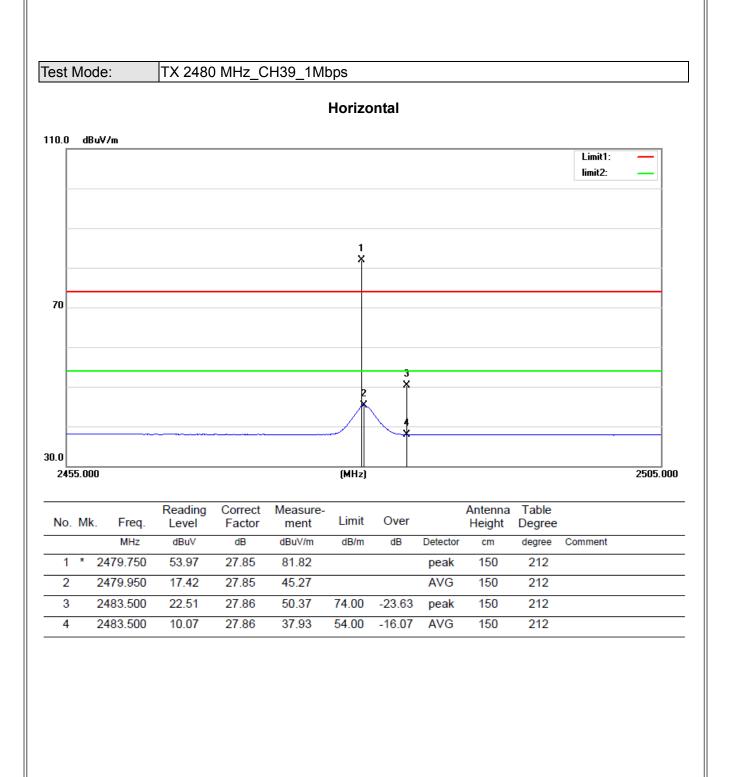


*:Maximum data x:Over limit !:over margin





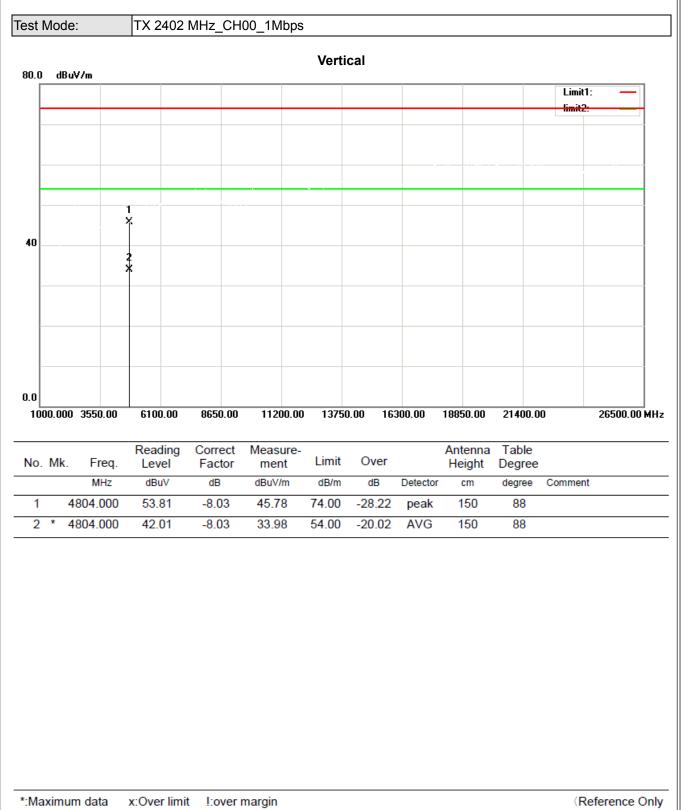




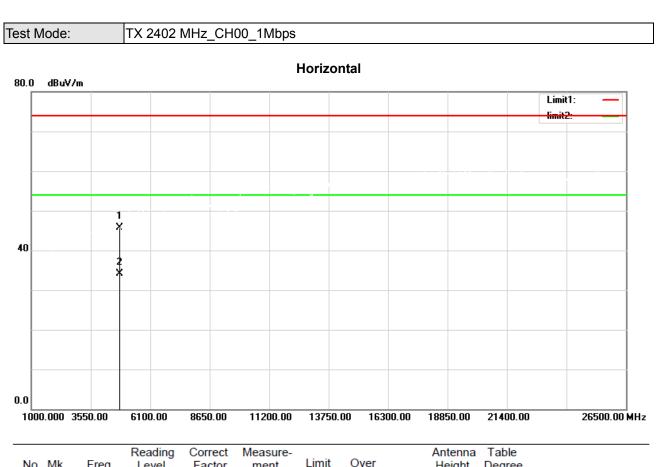
*:Maximum data x:Over limit !:over margin



4.9 TEST RESULTS - ABOVE 1000MHz(HARMONIC)





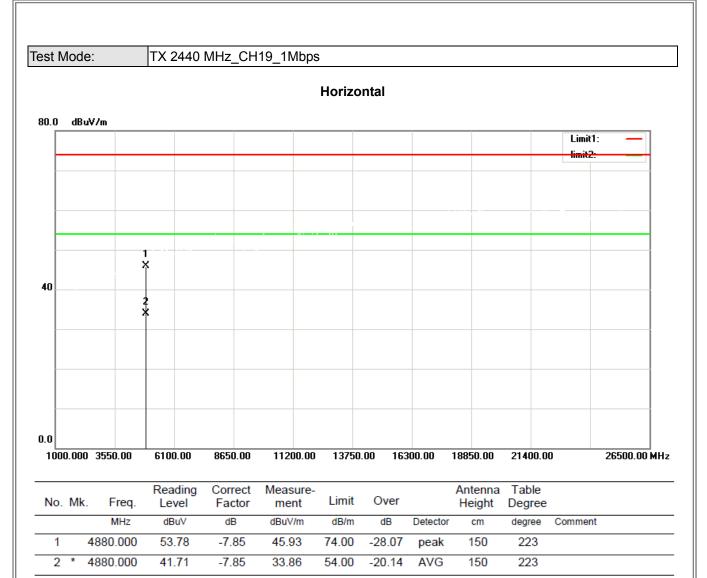


NO.	MK.	⊢req.	Level	Factor	ment	LIIIIII	Over		Height	Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	4	4804.000	53.74	-8.03	45.71	74.00	-28.29	peak	150	236	
2	* /	4804.000	42.22	-8.03	34.19	54.00	-19.81	AVG	150	236	

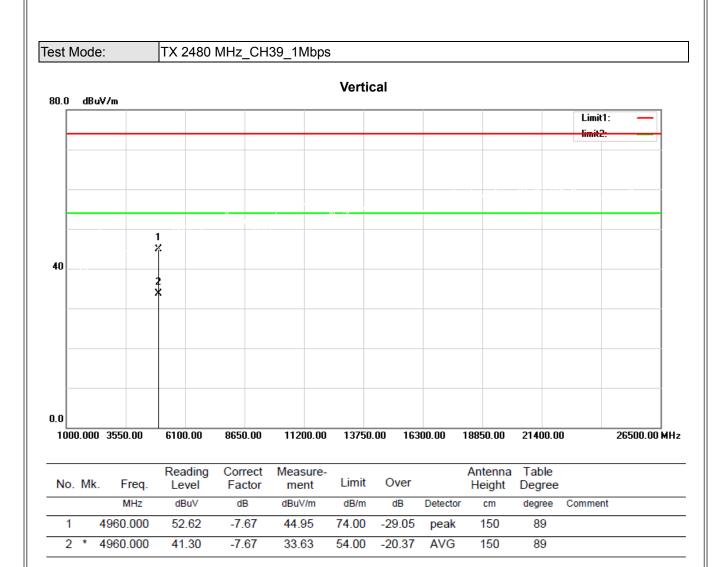






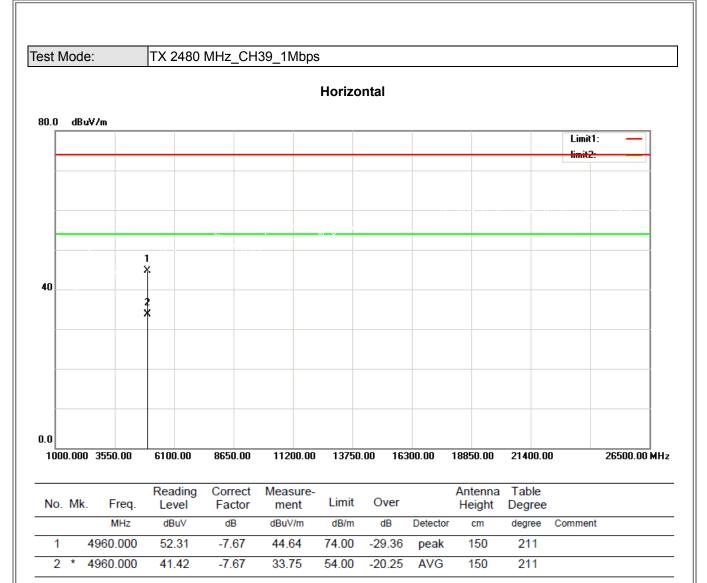






*:Maximum data x:Over limit !:over margin







5 BANDWIDTH TEST

5.1 LIMIT

FCC Part15, Subpart C (15.247)& RSS-Gen/ RSS-247				
Section Test Item Limit				
15.247(a)(2) RSS-Gen6.7 RSS-247 5.2 (a)	Bandwidth	>= 500 kHz (6dB bandwidth)		

5.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

For 6dB Bandwidth RBW= 100 kHz, VBW=300 kHz, Sweep time =Auto. For 99% Bandwidth RBW=30kHz, VBW=100kHz, Sweep time =Auto for 1Mbps. RBW=100kHz, VBW=300kHz, Sweep time =Auto for 2Mbps.

5.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2023/05/26
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TESTRESULTS

	TX Mode_1Mbps					
Channel	Frequency (MHz)	6 dB bandwidth (MHz)	99%OBW (MHz)	Result		
CH00	2402	0.6902	1.0431	PASS		
CH19	2440	0.6904	1.0460	PASS		
CH39	2480	0.6852	1.0477	PASS		





6 MAXIMUM OUTPUT POWER

6.1 LIMIT

FCC Part15, Subpart C (15.247)&RSS-247				
Section Test Item Limit				
15.247(b)(3) RSS-2475.4 (d)	Maximum Output Power	1 watt or 30dBm		

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.1.3(for peak power)ofANSI C63.10-2013.

6.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2023/05/26
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.



6.6 TESTRESULTS

		TX Mode_1Mbps		
Channel	Frequency	Output Power	Output Power	Deput
Channel	(MHz)	(dBm)	(W)	Result
CH00	2402	-1.398	0.000725	PASS
CH19	2440	-0.918	0.000809	PASS
CH39	2480	-1.073	0.000781	PASS
Limit	30dBm / 1W			





7 CONDUCTED SPURIOUS EMISSION

7.1 LIMIT

For FCC

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 Output Power limits. If the transmitter complies with the Output 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 Section 15.209(a) is not required.

For ISED

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting : RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

7.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2023/05/26
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

7.4 TEST SETUP

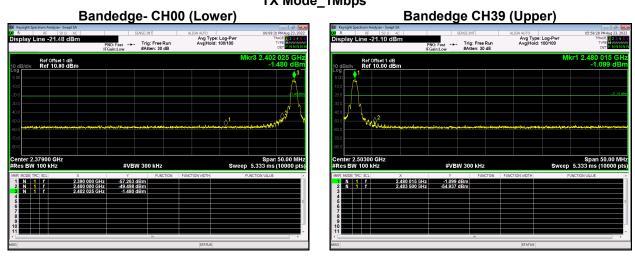
EUT	SPECTRUM
	ANALYZER

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5unless otherwise a special operating condition is specified in the follows during the testing.

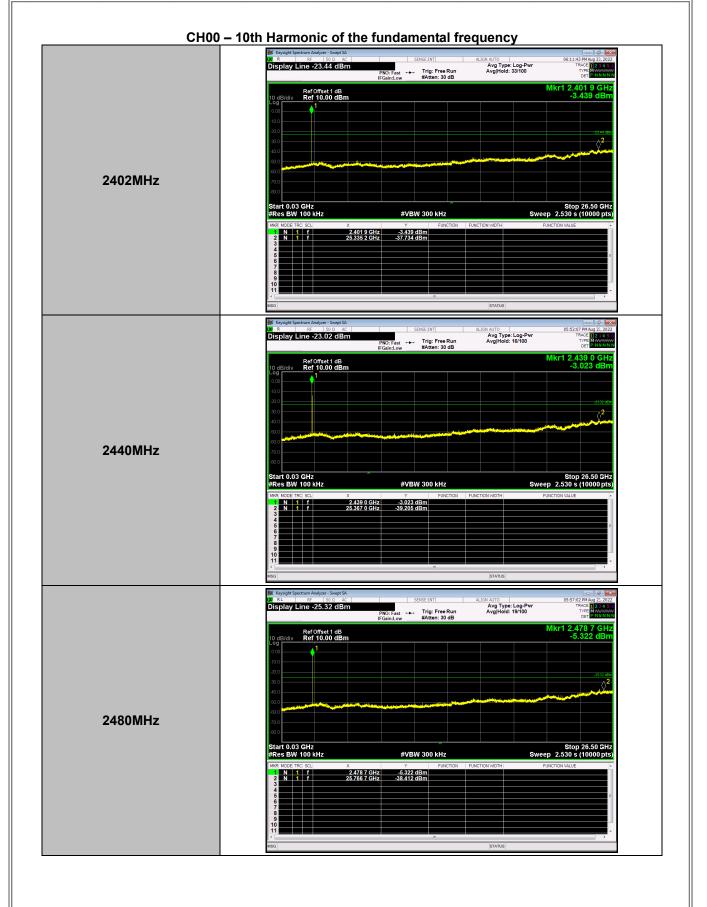


7.6 TEST RESULTS



TX Mode_1Mbps







8 POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part15, Subpart C (15.247)&RSS-247		
Section Test Item Limit		
15.247(e) RSS-2475.2 (b)	Power Spectral Density	8 dBm (in any 3 kHz)

8.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. Spectrum Setting: RBW=3 kHz, VBW=10kHz, Sweep time = auto.

8.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2023/05/26
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

8.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

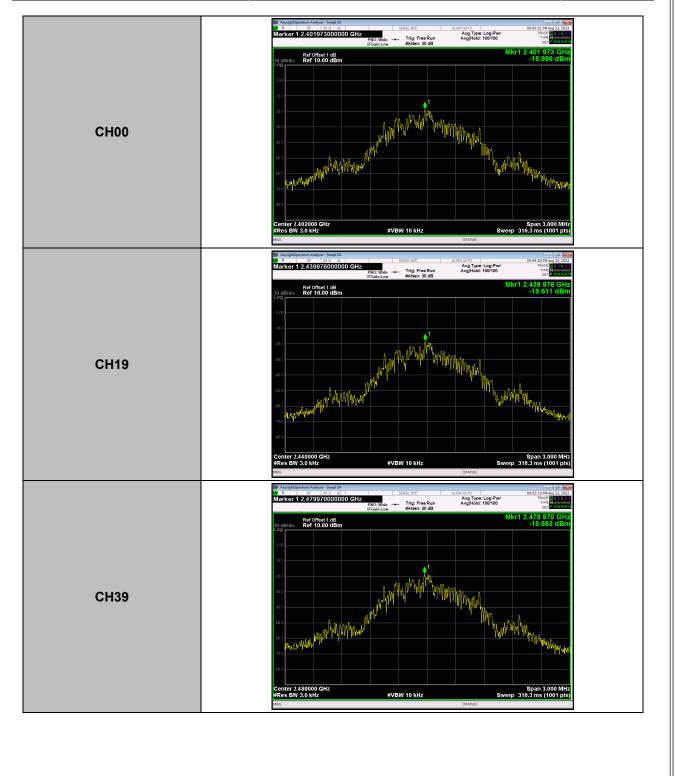
8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.



8.6 TEST RESULTS

		TX Mode_1Mbps		
Channel	Frequency (MHz)	Power SpectralDensity (dBm/3 kHz)	Limit: <dbm 3khz<="" td=""><td>Result</td></dbm>	Result
CH00	2402	-18.986	8	PASS
CH19	2440	-18.611	8	PASS
CH39	2480	-18.863	8	PASS





9 FREQUENCY STABILITY MEASUREMENT

9.1 LIMIT

	R	SS-Gen	
Section	Test Item	Limit	Frequency Range (MHz)
RSS-Gen 6.11	Frequency Stability	Specified in the user's manual	2402-2480

9.2 TEST PROCEDURE

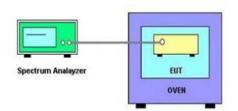
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulationemissionsbandwidth
RBW	10 kHz
VBW	10kHz
Sweep Time	Auto

9.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2023/05/26
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A
4	Temperature conditioning	Guan Jian.HTH1000	-20-130 ℃	GJ1000-10D001	N/A
5	DC Power Supply	G.KE	IPR-10010D	010931954	N/A

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



9.6 TEST RESULTS

	Temper	rature vs. Frequency Stability
Voltage	Temperature	Measurement Frequency (MHz)
	(°C)	2402
3V	-20	2401.99574
50	25	2401.99358
	50	2401.99517
2.1V	25	2401.99638
Max. Deviation (MHz)		-0.00642
Max. Deviation (ppm)		-2.67

Note: 2.1V is the end point voltage, and products below 2.1V will cease working.

END OF TEST REPORT