

RADIO TEST REPORT

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Report No.:STS2009291W02

Issued for

MOVEON TECHNOLOGY LIMITED

World Trade Plaza-A block#3201-3202, Fuhong Road, Futian, Shenzhen, China

Product Name:	SMART PHONE	
Brand Name:	KRONO	
Model Name:	NET_ADVANCE	
Series Model:	I: N/A	
FCC ID:	2AFD9NETADVANCE	
Test Standard:	FCC Part 15.247	

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TEST RESULT CERTIFICATION

Applicant's Name	MOVEON TECHNOLOGY LIMITED
Address	World Trade Plaza-A block#3201-3202, Fuhong Road, Futian, Shenzhen, China
	MOVEON TECHNOLOGY LIMITED
Address	World Trade Plaza-A block#3201-3202, Fuhong Road, Futian, Shenzhen, China
Product Description	
Product Name:	SMART PHONE
Brand Name:	KRONO
Model Name	NET_ADVANCE
Series Model:	N/A
Test Standards	FCC Part15.247
Test Procedure:	ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of receipt of test item	25 Sept. 2020
Date (s) of performance of tests:	25 Sept. 2020 ~ 10 Oct. 2020
Date of Issue	10 Oct. 2020
Test Result	Pass

(Vita Li)



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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	10 Oct. 2020	STS2009291W02	ALL	Initial Issue



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

	FCC Part 15.247,Subpart C					
Standard Section	Lest Item					
15.207	Conducted Emission	PASS				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b)(3)	Output Power	PASS				
15.209	Radiated Spurious Emission	PASS				
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS				
15.247 (e)	Power Spectral Density	PASS				
15.205	Restricted bands of operation PASS					
Part 15.247(d)/part 15.209(a)	Band Edge Emission PASS					
15.203	Antenna Requirement	PASS				

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.

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1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District,Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 30-1GHz	±5.6dB
4	All emissions, radiated 1G-6GHz	±5.5dB
5	All emissions, radiated>6G	±5.8dB
6	Conducted Emission (9KHz-150KHz)	±3.37dB
7	Conducted Emission (150KHz-30MHz)	±3.83dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	SMART PHONE		
Trade Name	KRONO		
Model Name	NET_ADVANCE		
Series Model	N/A		
Model Difference	N/A		
Product Description	The EUT is a SMART PH Operation Frequency: Modulation Type: Radio Technology: Bluetooth Version: Bluetooth Configuration: Number Of Channel: Antenna Designation: Antenna Gain (dBi)	2402~2480 MHz GFSK BLE 4.0	
Channel List	Please refer to the Note 2	2.	
Adapter	Input: AC 100-240V 50/60 Output: DC 5V 1A	0Hz 0.2A	
Battery	Rated Voltage: 3.85V Charge Limit: 4.4V Capacity: 4500mAh		
Hardware version number	V2.1		
Software version number	N/A		
Connecting I/O Port(s)	Please refer to the Note 1	1	

Note:

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



2.								
	Channel List							
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
	00	2402	10	2422	20	2442	30	2462
	01	2404	11	2424	21	2444	31	2464
	02	2406	12	2426	22	2446	32	2466
	03	2408	13	2428	23	2448	33	2468
	04	2410	14	2430	24	2450	34	2470
	05	2412	15	2432	25	2452	35	2472
	06	2414	16	2434	26	2454	36	2474
	07	2416	17	2436	27	2456	37	2476
	08	2418	18	2438	28	2458	38	2478
	09	2420	19	2440	29	2460	39	2480

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	KRONO	NET_ADVANCE	PIFA	N/A	0 dBi	BLE ANT



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2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 Mbps/GFSK
Mode 2	TX CH19(2440MHz)	1 Mbps/GFSK
Mode 3	TX CH39(2480MHz)	1 Mbps/GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

(3) The battery is fully-charged during the radited and RF conducted test.

For AC Conducted Emission

	Test Case	
AC Conducted Emission	Mode 4 : Keeping BT TX	

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	Ant Gain(dBi)	Power Class	Software For Testing
BLE	BLE	GFSK	0	Default	Engineering mode

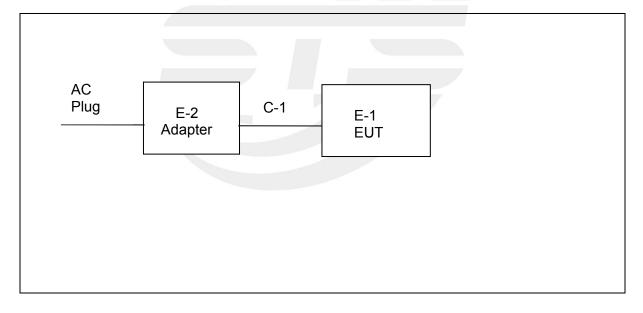


2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test







2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Adapter	KRONO	NET_ADVANCE	N/A	N/A
C-1	DC Cable	N/A	N/A	100cm	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in ^rLength ^a column.



2.6 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Test Receiver	R&S	ESCI	101427	2020.09.30	2021.09.29	
Signal Analyzer	R&S	FSV 40-N	101823	2020.09.30	2021.09.29	
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10	
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01	
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2018.10.19	2021.10.18	
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10	
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2020.09.30	2021.09.29	
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2020.09.30	2021.09.29	
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2020.09.30	2021.09.29	
Temperature & Humidity	HH660	Mieo	N/A	2020.09.30	2021.09.29	
Turn table	EM	SC100_1	60531	N/A	N/A	
Antenna mast	EM	SC100	N/A	N/A	N/A	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2020.09.30	2021.09.29
LISN	R&S	ENV216	101242	2020.09.30	2021.09.29
LISN	EMCO	3810/2NM	23625	2020.09.30	2021.09.29
Temperature & Humidity	HH660	Mieo	N/A	2020.09.30	2021.09.29
Test SW	FARAD		EZ-EMC(Ver.S	TSLAB-03A1 CE)	

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
			MY55520005	2020.09.30	2021.09.29
MIMO Power	Keysight	U2021XA	MY55520006	2020.09.30	2021.09.29
measurement test Set	reysign	02021774	MY56120038	2020.09.30	2021.09.29
			MY56280002	2020.09.30	2021.09.29
Signal Analyzer	Agilent	N9020A	MY51110105	2020.03.05	2021.03.04
Temperature & Humidity	HH660	Mieo	N/A	2020.09.30	2021.09.29
Test SW	FARAD		LZ-RF /L	zRf-3A3	

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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.

	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

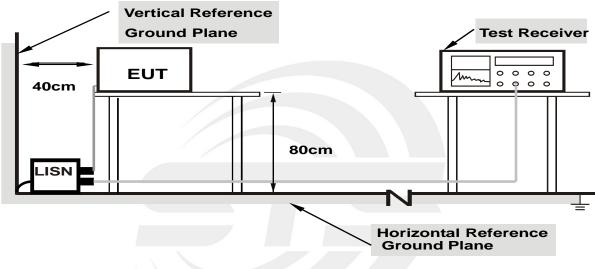
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.2 TEST PROCEDURE

3.3 TEST SETUP

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.5 TEST RESULTS

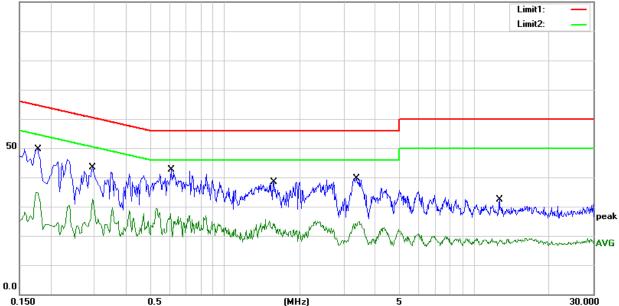
Temperature:	27.3(C)	Relative Humidity:	65%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

No.	Frequen cy	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1780	29.45	20.23	49.68	64.58	-14.90	QP
2	0.1780	14.76	20.23	34.99	54.58	-19.59	AVG
3	0.2940	22.61	20.69	43.30	60.41	-17.11	QP
4	0.2940	11.84	20.69	32.53	50.41	-17.88	AVG
5	0.6100	22.22	20.36	42.58	56.00	-13.42	QP
6	0.6100	7.17	20.36	27.53	46.00	-18.47	AVG
7	1.5700	18.20	20.10	38.30	56.00	-17.70	QP
8	1.5700	4.11	20.10	24.21	46.00	-21.79	AVG
9	3.3700	19.71	19.97	39.68	56.00	-16.32	QP
10	3.3700	4.85	19.97	24.82	46.00	-21.18	AVG
11	12.6060	12.26	20.15	32.41	60.00	-27.59	QP
12	12.6060	-1.63	20.15	18.52	50.00	-31.48	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values
- 2. Margin = Result (Result = Reading + Factor)–Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)





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Temperature:	27.3(C)	Relative Humidity:	65%RH
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 4		

No.	Frequen cy	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1740	28.95	20.24	49.19	64.77	-15.58	QP
2	0.1740	13.72	20.24	33.96	54.77	-20.81	AVG
3	0.7300	27.13	20.24	47.37	56.00	-8.63	QP
4	0.7300	8.37	20.24	28.61	46.00	-17.39	AVG
5	1.3980	24.44	20.12	44.56	56.00	-11.44	QP
6	1.3980	3.38	20.12	23.50	46.00	-22.50	AVG
7	3.3460	25.50	19.97	45.47	56.00	-10.53	QP
8	3.3460	3.99	19.97	23.96	46.00	-22.04	AVG
9	5.9620	19.84	19.89	39.73	60.00	-20.27	QP
10	5.9620	0.14	19.89	20.03	50.00	-29.97	AVG
11	29.3540	15.65	20.73	36.38	60.00	-23.62	QP
12	29.3540	1.23	20.73	21.96	50.00	-28.04	AVG

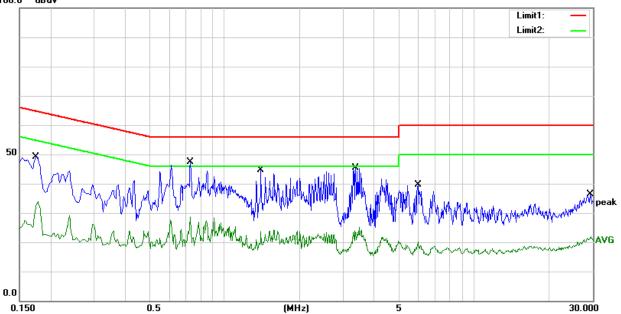
Remark:

1. All readings are Quasi-Peak and Average values

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV



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4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

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

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/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 (Above 1000MHz)

	(dBuV/m) (at 3M)			
FREQUENCY (MHz)	PEAK	AVERAGE		
Above 1000	74	54		

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

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For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz(Peak/QP/AV)		
Stop Frequency	150KHz/30MHz(Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP	
Start Frequency	30 MHz(Peak/QP)	
Stop Frequency	1000 MHz (Peak/QP)	
RB / VB (emission in restricted band)	120 KHz / 300 KHz	

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/AV	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)	
band)	1 MHz/1/T MHz(AVG)	

For Restricted band

Spectrum Parameter	Setting		
Detector	Peak/AV		
Start/Stap Eraguapay	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz		
RB / VB	1 MHz / 3 MHz(Peak)		
	1 MHz/1/T MHz(AVG)		

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Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

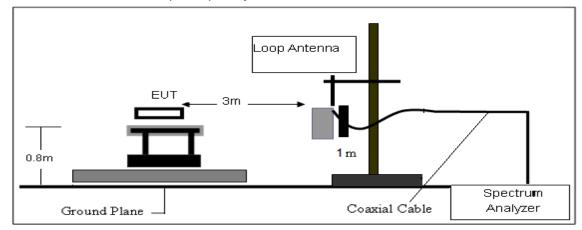
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

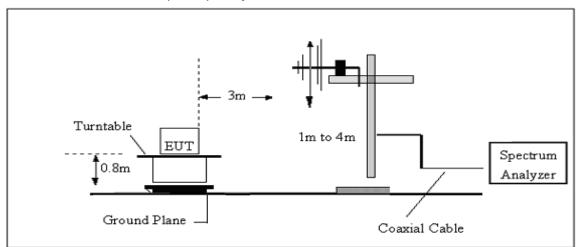


4.3 TEST SETUP

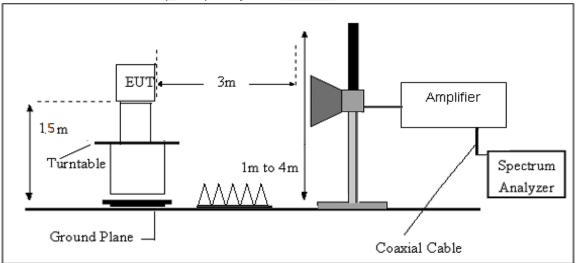
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



4.5 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

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG





4.6 TEST RESULTS

(Between 9KHz - 30 MHz)

Temperature:	23.2(C)	Relative Humidtity:	61%RH
Test Voltage:	DC 3.85V	Polarization:	
Test Mode:	TX Mode		

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

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 =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.





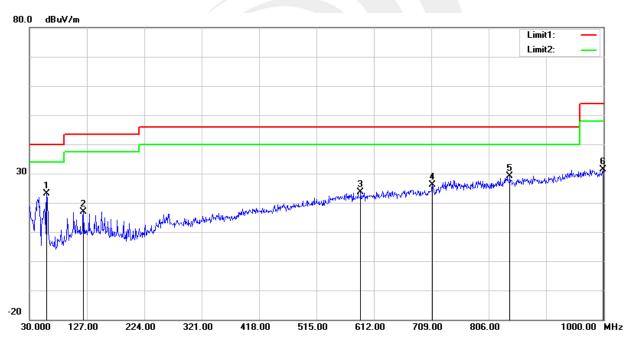
(30MHz -1000MHz)

Temperature:	23.2(C)	Relative Humidity:	61%RH		
Test Voltage:	DC 3.85V	Phase:	Horizontal		
Test Mode:	Mode 1/2/3 (Mode 2 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	59.1000	48.78	-25.73	23.05	40.00	-16.95	QP
2	121.1800	35.21	-18.32	16.89	43.50	-26.61	QP
3	589.6900	29.41	-5.83	23.58	46.00	-22.42	QP
4	710.9400	29.87	-3.80	26.07	46.00	-19.93	QP
5	841.8900	29.53	-0.42	29.11	46.00	-16.89	QP
6	999.0300	29.36	2.04	31.40	54.00	-22.60	QP

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





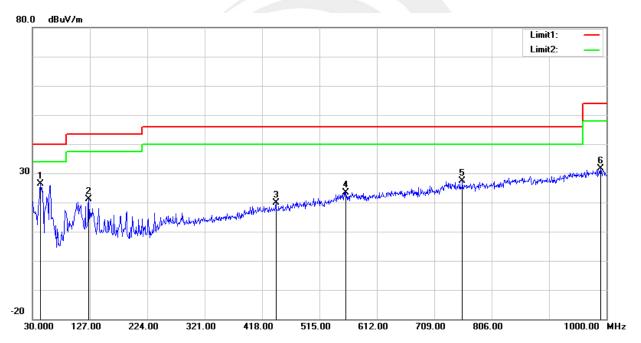
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Temperature:	23.2(C)	Relative Humidity:	61%RH		
Test Voltage:	DC 3.85V	Phase:	Vertical		
Test Mode:	Mode 1/2/3 (Mode 2 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	43.5800	46.20	-19.94	26.26	40.00	-13.74	QP
2	125.0600	39.45	-18.22	21.23	43.50	-22.27	QP
3	441.2800	29.92	-10.04	19.88	46.00	-26.12	QP
4	559.6200	29.00	-5.50	23.50	46.00	-22.50	QP
5	756.5300	29.60	-2.17	27.43	46.00	-18.57	QP
6	990.3000	29.49	2.05	31.54	54.00	-22.46	QP

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Shenzhen STS Test Services Co., Ltd.



(1GHz-25GHz) Spurious emission Requirements

GFSK

Frequency Me	ter		A						
T\ca	ding Amplifier	Loss	Antenna Factor	Orrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz) (dB	uV) (dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
			Low C	hannel (2402	MHz)				
3264.64 61	76 44.70	6.70	28.20	-9.80	51.96	74.00	-22.04	PK	Vertical
3264.64 50	81 44.70	6.70	28.20	-9.80	41.01	54.00	-12.99	AV	Vertical
3264.77 61	88 44.70	6.70	28.20	-9.80	52.08	74.00	-21.92	PK	Horizontal
3264.77 50	51 44.70	6.70	28.20	-9.80	40.71	54.00	-13.29	AV	Horizontal
4804.44 58	37 44.20	9.04	31.60	-3.56	54.81	74.00	-19.19	PK	Vertical
4804.44 49	14 44.20	9.04	31.60	-3.56	45.58	54.00	-8.42	AV	Vertical
4804.53 59	42 44.20	9.04	31.60	-3.56	55.86	74.00	-18.14	PK	Horizontal
4804.53 49	79 44.20	9.04	31.60	-3.56	46.23	54.00	-7.77	AV	Horizontal
5359.61 49	00 44.20	9.86	32.00	-2.34	46.66	74.00	-27.34	PK	Vertical
5359.61 40	36 44.20	9.86	32.00	-2.34	38.02	54.00	-15.98	AV	Vertical
5359.74 48	29 44.20	9.86	32.00	-2.34	45.95	74.00	-28.05	PK	Horizontal
5359.74 38	84 44.20	9.86	32.00	-2.34	36.50	54.00	-17.50	AV	Horizontal
7205.95 54	53 43.50	11.40	35.50	3.40	57.93	74.00	-16.07	PK	Vertical
7205.95 44	82 43.50	11.40	35.50	3.40	48.22	54.00	-5.78	AV	Vertical
7205.83 53	91 43.50	11.40	35.50	3.40	57.31	74.00	-16.69	PK	Horizontal
7205.83 44	55 43.50	11.40	35.50	3.40	47.95	54.00	-6.05	AV	Horizontal
			Middle	Channel (244	0 MHz)				
3264.63 61	57 44.70	6.70	28.20	-9.80	51.77	74.00	-22.23	PK	Vertical
3264.63 50	16 44.70	6.70	28.20	-9.80	40.36	54.00	-13.64	AV	Vertical
3264.75 61	64 44.70	6.70	28.20	-9.80	51.84	74.00	-22.16	PK	Horizontal
3264.75 50	95 44.70	6.70	28.20	-9.80	41.15	54.00	-12.85	AV	Horizontal
4880.51 58	28 44.20	9.04	31.60	-3.56	54.72	74.00	-19.28	PK	Vertical
4880.51 50	53 44.20	9.04	31.60	-3.56	46.97	54.00	-7.03	AV	Vertical
4880.43 59	24 44.20	9.04	31.60	-3.56	55.68	74.00	-18.32	PK	Horizontal
4880.43 49	96 44.20	9.04	31.60	-3.56	46.40	54.00	-7.60	AV	Horizontal
5359.71 49	22 44.20	9.86	32.00	-2.34	46.88	74.00	-27.12	PK	Vertical
5359.71 38	96 44.20	9.86	32.00	-2.34	36.62	54.00	-17.38	AV	Vertical
5359.76 47	87 44.20	9.86	32.00	-2.34	45.53	74.00	-28.47	PK	Horizontal
5359.76 38	92 44.20	9.86	32.00	-2.34	36.58	54.00	-17.42	AV	Horizontal
7320.90 54	35 43.50	11.40	35.50	3.40	57.75	74.00	-16.25	PK	Vertical
7320.90 43	78 43.50	11.40	35.50	3.40	47.18	54.00	-6.82	AV	Vertical
7320.88 54	51 43.50	11.40	35.50	3.40	57.91	74.00	-16.09	PK	Horizontal
7320.88 44	82 43.50	11.40	35.50	3.40	48.22	54.00	-5.78	AV	Horizontal



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				High C	hannel (248	0 MHz)				
3264.79	62.08	44.70	6.70	28.20	-9.80	52.28	74.00	-21.72	PK	Vertical
3264.79	51.38	44.70	6.70	28.20	-9.80	41.58	54.00	-12.42	AV	Vertical
3264.76	60.99	44.70	6.70	28.20	-9.80	51.19	74.00	-22.81	PK	Horizontal
3264.76	49.88	44.70	6.70	28.20	-9.80	40.08	54.00	-13.92	AV	Horizontal
4960.30	58.54	44.20	9.04	31.60	-3.56	54.98	74.00	-19.02	PK	Vertical
4960.30	49.69	44.20	9.04	31.60	-3.56	46.13	54.00	-7.87	AV	Vertical
4960.51	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Horizontal
4960.51	50.29	44.20	9.04	31.60	-3.56	46.73	54.00	-7.27	AV	Horizontal
5359.82	48.72	44.20	9.86	32.00	-2.34	46.38	74.00	-27.62	PK	Vertical
5359.82	39.47	44.20	9.86	32.00	-2.34	37.13	54.00	-16.87	AV	Vertical
5359.61	47.28	44.20	9.86	32.00	-2.34	44.94	74.00	-29.06	PK	Horizontal
5359.61	38.48	44.20	9.86	32.00	-2.34	36.14	54.00	-17.86	AV	Horizontal
7439.91	53.54	43.50	11.40	35.50	3.40	56.94	74.00	-17.06	PK	Vertical
7439.91	44.51	43.50	11.40	35.50	3.40	47.91	54.00	-6.09	AV	Vertical
7439.79	53.51	43.50	11.40	35.50	3.40	56.91	74.00	-17.09	PK	Horizontal
7439.79	44.33	43.50	11.40	35.50	3.40	47.73	54.00	-6.27	AV	Horizontal

Note:

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

Emission Level = Reading + Factor

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

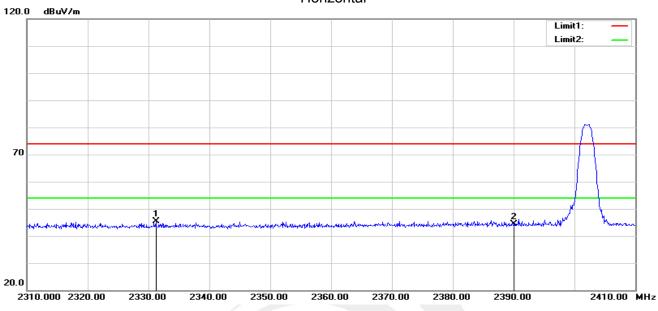




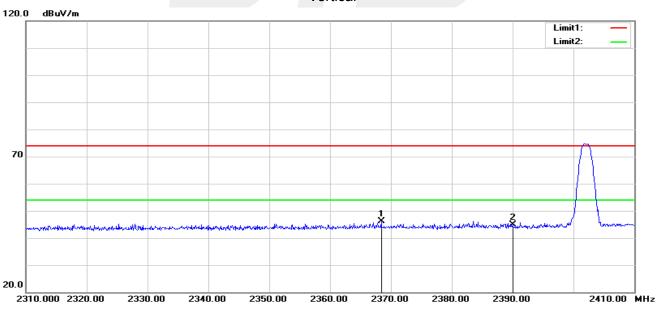
Report No.: STS2009291W02

4.6 TEST RESULTS (Restricted Bands Requirements)

GFSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2331.200	41.64	3.64	45.28	74.00	-28.72	peak
2	2390.000	40.10	4.34	44.44	74.00	-29.56	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2368.400	42.15	4.01	46.16	74.00	-27.84	peak
2	2390.000	40.43	4.34	44.77	74.00	-29.23	peak

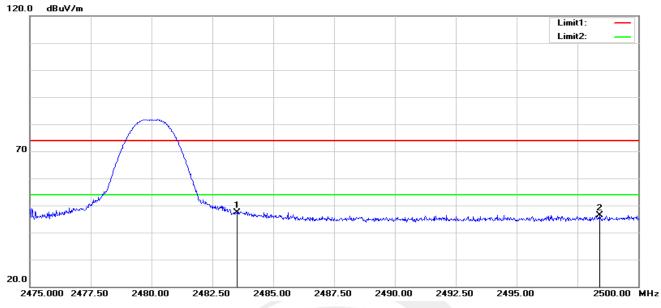
Vertical



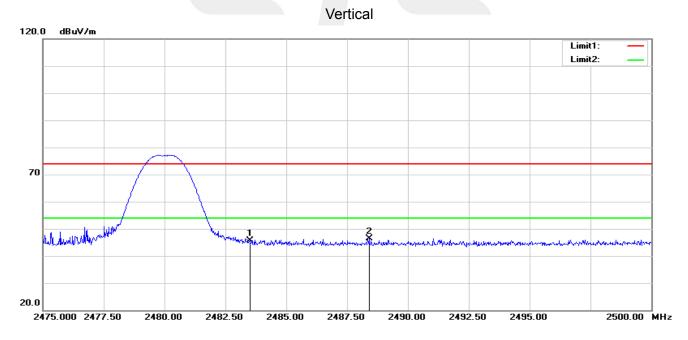
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GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	42.67	4.60	47.27	74.00	-26.73	peak
2	2498.425	41.80	4.64	46.44	74.00	-27.56	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	41.13	4.60	45.73	74.00	-28.27	peak
2	2488.400	41.79	4.62	46.41	74.00	-27.59	peak



5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stap Eraguanay	Lower Band Edge: 2300 – 2407 MHz
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

5.3 TEST SETUP



The EUT which is powered by the Battery, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	50%
Test Voltage:	DC 3.85V		TX Mode /CH00, CH19, CH39

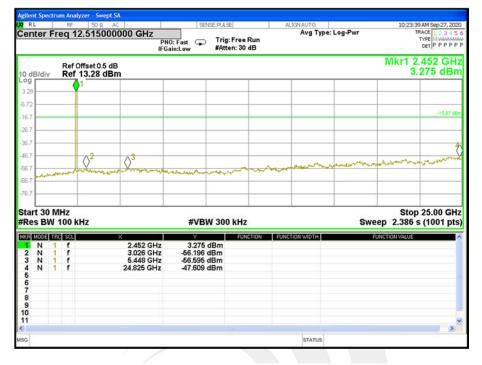
00 CH

enter	RF Frea		AC 00000 GHz	SENSE:PUL		ALIGNAUTO Avg Typ	e: Log-Pwr		3 AM Sep 27, 202 RACE 1 2 3 4 5
			PNC		: Free Run en: 30 dB				DET P P P P
		Offset 0.5 of f 13.67 df						Mkr1 2	.402 GH 671 dBr
odB/div	ке	1 13.07 0	5111						
3.67									
.33									-16.31 dE
6.3									-16.31 00
6.3									
6.3									0
6.3		\triangle^2	3					- makapanta	al mark
6.3	www.	1 Marthanen	and the second	-	and and	man			
6.3									
6.3									
tart 30 Res Bi		kHz		#VBW 300) kHz		Sw	Stop eep 2.386	25.00 GH s (1001 pt
KR MODE	TRC SCI		×	Y	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
1 N 2 N			2.402 GHz 3.051 GHz	3.671 dBm -56.872 dBm					
3 N 4 N	1 1		5.498 GHz 24.326 GHz	-56.942 dBm -46.804 dBm					
5			24.520 GH2	40.004 UBIII					
6 7									
8 9									
8 9 0 1									

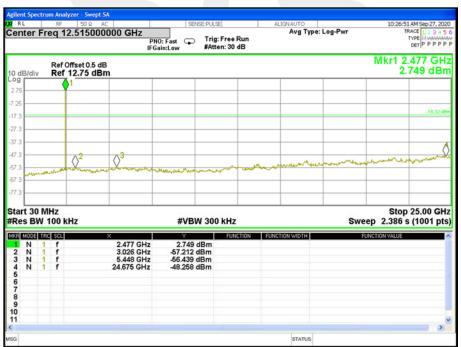
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19 CH



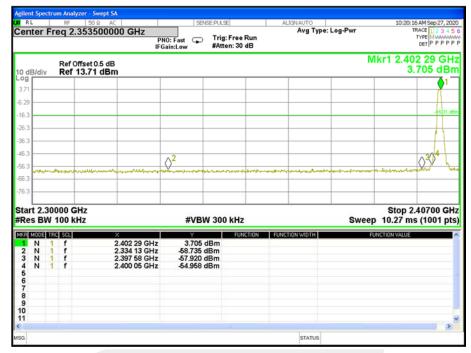
39 CH





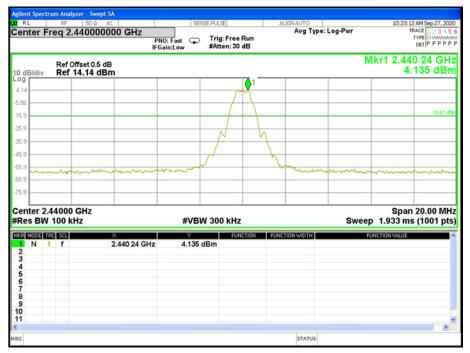


For Band edge(it's also the reference level for conducted spurious emission)



00 CH

19 CH





39 CH

	RF	50 R AC		SENSE	EPULSE	AL	Avg Type:	Log-Pwr		5 AM Sep 27, 2 RACE 1 2 3 4
	5y 2.4	0750000	P	NO: Fast 😱 Gain:Low	Trig: Free Run #Atten: 30 dB					DET P P P P
dB/div		fset 0.5 dB 3.68 dBm	1					М	kr1 2.480 3.	250 GI 681 dE
8		~	1							
2										-16.32
										-16.32
3		N	h							
		\rightarrow		2		^3				4
	www	N		amitherite	m	mlm		manson	······	molm
3	_									
urt 2.475 es BW 1				#VBW	300 kHz			Swee	Stop 2	50000 G
MODEL TRO		12 >	<	#VBVV	FUNCTION	FUNC	TION WIDTH		FUNCTION VALUE	s (1001 p
N 1 N 1	f f f f	2.	480 250 GHz 483 500 GHz 489 000 GHz 498 700 GHz	3.681 df -58.251 df -57.929 df -57.626 df	3m 3m					
N 1 N 1										
N 1										
N 1										



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6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

FCC Part 15.247,Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS	

6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: 100 kHz \ge RBW \ge 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 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 amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



6.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.85V		TX Mode /CH00, CH19, CH39

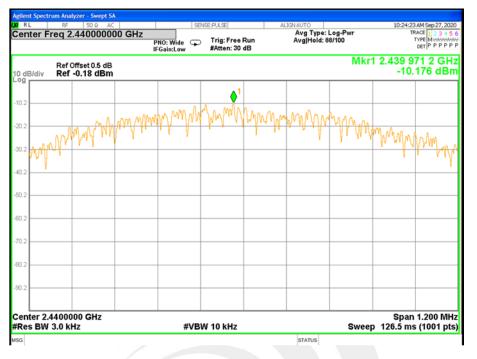
Fraguanay	Power Density	Limit (dBm/3kHz)	Docult	
Frequency	(dBm/3kHz)		Result	
2402 MHz	-10.580	≤8	PASS	
2440 MHz	-10.176	≤8	PASS	
2480 MHz	-10.594	≤8	PASS	

TX CH00





TX CH19



TX CH39



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7. BANDWIDTH TEST

7.1 LIMIT

FCC Part 15.247,Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

7.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



7.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.85V	Lest Mode.	TX Mode /CH00, CH19, CH39

Frequency	6dB Bandwidth (KHz)	Limit (KHz)	Result
2402 MHz	700.500	≥500KHz	PASS
2440 MHz	697.500	≥500KHz	PASS
2480 MHz	697.700	≥500KHz	PASS

TX CH 00

RL RF 50 Q AC	S	ENSE:PULSE	ALIGNAUTO	10:19:22 AM Sep 27, 20
nter Freg 2.40200000 (GHz	Center Freq: 2.4020000		Radio Std: None
	#IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>10/10	Radio Device: BTS
dB/div Ref 20.00 dBm				
nter 2.402 GHz es BW 100 kHz		#VBW 300 ki	Hz	Span 2 MH Sweep 1 m
Occupied Bandwidth	1	Total Power	10.7 dBm	
1.0	828 MHz			
Fransmit Freq Error	-194 Hz	OBW Power	99.00 %	
dB Bandwidth	700.5 kHz	x dB	-6.00 dB	
	10010 1112			

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TX CH 19

RL RF SDQ AC			ALIGNAUTO	10:22:23 AM Sep 27, 20
enter Freq 2.44000000		Center Freq: 2.4400000 Trig: Free Run	100 GHz Avg Hold:>10/10	Radio Std: None
	#IFGain:Low	#Atten: 30 dB	Avginola:>10/10	Radio Device: BTS
dB/div Ref 20.00 dBm				
g 0				
0				
0				
0				
0				
0				
0				
0				
enter 2.44 GHz Res BW 100 kHz		#VBW 300 kl	Hz	Span 2 MH Sweep 1 m
		Total Power		
Occupied Bandwidth		Total Power	TI. TUBII	
1.0	0815 MHz			
Transmit Freq Error	-931 Hz	OBW Power	99.00 %	
x dB Bandwidth	697.5 kHz	x dB	-6.00 dB	
			5.50 dB	

TX CH 39

STATUS

gilent Spectrum Analyzer - Occupied BV RL RF SO Q AC		ENSE:PULSE	ALIGNAUTO	10:25:32 AM Sep 27, 2020
enter Freq 2.48000000	GHz	Center Freq: 2.4800000		Radio Std: None
	#IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>10/10	Radio Device: BTS
10 dB/div Ref 20.00 dBm				
-og				
10.0				
0.00				
10.0				
20.0				
30.0				
40.0				
50.0				
60.0				
70.0				
Center 2.48 GHz #Res BW 100 kHz		#VBW 300 ki	Hz	Span 2 MHz Sweep 1 ms
Occupied Bandwidth	<u>ו</u>	Total Power	10.7 dBm	
	0797 MHz			
Transmit Freq Error	-1.466 kHz	OBW Power	99.00 %	
x dB Bandwidth	697.7 kHz	x dB	-6.00 dB	
ISG			STATUS	

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8. PEAK OUTPUT POWER TEST

8.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

 $RBW \ge DTS$ bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

a) Set the RBW \geq DTS bandwidth.

b) Set VBW \geq [3 × RBW].

c) Set span \geq [3 \times RBW].

d) Sweep time = auto couple.

e) Detector = peak.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.

b) Set the VBW \geq [3 \times RBW].

c) Set the span \geq [1.5 × DTS bandwidth].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

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 use a fast-responding diode detector.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



8.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.85V		TX Mode /CH00, CH19, CH39

Test Channe	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH0	2402	4.60	2.11	30
CH19	2440	4.77	2.20	30
CH39	2480	4.35	1.78	30

Note: Our power sensor test AVG power has no duty cycle display. The power sensor measures AVG power is Burst power. The software has considered the factor of the duty cycle factor, so it is unnecessary to add it again.

Duty cycle



Ton	Тр	Duty cycle(%)	Duty factor(dB)
0.398	0.626	63.58%	1.97



9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

9.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.



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10. EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

* * * * * END OF THE REPORT * * * *



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