



FCC Radio Test Report

FCC ID: 2AJ2LQJXJ01FJ

This report concerns	(check one):	⊠Original Grant	☐ Class I Change	☐Class II Change
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Project No. : 1609199

Equipment: Mi Sphere Camera

Test Model : QJXJ01FJ

Series Model : N/A

Applicant : Beijing MadV Technology Co., Ltd

Address : No.80, Floor 4, building 17, Yard 30, Shixingdajie,

Shijingshan District ,Beijing

Date of Receipt : Nov. 21, 2016

Date of Test : Nov. 21, 2016 ~ Nov. 28, 2016

Issued Date : Nov. 28, 2016 Tested by : BTL Inc.

Testing Engineer : Kush

(Rush Kao

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1609199	Original Issue.	Nov. 28, 2016

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1. CERTIFICATION

Equipment : Mi Sphere Camera

Brand Name : 😈

Test Model : QJXJ01FJ

Series Model : N/A

Applicant : Beijing MadV Technology Co., Ltd Date of Test : Nov. 21, 2016 ~ Nov. 28, 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-1-1609199) 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).

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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				
15.209/15.205	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:965108; FCC DN:TW1082) No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB11: (VCCI RN: R-4260; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088-2) No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB11: (VCCI RN: G-868; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088-2) 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	2.04

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB11	CISPR	9kHz ~ 150kHz	4.00
(3m)	CISPR	150kHz ~ 30MHz	4.00

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
		30MHz ~ 200MHz	V	3.06
CB11	CISPR	30MHz ~ 200MHz	Н	2.58
(3m)	CISPR	200MHz ~ 1,000MHz	V	3.50
		200MHz ~ 1,000MHz	Н	3.10

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11	CISPR	1GHz ~ 6GHz	V	4.14
(3m)	CISPR	1GHz ~ 6GHz	Н	4.14

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11	CISPR	6GHz ~ 18GHz	V	5.34
(1m)	CISPR	6GHz ~ 18GHz	Н	5.34

Test Site	Method	Measurement Frequency Range	U, (dB)
CB11	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	Mi Sphere Camera		
Brand Name	מ		
Test Model	QJXJ01FJ		
Series Model	N/A		
Model Difference	N/A		
	Operation Frequency	2402~2480 MHz	
Product Description	Modulation Technology	- GFSK(1Mbps)	
1 Toddot Description	Bit Rate of Transmitter	- Gr SK(TWIDPS)	
	Output Power (Max.)	7.66 dBm (1Mbps)	
Power Source	Battery supplied.		
Power Rating	DC 3.8V		

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	LYNwave	MVD010W	PIFA	N/A	2.15

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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

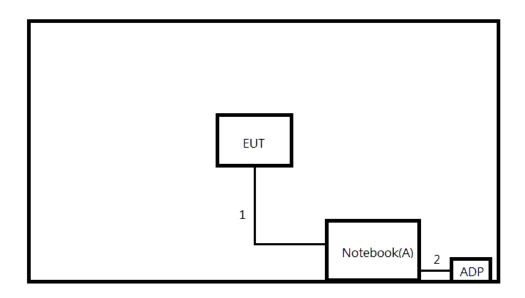
Test Software Version	Amba FW Debug Tool 01.03.20140804.OD		
Frequency (MHz)	2402 2440 2480		
BT LE	DEF	DEF	DEF

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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.
Α	Notebook PC	Acer	Z8C	DOC	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.8m	USB Cable
2	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)

Fragues 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

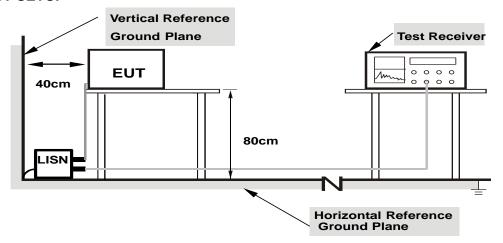
No deviation

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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: 24°C Relative Humidity: 60% 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

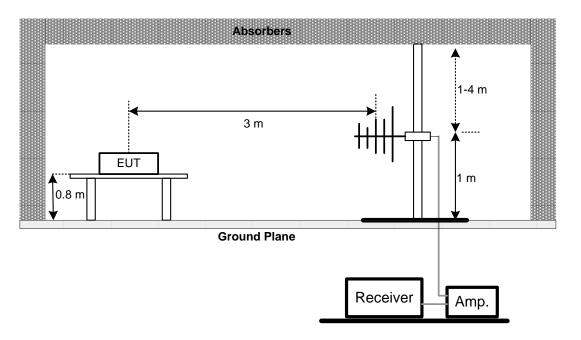
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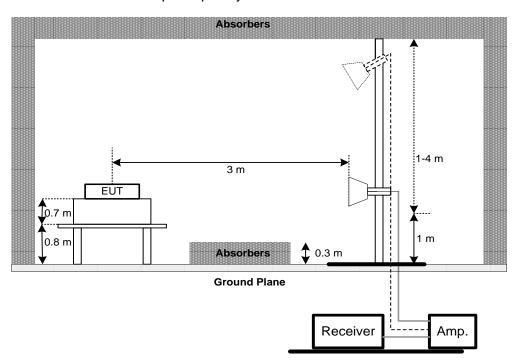


4.2.4 TEST SETUP

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



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

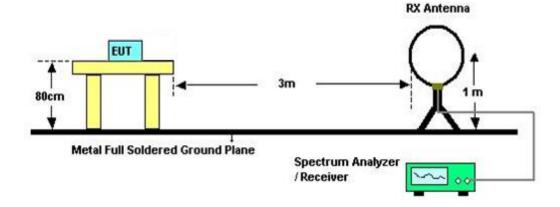


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(C) For radiated emissions below 30MHz



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 Test Item Limit Frequency Range (MHz)						
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) Result							
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 OWEL MICKEL

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 Test Item Limit 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	Item Kind of Equipment Manufacturer Type No			Serial No.	Calibrated until			
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 26, 2017			
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 15, 2017			
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 10, 2016			
4	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A			

	Radiated Emission Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	EMI Receiver	Keysight	N9038A	MY55420127	Jan. 07, 2017			
2	EXA Spectrum Analyzer	Keysight	N9010A	MY52220990	Feb. 23, 2017			
3	Horn Antenna(1G~18G)	SCHWARZBECK	BBHA 9120 D	9120D-1342	Mar. 01, 2017			
4	Trilog-Broadband Antenna(30M~1G)	Schwarzbeck	VULB9168	9168-548	Jan. 17, 2017			
5	Pre-Amplifier(30M~ 1G)	EMCI	EMC02325	980217	Dec. 29, 2016			
6	Pre-Amplifier(1G~2 6G)	EMCI	012645B	980267	Mar. 01, 2017			
7	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan. 05, 2017			
8	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan. 05, 2017			
9	Test Cable	EMCI	S104-SMAP-2	M001220	Jan. 05, 2017			
10	EXA Spectrum Analyzer	Agilent	N9010A	MY52220990	Feb. 24, 2017			
11	EMI Test Receiver	Agilent	N9038A	MY51210215	Jan. 08, 2017			
12	Loop Antenna	EMCO	6502	00042960	Nov. 24. 2017			

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	6dB Bandwidth Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 18, 2017		

	Peak Output Power Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Power Meter	Anritsu	ML2487A	6K00004714	May 18, 2017		
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 17, 2017		

	Antenna Conducted Spurious Emission Measurement								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 18, 2017				

Power Spectral Density Measurement								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 18, 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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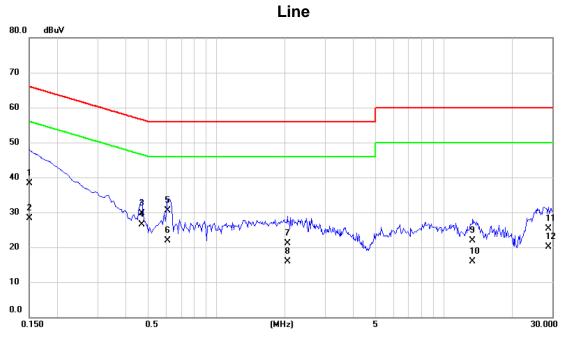


ATTACHMENT A - CONDUCTED EMISSION

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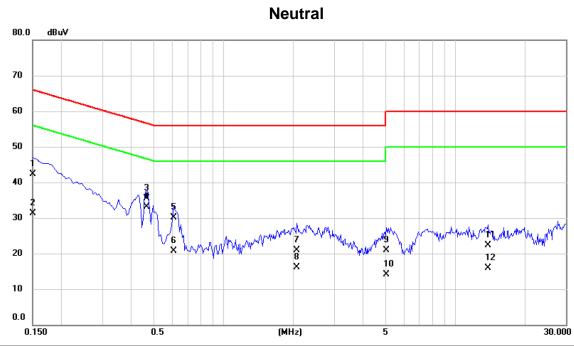


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	28.60	9.66	38.26	66.00	-27.74	QP	
2		0.1500	18.70	9.66	28.36	56.00	-27.64	AVG	
3		0.4692	20.10	9.67	29.77	56.53	-26.76	QP	
4	*	0.4692	16.90	9.67	26.57	46.53	-19.96	AVG	
5		0.6080	20.90	9.67	30.57	56.00	-25.43	QP	
6		0.6080	12.30	9.67	21.97	46.00	-24.03	AVG	
7		2.0480	11.30	9.73	21.03	56.00	-34.97	QP	
8		2.0480	6.20	9.73	15.93	46.00	-30.07	AVG	
9		13.4000	12.10	9.90	22.00	60.00	-38.00	QP	
10		13.4000	6.00	9.90	15.90	50.00	-34.10	AVG	
11		28.8000	15.30	9.97	25.27	60.00	-34.73	QP	
12		28.8000	10.10	9.97	20.07	50.00	-29.93	AVG	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	32.60	9.67	42.27	66.00	-23.73	QP	
2		0.1500	21.60	9.67	31.27	56.00	-24.73	AVG	
3		0.4664	25.90	9.67	35.57	56.58	-21.01	QP	
4	*	0.4664	23.40	9.67	33.07	46.58	-13.51	AVG	
5		0.6080	20.40	9.67	30.07	56.00	-25.93	QP	
6		0.6080	11.00	9.67	20.67	46.00	-25.33	AVG	
7		2.0660	11.20	9.74	20.94	56.00	-35.06	QP	
8		2.0660	6.40	9.74	16.14	46.00	-29.86	AVG	
9		5.0500	11.10	9.82	20.92	60.00	-39.08	QP	
10		5.0500	4.30	9.82	14.12	50.00	-35.88	AVG	
11		13.8500	12.40	9.92	22.32	60.00	-37.68	QP	
12		13.8500	5.90	9.92	15.82	50.00	-34.18	AVG	

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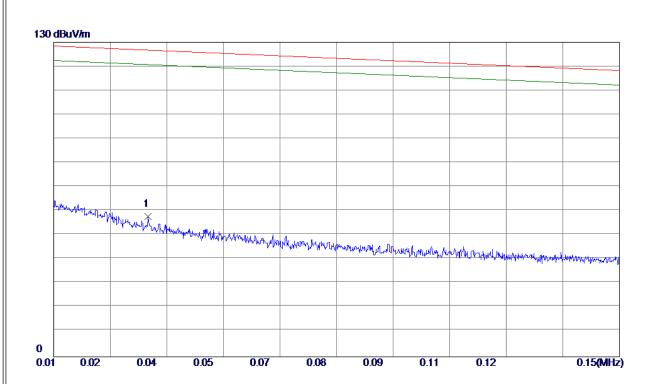
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

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Ant 0°



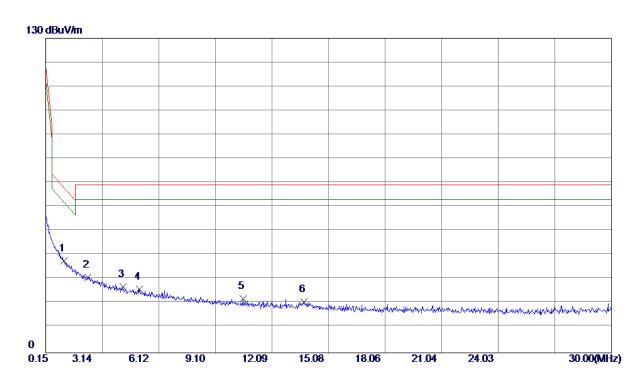
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	0.0325	43. 33	14. 74	58. 07	126.82	-68.75	Peak		

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Ant 0°



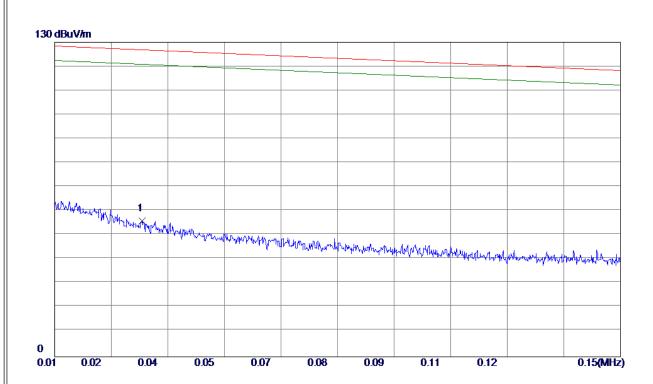
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	1. 1050	26. 13	11. 95	38. 0 8	68. 32	-30. 24	Peak	
2	2. 3590	19.87	11. 39	31. 26	69. 54	-38. 28	Peak	
3	4. 2393	15.89	11. 29	27. 18	69. 54	-42. 36	Peak	
4	5. 1051	14.77	11.40	26. 17	69. 54	-43. 37	Peak	
5	10. 5677	11.01	11. 28	22. 29	69. 54	-47.25	Peak	
6	13. 7911	9.82	11. 19	21.01	69. 54	-48. 53	Peak	

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Ant 90°



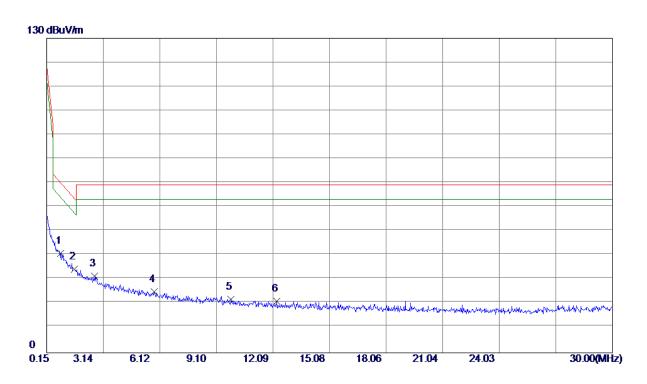
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	0.0307	41. 31	14. 92	56. 23	126. 95	-70.72	Peak		

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Ant 90°



No.	Freq.	Keading Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.8660	29. 23	11. 95	41. 18	70.45	-29. 27	Peak	
2	1.6126	22. 79	11.72	34. 51	63.79	-29. 28	Peak	
3	2.6872	20. 36	11. 24	31.60	69. 54	-37.94	Peak	
4	5.8215	13.80	11. 38	25. 18	69. 54	-44. 36	Peak	
5	9.8513	10.86	11. 30	22. 16	69. 54	-47.38	Peak	
6	12. 2987	10. 03	11. 23	21. 26	69. 54	-48. 28	Peak	

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

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Test Mode: TX 2402MHz _CH00_1Mbps

Vertical 80.0 dBuV/m 70 60 50 40 ź 8 8 5 X 30 20 10 0.0 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	34.8500	47.33	-9.10	38.23	40.00	-1.77	peak	
2	ļ	34.8500	44.31	-9.10	35.21	40.00	-4.79	QP	
3		47.4600	37.84	-8.39	29.45	40.00	-10.55	peak	
4		59.1000	42.58	-8.95	33.63	40.00	-6.37	peak	
5	(359.8000	38.37	-6.12	32.25	46.00	-13.75	peak	
6	2	140.3100	39.39	-4.13	35.26	46.00	-10.74	peak	
7	(300.3600	38.15	-0.62	37.53	46.00	-8.47	peak	

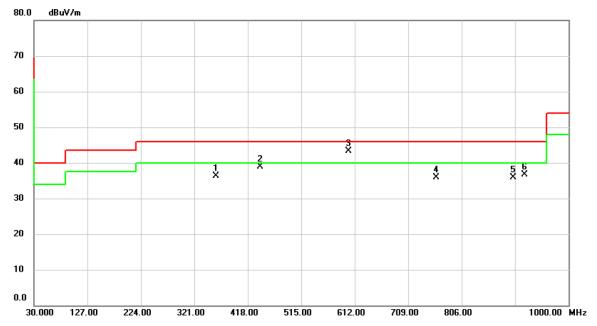
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Test Mode: TX 2402MHz _CH00_1Mbps

Horizontal



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		359.8000	42.35	-6.12	36.23	46.00	-9.77	peak	
	2		440.3100	43.08	-4.13	38.95	46.00	-7.05	peak	
	3	*	600.3600	43.95	-0.62	43.33	46.00	-2.67	peak	
	4		760.4100	33.84	2.00	35.84	46.00	-10.16	peak	
	5		900.0900	31.80	4.12	35.92	46.00	-10.08	peak	
	6		920.4600	32.18	4.48	36.66	46.00	-9.34	peak	
-										

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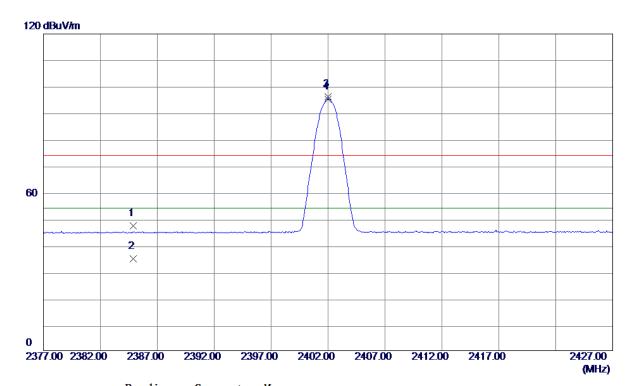
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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Vertical



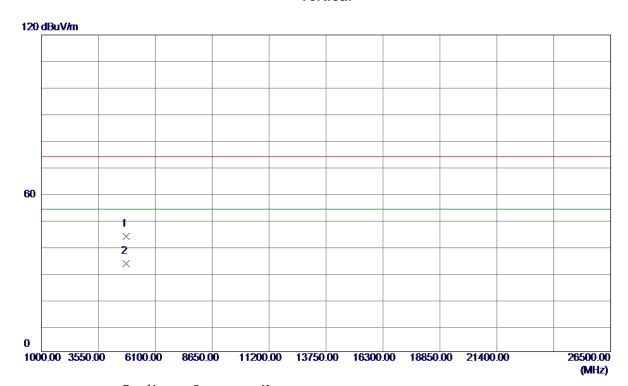
Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
2384.9040	16. 35	30. 95	47.30	74.00	-26.70	Peak	
2384.9040	3. 79	30.95	34.74	54.00	-19. 26	AVG	
2402.0000	65. 23	31.01	96. 24	74.00	22. 24	Peak	No Limit
2402. 0000	64. 34	31. 01	95. 35	54.00	41.35	AVG	No Limit
	MHz 2384. 9040 2384. 9040 2402. 0000	Freq. Level	MHz dBuV/m dB 2384.9040 16.35 30.95 2384.9040 3.79 30.95 2402.0000 65.23 31.01	Hreq. Level Factor ment MHz dBuV/m dB dBuV/m 2384.9040 16.35 30.95 47.30 2384.9040 3.79 30.95 34.74 2402.0000 65.23 31.01 96.24	MHz dBuV/m dB dBuV/m dBuV/m 2384.9040 16.35 30.95 47.30 74.00 2384.9040 3.79 30.95 34.74 54.00 2402.0000 65.23 31.01 96.24 74.00	MHz dBuV/m dB dBuV/m dB dBuV/m dB dBuV/m dB 2384.9040 16.35 30.95 47.30 74.00 -26.70 2384.9040 3.79 30.95 34.74 54.00 -19.26 2402.0000 65.23 31.01 96.24 74.00 22.24	MHz dBuV/m dB dBuV/m dB uV/m dB uV/m </td

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Vertical



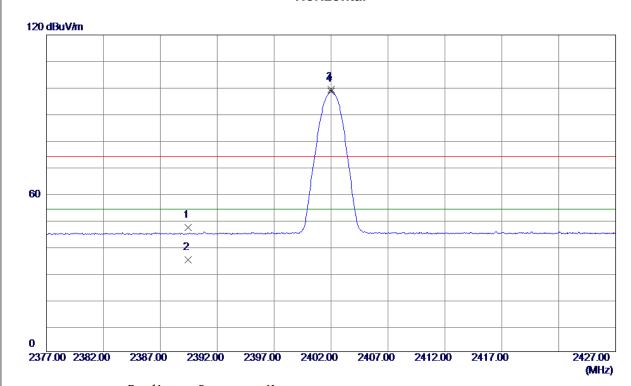
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4804.0000	55. 15	-11. 50	43.65	74.00	-30. 35	Peak	
2 *	4804.0000	44. 90	-11. 50	33. 40	54.00	-20.60	AVG	

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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	2389. 4410	15. 99	30.96	46. 95	74.00	-27.05	Peak	
2	2389. 4410	3.85	30.96	34.81	54.00	-19. 19	AVG	
3	2402.0000	68. 43	31.01	99.44	74.00	25. 44	Peak	No Limit
4 *	2402.0000	67.52	31. 01	98. 53	54.00	44.53	AVG	No Limit

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Horizontal



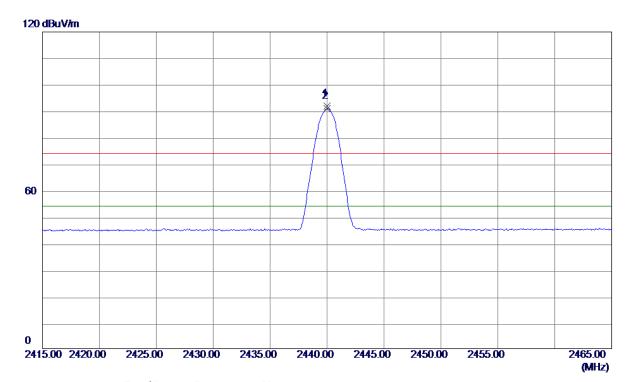
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4804.0000	56.06	-11. 50	44. 56	74.00	-29.44	Peak	
2 *	4804.0000	46.83	-11. 50	35. 33	54.00	-18. 67	AVG	

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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	60.68	31. 15	91.83	74.00	17.83	Peak	No Limit
2 *	2440.0000	59.73	31. 15	90.88	54.00	36.88	AVG	No Limit

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Vertical



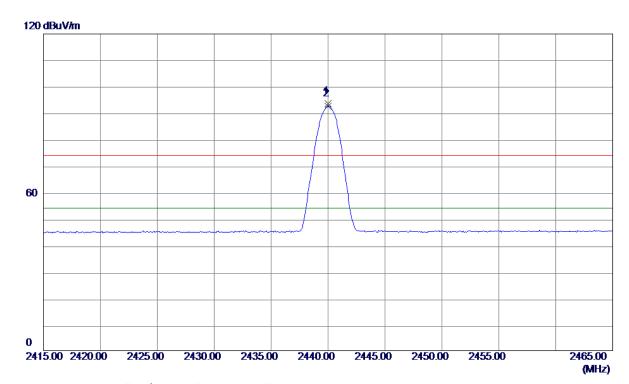
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4880.0000	56. 53	-11. 38	45. 15	74.00	-28.85	Peak	
2 *	4880. 0000	47.50	-11. 38	36. 12	54.00	-17.88	AVG	

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Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2440.0000	62. 37	31. 15	93. 52	74.00	19. 52	Peak	No Limit
2 *	2440. 0000	61.46	31. 15	92.61	54.00	38. 61	AVG	No Limit

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Horizontal



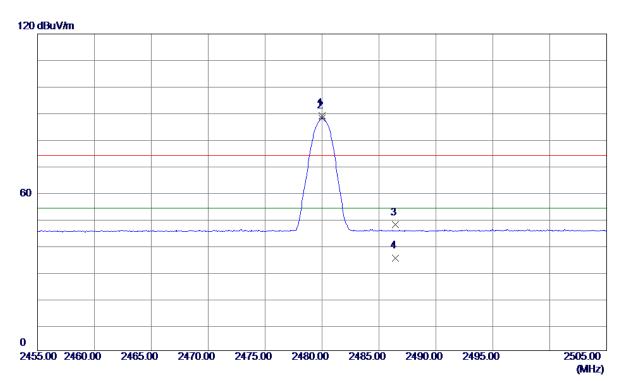
No	о.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.0000	57.08	-11. 38	45.70	74.00	-28. 30	Peak	
2	*	4880.0000	47.45	-11. 38	36. 07	54.00	-17. 93	AVG	

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Vertical



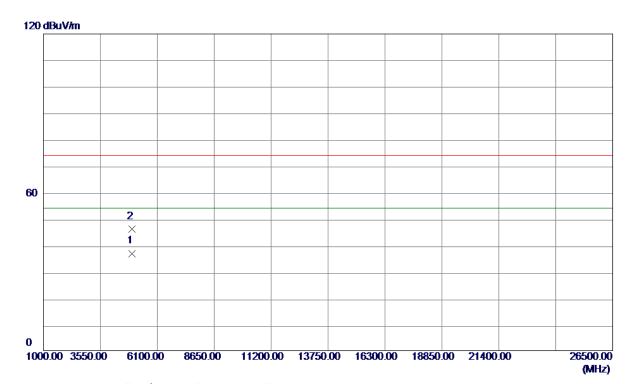
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2480.0000	57.83	31. 30	89. 13	74.00	15. 13	Peak	No Limit
2 *	2480.0000	56.74	31. 30	88. 04	54.00	34.04	AVG	No Limit
3	2486. 4370	16. 32	31. 32	47.64	74.00	-26. 36	Peak	
4	2486. 4370	3. 79	31. 32	35. 11	54.00	-18.89	AVG	

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Vertical



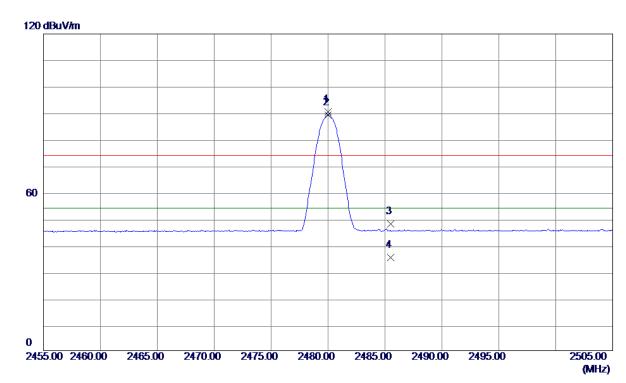
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4959. 9850	48. 10	-11. 26	36. 84	54.00	-17. 16	AVG	
2	4960. 0000	57. 34	-11. 26	46. 08	74.00	-27.92	Peak	

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Horizontal



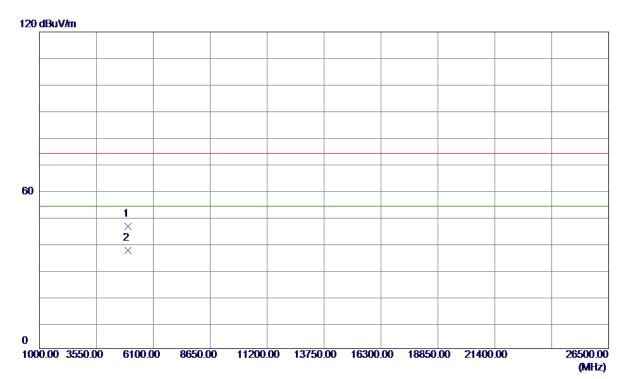
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2480.0000	59.06	31. 30	90. 36	74.00	16. 36	Peak	No Limit
2 *	2480.0000	58. 0 5	31. 30	89. 35	54.00	35. 35	AVG	No Limit
3	2485. 4800	16. 68	31. 32	48.00	74.00	-26.00	Peak	
4	2485. 4800	3.86	31. 32	35. 18	54.00	-18.82	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	57. 67	-11. 26	46. 41	74.00	-27. 59	Peak	
2 *	4960.0000	48. 43	-11. 26	37. 17	54.00	-16.83	AVG	

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ATTACHMENT E - BANDWIDTH	
ATTACHMENT E - DANDWIDTH	

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Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.684	1.077	500	Pass
2440	0.704	1.080	500	Pass
2480	0.692	1.079	500	Pass

TX CH00

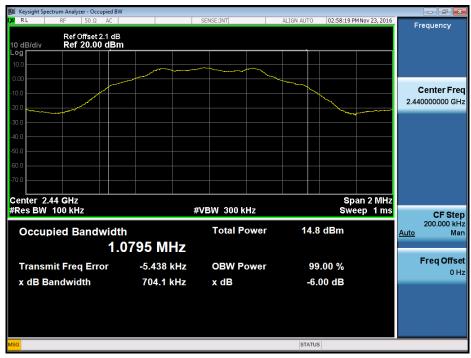


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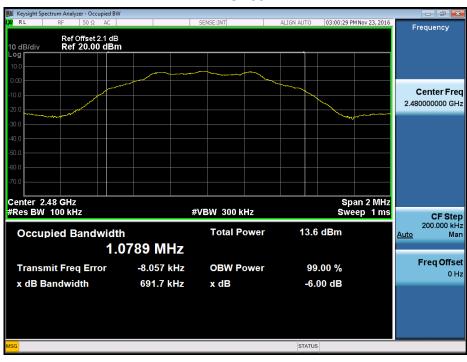




TX CH19



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	7.110	0.0051	30.00	1.00	Pass
2440	7.580	0.0057	30.00	1.00	Pass
2480	7.660	0.0058	30.00	1.00	Pass

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ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

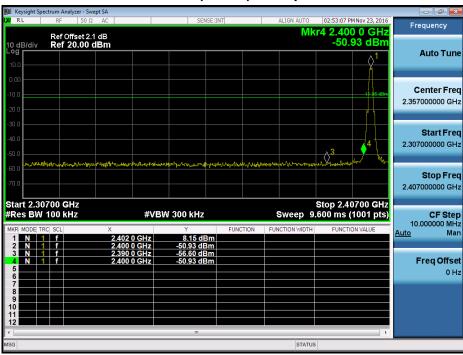
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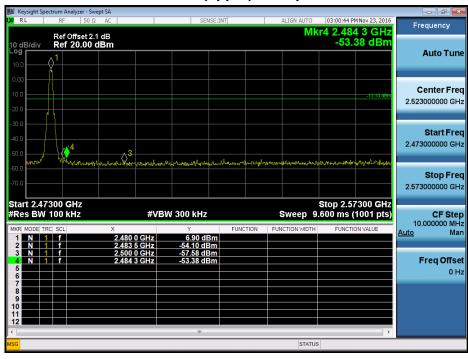


Test Mode: CH00, CH19, CH39 - 1Mbps

CH00 (Lower) - 1Mbps



CH39 (upper) - 1Mbps

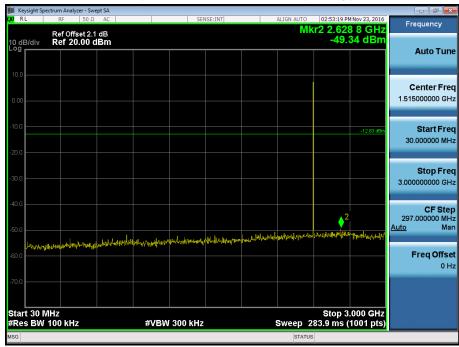


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CH00 (10 Harmonic of the frequency) 1



CH00 (10 Harmonic of the frequency) 2



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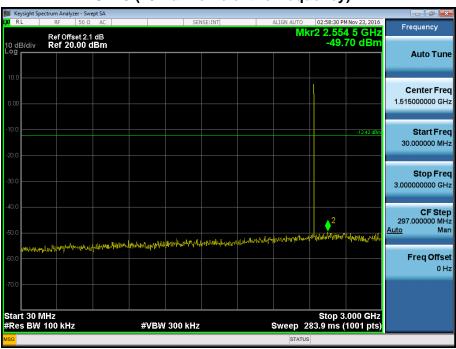




CH00 (10 Harmonic of the frequency) 3



CH19 (10 Harmonic of the frequency) 1

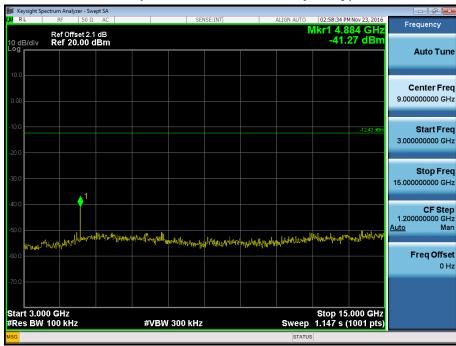


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CH19 (10 Harmonic of the frequency) 2



CH19 (10 Harmonic of the frequency) 3

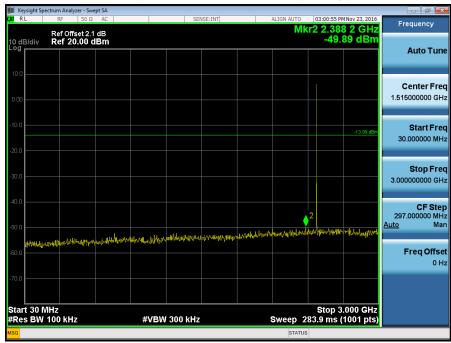


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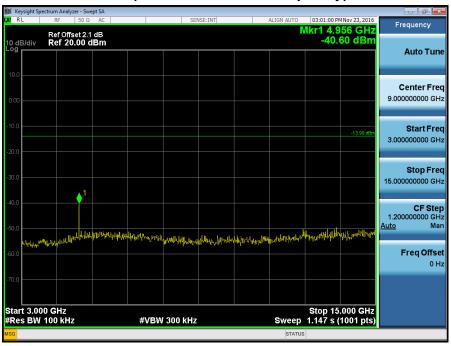




CH39 (10 Harmonic of the frequency) 1



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	-5.500	0.282	8.00	Pass
2440	-5.520	0.281	8.00	Pass
2480	-6.880	0.205	8.00	Pass

TX CH00

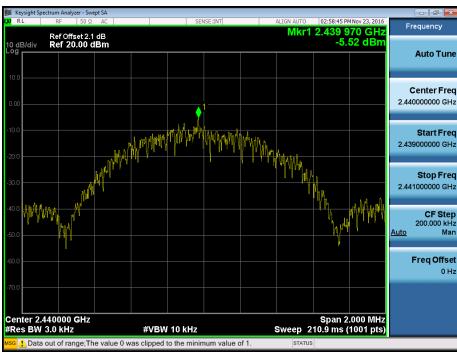


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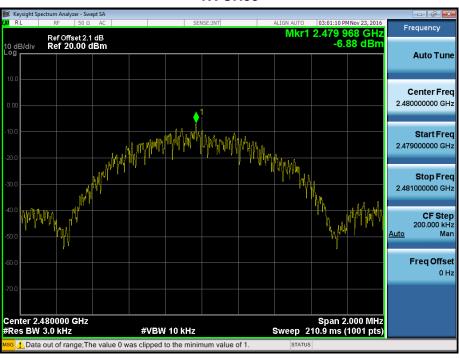




TX CH19



TX CH39



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