



FCC Radio Test Report

FCC ID: 2AJZR-T602C00

This report concerns (check one): ⊠Original Grant □Class I Change □Class II Change

Project No. : 1611128
Equipment : Mobile Jacket

Test Model : iSAPPOS Scanner Jacket

Series Model : N/A

Applicant: iSAPPOS Systems Company Limited

Address : Room 04, 6/F., Block A, Tonic Industrial Centre, 26

Kai Cheung Road, Kowloon Bay, Hong Kong

Date of Receipt : Dec. 14, 2016

Date of Test : Dec. 14, 2016 ~ Dec. 23, 2016

Issued Date : Jan. 11, 2017
Tested by : BTL Inc.

Testing Engineer :

(Rush Kao

Technical Manager

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Authorized Signatory

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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1611128	Original Issue.	Jan. 12, 2017

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1. CERTIFICATION

Equipment : Mobile Jacket

Brand Name : N/A

Test Model : iSAPPOS Scanner Jacket

Series Model : N/A

Applicant : iSAPPOS Systems Company Limited Manufacturer : iSAPPOS Systems Company Limited

Address: Room 04, 6/F., Block A, Tonic Industrial Centre, 26 Kai Cheung Road,

Kowloon Bay, Hong Kong

Factory: FLYTECH TECHNOLOGY CO., LTD.

Address : No.36 Huaya 3rd Rd., Guishan Township, Taoyuan Country 33383, Taiwan

Date of Test : Dec. 14, 2016 ~ Dec. 23, 2016

Test Sample: Engineering Sample

Standard(s): FCC Part15, Subpart C (15.247)

ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1611128) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the Bluetooth LE part.

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247), Subpart C					
Standard(s) Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(d)	Antenna conducted Spurious Emission	PASS			
15.247(a)(2)	6dB Bandwidth	PASS			
15.247(b)(3)	Peak Output Power	PASS			
15.247(e)	Power Spectral Density	PASS			
15.203	Antenna Requirement	PASS			
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS			

NOTE:

(1)" N/A" denotes test is not applicable to this device.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

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2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

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

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U, (dB)
C05	CISPR	150 kHz ~ 30MHz	3.06

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15	CISPR	9kHz ~ 150kHz	2.96
(3m)	CISPR	150kHz ~ 30MHz	2.74

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
		30MHz ~ 200MHz	V	4.76
CB15	CISPR	30MHz ~ 200MHz	Н	4.28
(3m)	CISPR	200MHz ~ 1,000MHz	V	5.08
		200MHz ~ 1,000MHz	Н	4.50

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB15	CISPR	1GHz ~ 6GHz	V	4.48
(3m)	CISPR	1GHz ~ 6GHz	Н	4.50

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB15	CISPR	6GHz ~ 18GHz	V	4.30
(1m)	CISER	6GHz ~ 18GHz	Н	4.14

Test Site	Method	Measurement Frequency Range	U, (dB)
CB15	CISPR	18 ~ 26.5 GHz	4.66
(1m)	CISPR	26.5 ~ 40 GHz	4.74

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

Note: unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Jacket		
Brand Name	N/A		
Test Model	iSAPPOS Scanner Jacket		
Series Model	N/A		
Model Difference	EUT includes two without circuit covers: T602-6 and T603-6 which only differ in size.		
	Operation Frequency	2402~2480 MHz	
Product Description	Modulation Technology	GFSK(1Mbps)	
1 Toddot Booonphon	Bit Rate of Transmitter	Of Ort(Tivibps)	
	Output Power (Max.)	-0.12 dBm (1Mbps)	
Power Source	#1 DC voltage supplied from external power supply. EDAC/EA1012AVRS-050 #2 Bettery supplied. BA110000		
Power Rating	#1 I/P: 100-240Vac, 1.0A 50-60Hz O/P: 5V== 2.4A #2 3.7V== 1100mAh 4.07Wh		
Products Covered	1 * POWER: EDAC/EA1012AVR	S-050	

Note:

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

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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. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ACX	AT5020-B2R8HAA	Chip	N/A	0

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test		
Final Test Mode Description		
Mode 1	TX Mode	

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX Mode NOTE (1)	

Note:

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

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

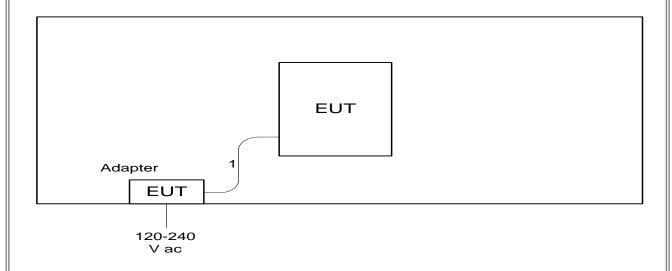
Test Software Version	SmartRF Studio v7		
Frequency (MHz)	2402	2440	2480
BT LE	0	0	-2

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF 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.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	Power Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Fraguency of Emission (MUT)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0 5	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	0	50	

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

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	

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 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 at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

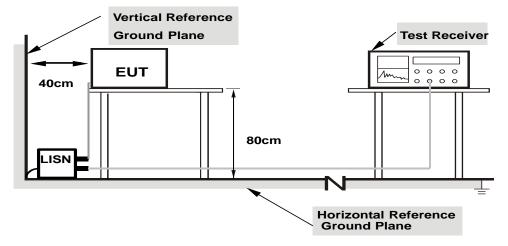
No deviation

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4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 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.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) "N/A" denotes test is not applicable to this device.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
Frequency (Miriz)	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).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

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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	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 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 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. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

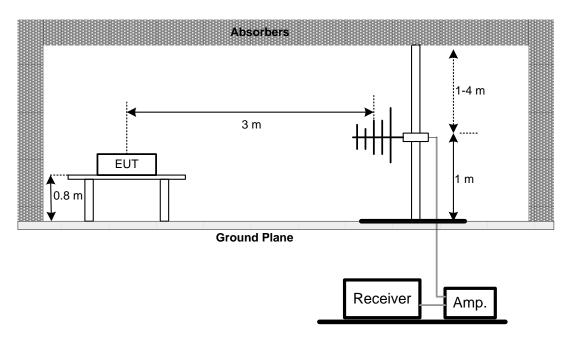
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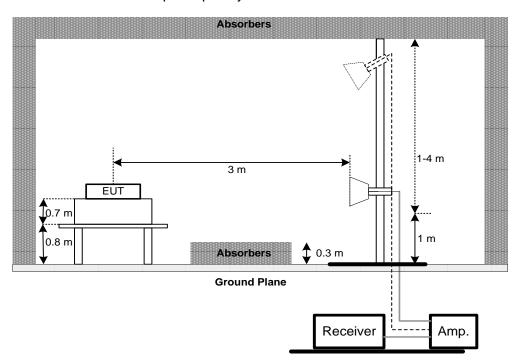


4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz

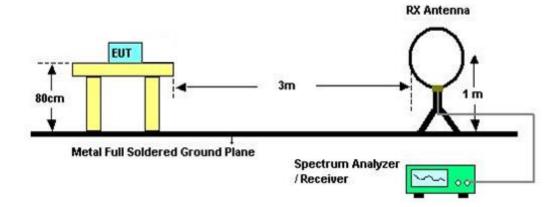


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(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 22°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section	Frequency Range (MHz)	Result			
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

5.1.1 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= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz)					
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS	

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 Ower weter

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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 conducted power limits.

7.1.1 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= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section	Frequency Range (MHz)	Result			
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

8.1.1 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=3KHz, VBW=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 25, 2017		
2	Test Cable	TIMES	CFD300-NL	C05	Jun. 14, 2017		
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 08, 2017		
4	Measurement Software	Farad	EZ_EMC (Version NB-03A)	N/A	N/A		

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Preamplifier	EMCI	012645B	980267	Mar. 01, 2017		
2	Preamplifier	EMCI	EMC02325	980217	Dec. 30, 2017		
3	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan. 05, 2017		
4	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan. 05, 2017		
5	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan. 05, 2017		
6	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 08, 2017		
7	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 23, 2017		
8	Loop Ant	EMCO	6502	42960	Nov. 24, 2017		
9	Horm Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Mar. 01, 2017		
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 17, 2017		
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 17, 2017		

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	6dB Bandwidth Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jul. 27, 2017

Peak Output Power Measurement						
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated unt					
1	Power Meter	Anritsu	ML2495A	1128008	Aug. 17, 2017	
2	Power Sensor	Anritsu	MA2411B	1126001	Aug. 17, 2017	

	Antenna Conducted Spurious Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jul. 27, 2017

Power Spectral Density Measurement										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jul. 27, 2017					

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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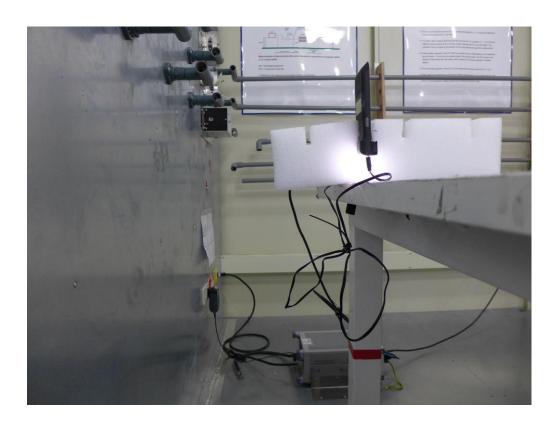




10. EUT TEST PHOTO







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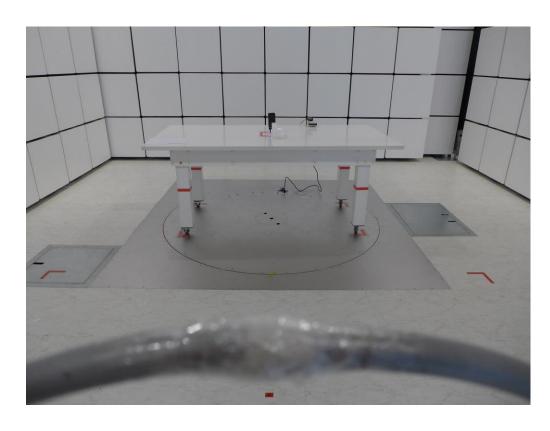




Radiated Measurement Photos

9KHz to 30MHz





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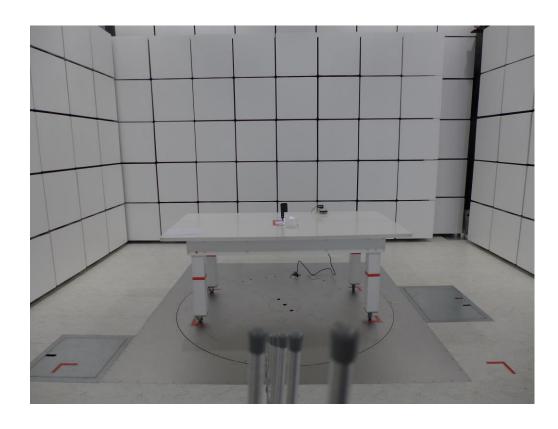




Radiated Measurement Photos

30MHz to 1000MHz





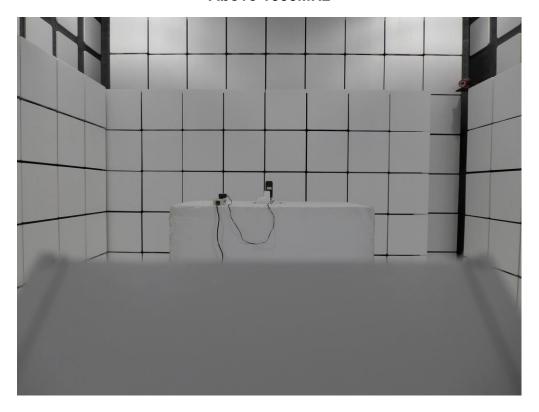
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Radiated Measurement Photos

Above 1000MHz





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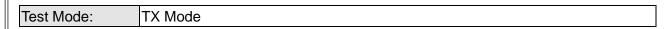


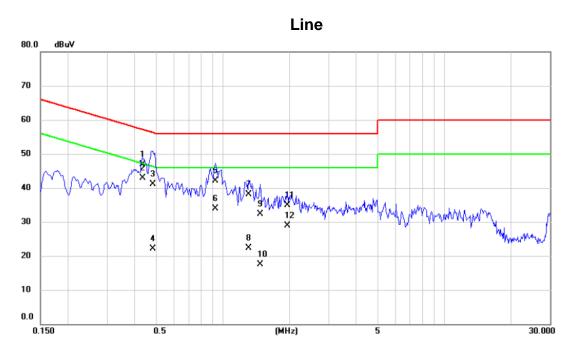
	ATTACHMENT A - CONDUCTED EMISSION
II .	

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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1	0.4334	37.30	9.67	46.97	57.19	-10.22	QP	
2 *	0.4334	33.30	9.67	42.97	47.19	-4.22	AVG	
3	0.4838	31.50	9.67	41.17	56.27	-15.10	QP	
4	0.4838	12.50	9.67	22.17	46.27	-24.10	AVG	
5	0.9230	32.40	9.67	42.07	56.00	-13.93	QP	
6	0.9230	24.20	9.67	33.87	46.00	-12.13	AVG	
7	1.3100	28.40	9.69	38.09	56.00	-17.91	QP	
8	1.3100	12.70	9.69	22.39	46.00	-23.61	AVG	
9	1.4720	22.70	9.69	32.39	56.00	-23.61	QP	
10	1.4720	7.90	9.69	17.59	46.00	-28.41	AVG	
11	1.9490	25.10	9.73	34.83	56.00	-21.17	QP	
12	1.9490	19.10	9.73	28.83	46.00	-17.17	AVG	

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1.8410

12

10.50

9.73

20.23



Test Mode: TX Mode **Neutral** 80.0 dBuV 70 60 50 40 30 20 10 0.0 (MHz) 30.000 0.150 Reading Correct Measure-Freq. Limit Margin No. Mk. Level Factor ment MHz dBuV dΒ dBuV dBuV dB Detector Comment 1 0.4356 34.20 9.67 43.87 57.15 -13.28 QP 2 0.4356 28.20 9.67 37.87 47.15 -9.28 AVG 3 0.4762 31.30 9.67 40.97 56.41 -15.44 QP 4 0.4762 20.80 9.67 30.47 46.41 -15.94 AVG 5 0.7430 24.40 9.68 34.08 56.00 -21.92 QP 0.7430 16.20 9.68 25.88 46.00 -20.12 6 AVG 0.9230 29.90 9.68 39.58 56.00 -16.42 QP 7 0.9230 21.70 -14.62 AVG 8 9.68 31.38 46.00 9 1.3100 23.70 9.70 33.40 56.00 -22.60 QP 1.3100 11.10 9.70 AVG 10 20.80 46.00 -25.209.73 11 1.8410 19.30 29.03 56.00 -26.97 QP

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-25.77

AVG

46.00





ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

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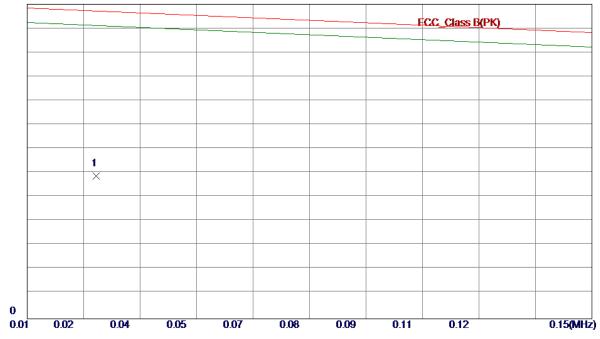




Test Mode: TX Mode

Ant 0°

130 dBuV/m



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	0.0263	43. 11	15. 99	59. 10	127. 26	-68. 16	Peak		

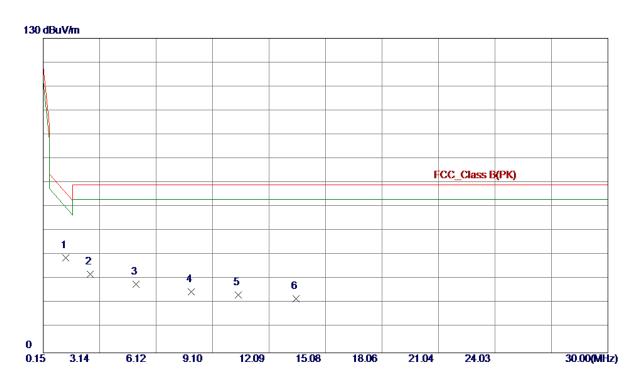
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Test Mode: TX Mode

Ant 0°



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	1. 3440	27. 36	11.85	39. 21	66. 19	−26. 98	Peak	
2	2.6274	21. 29	11. 27	32. 56	69. 54	-36. 98	Peak	
3	5.0750	16. 98	11.40	28. 38	69. 54	-41. 16	Peak	
4	7. 9706	13.82	11. 34	25. 16	69. 54	-44. 38	Peak	
5	10.4780	12. 56	11. 29	23. 85	69. 54	-45. 69	Peak	
6	13. 5228	11. 24	11. 19	22. 43	69. 54	-47.11	Peak	

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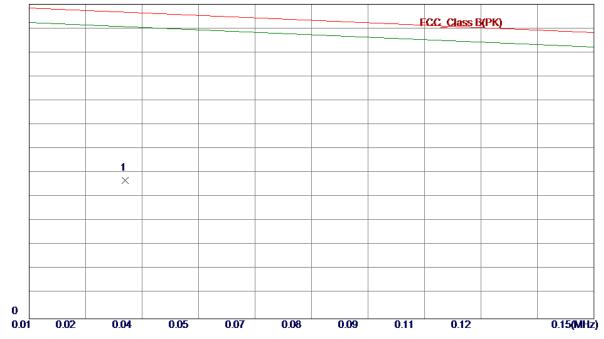




Test Mode: TX Mode

Ant 90°

130 dBuV/m



No.	Freq.	Keading Level		Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	0.0330	42.60	14. 69	57. 29	126.78	-69. 49	Peak		

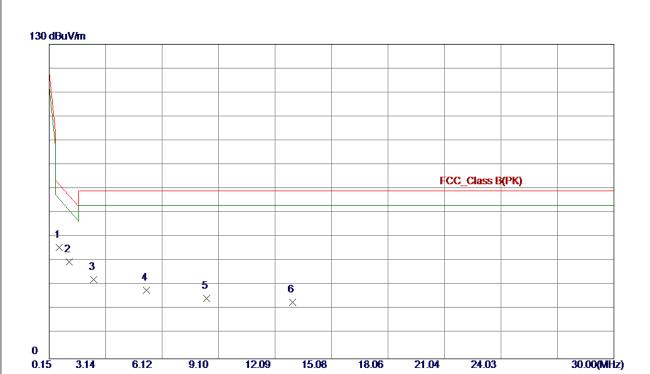
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Test Mode: TX Mode

Ant 90°



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.6873	34. 17	11.87	46. 04	72.04	-26.00	Peak	
2	1. 2240	28. 18	11. 90	40.08	67. 26	-27. 18	Peak	
3	2.5081	21. 56	11. 32	32.88	69. 54	-36. 66	Peak	
4	5. 2842	16. 97	11. 39	28. 36	69.54	-41. 18	Peak	
5	8.4780	13. 54	11. 33	24.87	69.54	-44. 67	Peak	
6	13. 0152	12.08	11. 21	23. 29	69.54	-46. 25	Peak	

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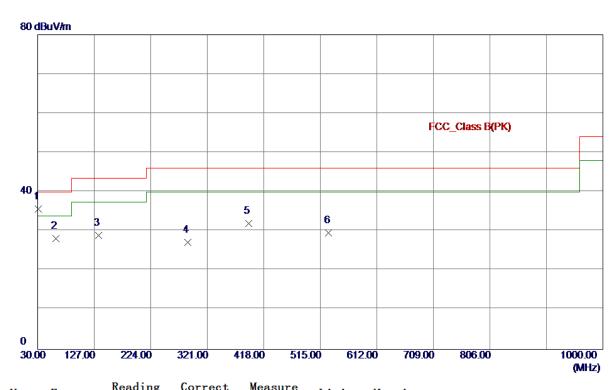
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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Vertical



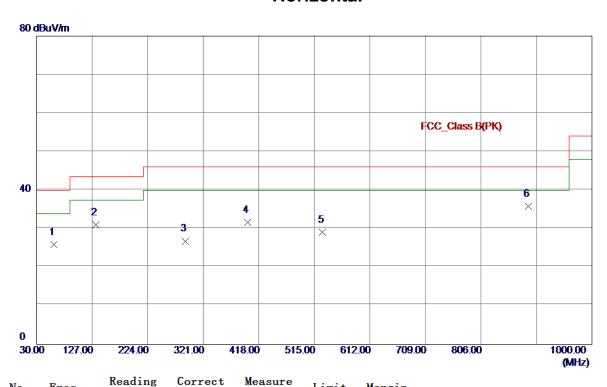
No.	Freq.	keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	30.9700	44.77	-9. 03	35. 74	40.00	-4.26	Peak	
2	61.0400	37.40	−9. 17	28. 23	40.00	-11.77	Peak	
3	134.7600	38. 33	−9. 34	28. 99	43.50	-14.51	Peak	
4	288. 0200	35. 17	-7. 97	27. 20	46.00	-18.80	Peak	
5	391.8100	37.45	-5.42	32.03	46.00	-13.97	Peak	
6	529. 5500	32.03	-2. 38	29.65	46.00	-16. 35	Peak	

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Horizontal



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	60.0700	34.99	-9.01	25. 98	40.00	-14.02	Peak	
2	133. 7899	40.44	-9. 43	31.01	43.50	-12.49	Peak	
3	289. 9600	34.71	-7. 91	26.80	46.00	-19. 20	Peak	
4	398.6000	36. 91	-5. 27	31.64	46.00	-14.36	Peak	
5	529. 5500	31.48	-2. 38	29. 10	46.00	-16. 90	Peak	
6 *	888. 4500	32.00	3.89	35. 89	46.00	-10. 11	Peak	

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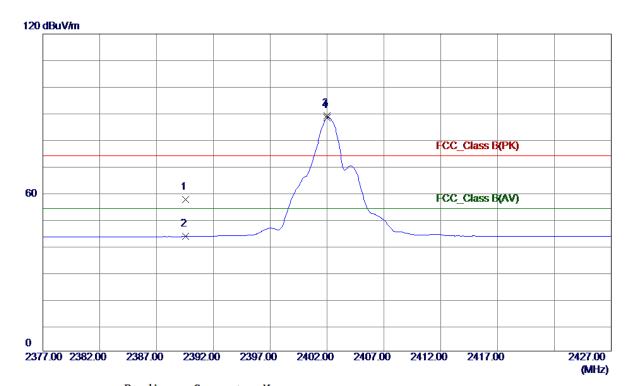
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2389. 5500	26. 46	30. 96	57.42	74.00	-16. 58	Peak	
2	2389. 5500	12.44	30. 96	43.40	54.00	-10.60	AVG	
3	2402.0000	57. 98	31.01	88. 99	74.00	14.99	Peak	No Limit
4 *	2402. 0000	57. 28	31. 01	88. 29	54.00	34. 29	AVG	No Limit

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Vertical



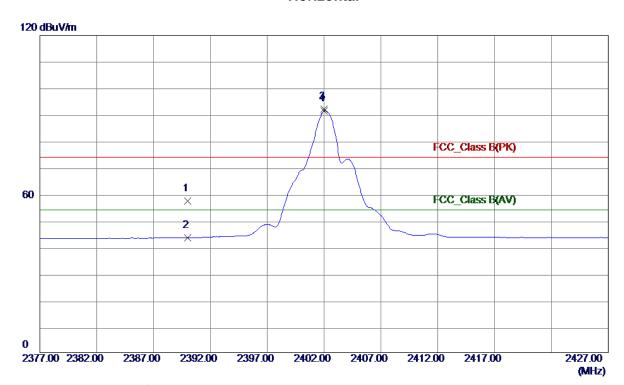
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4804.0000	60.66	-11. 50	49. 16	74.00	-24.84	Peak	
2 *	4804.0000	54.48	-11. 50	42.98	54.00	-11.02	AVG	

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Horizontal



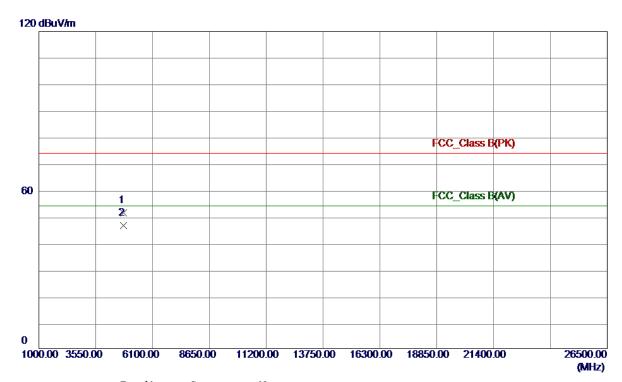
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26. 36	30. 97	57. 33	74.00	-16.67	Peak	
2	2390.0000	12. 51	30. 97	43.48	54.00	-10. 52	AVG	
3	2402.0000	61.08	31. 01	92. 09	74.00	18.09	Peak	No Limit
4 *	2402. 0000	60. 42	31.01	91. 43	54.00	37.43	AVG	No Limit

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Horizontal



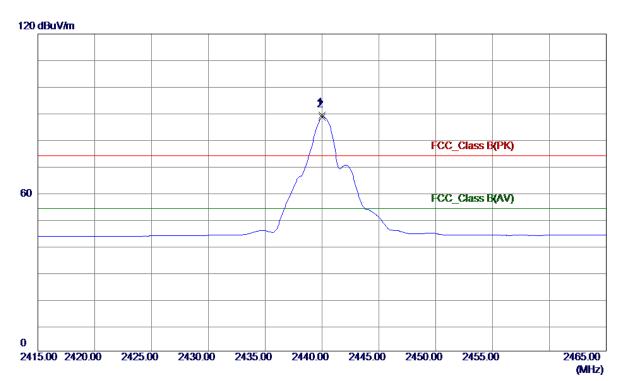
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4804.0000	62.78	-11.50	51. 28	74.00	-22.72	Peak	
2 *	4804.0000	58. 13	-11.50	46.63	54.00	-7.37	AVG	

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Vertical



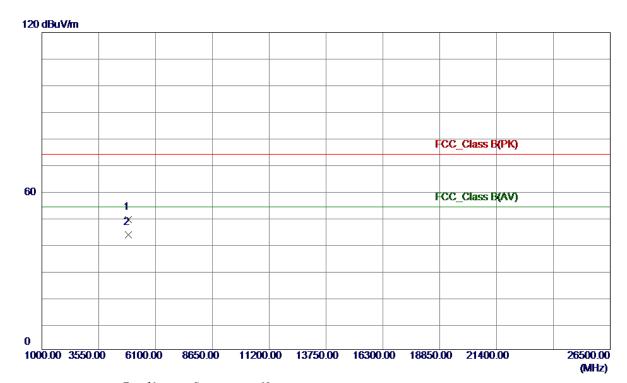
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2440.0000	58. 17	31. 15	89. 32	74.00	15. 32	Peak	No Limit
2 *	2440. 0000	57.45	31. 15	88. 60	54.00	34.60	AVG	No Limit

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Vertical



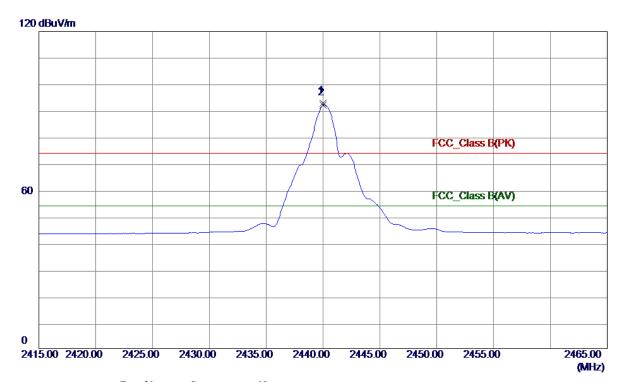
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4880.0000	60. 50	-11. 38	49. 12	74.00	-24.88	Peak	
2 *	4880. 0000	54.81	-11. 38	43. 43	54.00	-10. 57	AVG	

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Horizontal



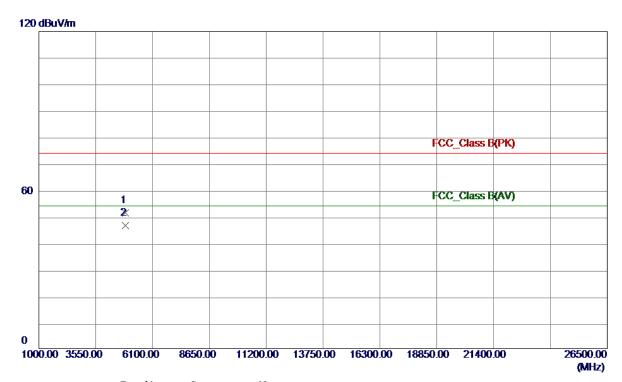
1	No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	2440.0000	61.65	31. 15	92.80	74.00	18.80	Peak	No Limit
2	2 *	2440.0000	60. 98	31. 15	92. 13	54.00	38. 13	AVG	No Limit

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Horizontal



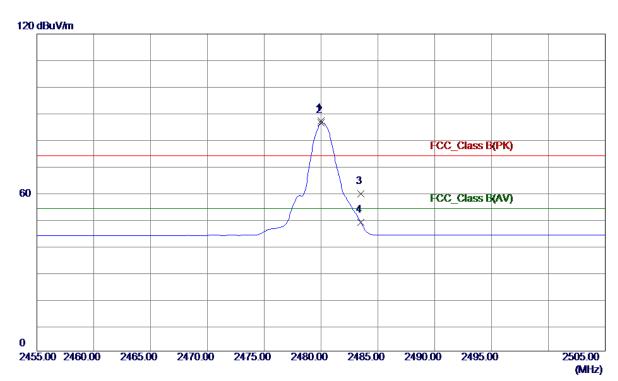
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4880.0000	62. 67	-11.38	51. 29	74.00	-22.71	Peak	
2 *	4880.0000	57. 96	-11.38	46. 58	54.00	-7.42	AVG	

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Vertical



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2480. 0000	55.80	31. 30	87. 10	74.00	13. 10	Peak	No Limit
2 *	2480.0000	54.98	31. 30	86. 28	54.00	32. 28	AVG	No Limit
3	2483. 5000	28. 28	31. 31	59. 59	74.00	-14.41	Peak	
4	2483. 5000	17.47	31. 31	48. 78	54.00	-5. 22	AVG	

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Vertical



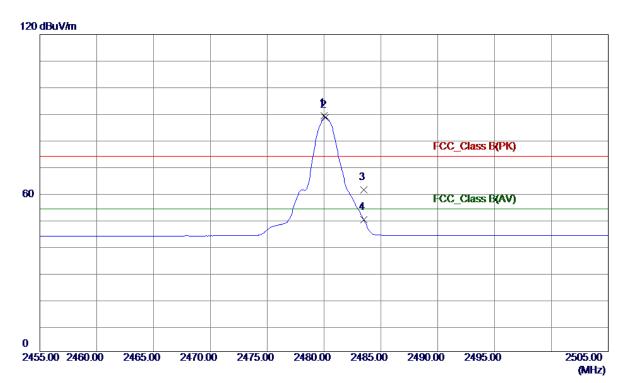
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4960.0000	58. 54	-11. 26	47. 28	74.00	-26.72	Peak	
2 *	4960.0000	51.80	-11. 26	40. 54	54.00	-13.46	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2480.0000	58.08	31. 30	89. 38	74.00	15. 38	Peak	No Limit
2 *	2480. 1000	57. 27	31. 30	88. 57	54.00	34. 57	AVG	No Limit
3	2483. 5000	29. 90	31. 31	61. 21	74.00	-12.79	Peak	
4	2483. 5000	18. 64	31. 31	49. 95	54.00	-4.05	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4960.0000	59. 92	-11. 26	48.66	74.00	-25. 34	Peak	
2 *	4960. 0000	53.65	-11. 26	42. 39	54.00	-11.61	AVG	

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ATTACHMENT E - BANDWIDTH

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Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.689	1.080	500	Pass
2440	0.666	1.080	500	Pass
2480	0.680	1.069	500	Pass

TX CH00



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TX CH19



TX CH39



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ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	-0.12	0.0010	30.00	1.00	Pass
2440	-0.62	0.0009	30.00	1.00	Pass
2480	-0.54	0.0009	30.00	1.00	Pass

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ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

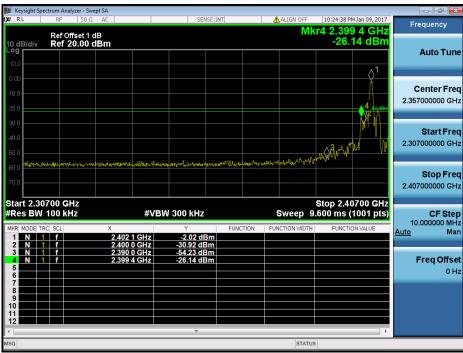
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Test Mode: CH00, CH19, CH39 - 1Mbps

CH00 (Lower) - 1Mbps



CH39 (upper) - 1Mbps

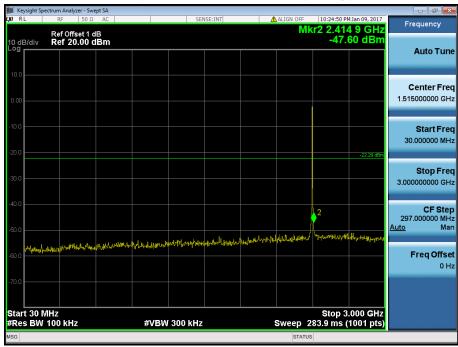


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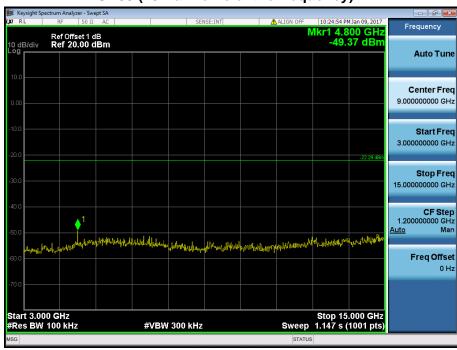




CH00 (10 Harmonic of the frequency) 1



CH00 (10 Harmonic of the frequency) 2

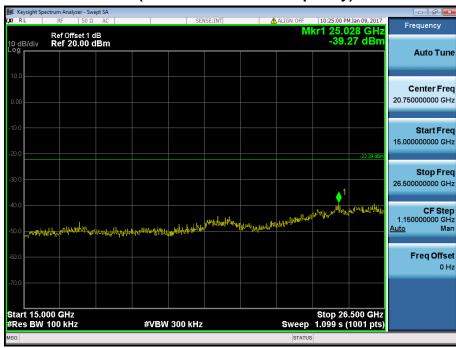


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CH00 (10 Harmonic of the frequency) 3



CH19 (10 Harmonic of the frequency) 1

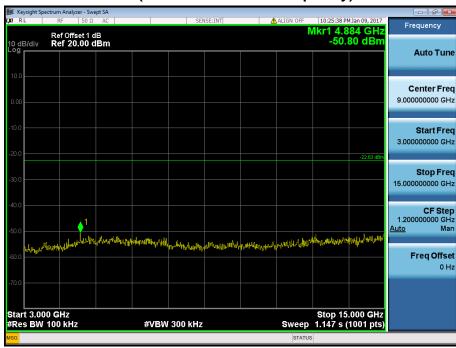


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CH19 (10 Harmonic of the frequency) 2



CH19 (10 Harmonic of the frequency) 3

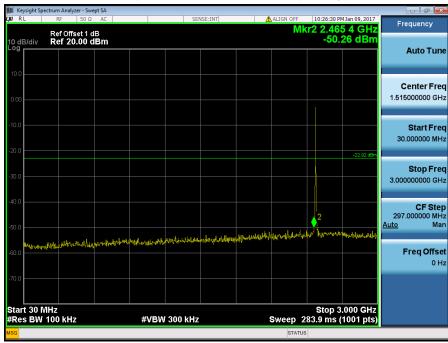


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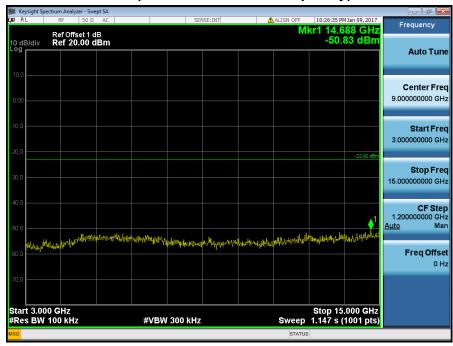




CH39 (10 Harmonic of the frequency) 1



CH39 (10 Harmonic of the frequency) 2

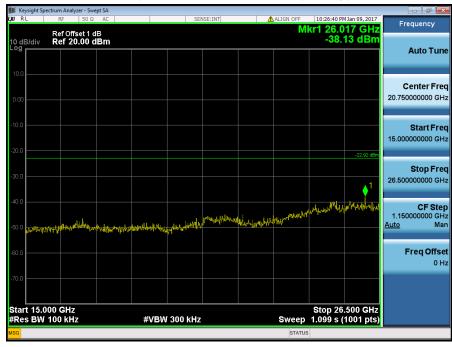


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CH39 (10 Harmonic of the frequency) 3



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ATTACHMENT H - POWER SPECTRAL DENSITY TEST

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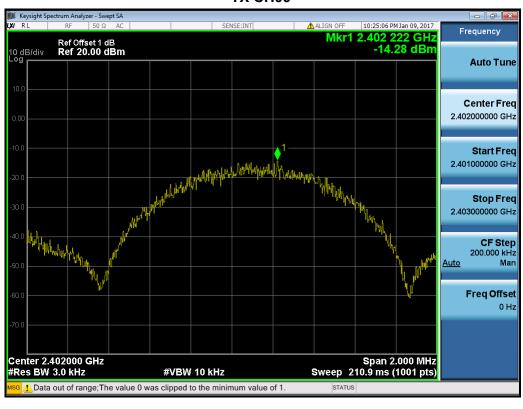




Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-14.280	0.037	8.00	Pass
2440	-13.880	0.041	8.00	Pass
2480	-14.670	0.034	8.00	Pass

TX CH00

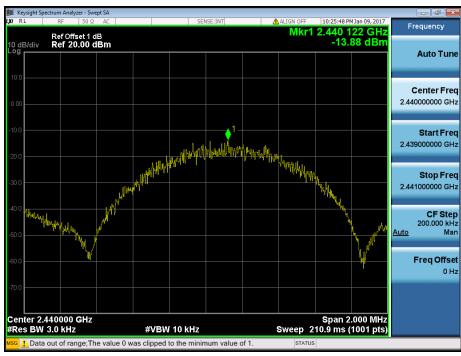


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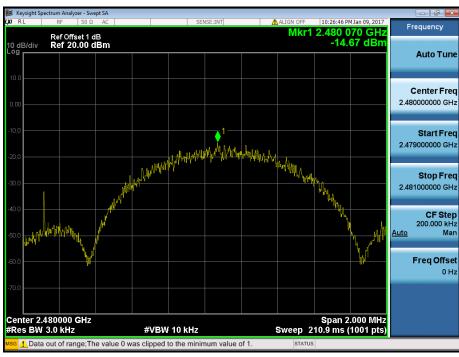




TX CH19



TX CH39



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