



# **FCC** Radio Test Report

FCC ID: ZVAOH000009

This report concerns (chec	ck one): 🖂	☑Original Grant □Class I Change □Class II Change
Project No. Equipment Test Model Series Model Applicant Address	: Section	
Date of Receipt Date of Test Issued Date Tested by	: Aug. 22	22, 2017 ~ Aug. 29, 2017 30, 2017
Testing Engineer		: Paul. Li (Paul Li)
Technical Manag	er	: David Mao (David Mao)
Authorized Signa	atory	: Sean h

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Lab Code: 200788-0

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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-1-1708C243	Original Issue.	Aug. 30, 2017

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#### 1. CERTIFICATION

Equipment : Beacon Brand Name : WHERE Test Model : EXTx Series Model : N/A

Applicant : TCL Technoly Electronics (Huizhou) Co., Ltd. Manufacturer : TCL Technoly Electronics (Huizhou) Co., Ltd.

Address : Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang

Dong Province, P.R. China

Factory : TCL Technoly Electronics(Huizhou) Co., Ltd

Address : Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang

Dong Province, P.R. China

Date of Test : Aug. 22, 2017 ~ Aug. 29, 2017

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-1-1708C243) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP 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	N/A	
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	е
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(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 is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 854385

#### 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. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
	30MHz ~ 200MHz	Н	3.78		
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	4.10	
DG-CB03	3-CBU3 CISFR	200MHz ~ 1,000MHz	Н	4.06	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz 18GHz~40GHz	1GHz~18GHz	Н	3.68
			18GHz~40GHz	V	4.15
		18GHz~40GHz	Н	4.14	

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	Beacon	
Brand Name	WHERE	
Test Model	EXTx	
Series Model	N/A	
Model Difference	N/A	
Product Description	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps)
	Bit Rate of Transmitter	Of Ort(Tivibps)
	Output Power (Max.)	1.47 dBm (1Mbps)
Power Source	Supplied from battery.	
Power Rating	DC 3V 210mAh	

#### Note:

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

# 2. Channel List:

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

# 3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	1.1

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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 <b>NOTE (1)</b>

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 <b>NOTE (1)</b>	

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

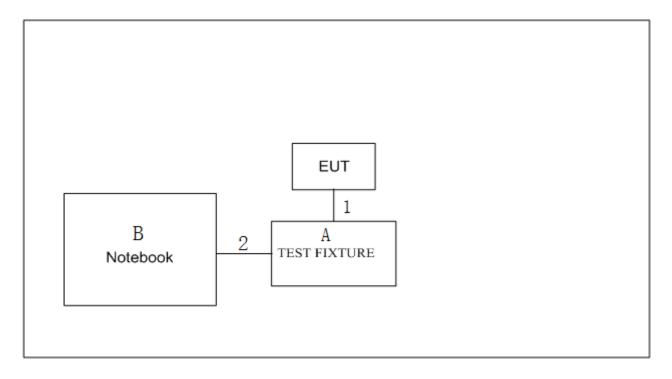
Test Software Version	CSR Host Tools		
Frequency (MHz)	2402	2440	2480
BT LE	4	4	4

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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	Test Fixture	N/A	N/A	N/A	N/A
В	Notebook	DELL	INSPIRON 1420	N/A	JX193A01SDC2

	Item	Shielded Type	Ferrite Core	Length	Note
	1	NO	NO	2cm	Data Cable
Ī	2	NO	NO	1m	USB 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 Francisco (MIII-)	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	60	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 equipment 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

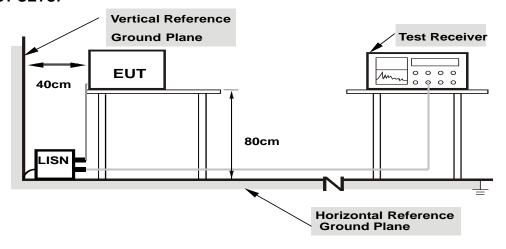
No deviation

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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: N/A Relative Humidity: N/A Test Voltage: N/A

## 4.1.7 TEST RESULTS

Please refer to the Appendix 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

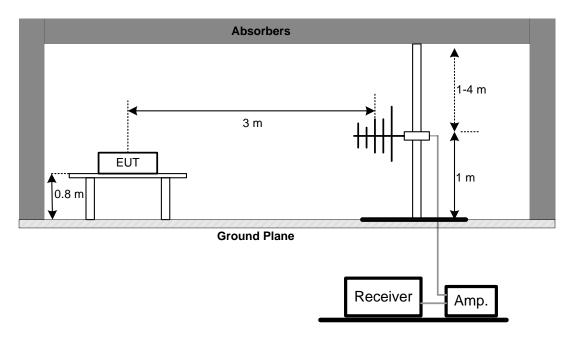
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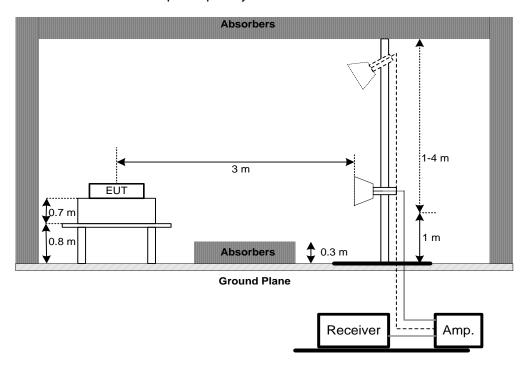


# 4.2.4 TEST SETUP

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



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

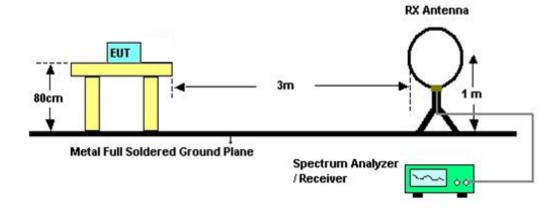


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### (C) For radiated emissions below 30MHz



#### 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: DC 3V

# 4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix 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 1000MHZ)

Please refer to the Appendix C.

# 4.2.9TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix 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)	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: DC 3V

# **5.1.6 TEST RESULTS**

Please refer to the Appendix 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 5 WEI WEIGH

# **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: DC 3V

# **6.1.6 TEST RESULTS**

Please refer to the Appendix 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: DC 3V

### 7.1.6 TEST RESULTS

Please refer to the Appendix 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: DC 3V

# 8.1.6 TEST RESULTS

Please refer to the Appendix H.

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# 9. MEASUREMENT INSTRUMENTS LIST

	Radiated Emission Measurement - Below 1GHz				
Item	Item Kind of Equipment   Manufacturer   Type No.   Serial No.   Calibrated un				
1	1 Antenna Schwarbeck VULB9160 9160-3232 Mar. 26, 20		Mar. 26, 2018		
2 Amplifier HP 8447D 2944A09673 Oct. 20, 20		Oct. 20, 2017			
3	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
4	Cable	Cable emci LMR-400(30MHz-1 N/A Jun. 26, 20		Jun. 26, 2018	
5	5 Controller CT SC100 N/A N/A		N/A		
6	6 Controller MF MF-7802 MF780208416 N/A		N/A		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

	Radiated Emission Measurement - Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018	
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018	
3	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018	
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018	
5	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017	
6	Antenna	EM	EM-6876-1	230	Jul. 07, 2018	
7	Controller	СТ	SC100	N/A	N/A	
8	Controller	MF	MF-7802	MF780208416	N/A	
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018	
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

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	6dB Bandwidth Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

	Peak Output Power Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 26, 2018
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 2018

	Antenna Conducted Spurious Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

	Power Spectral Density Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 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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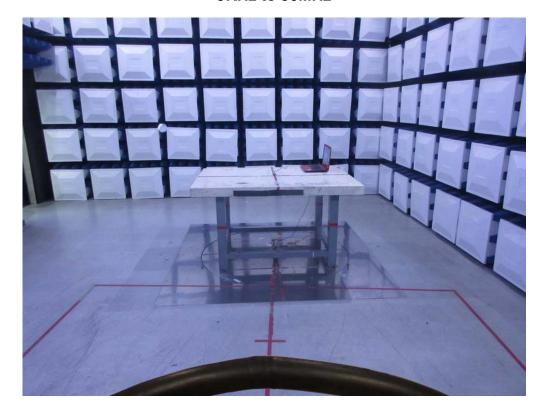




# **10. EUT TEST PHOTO**

# **Radiated Measurement Photos**

# 9KHz to 30MHz





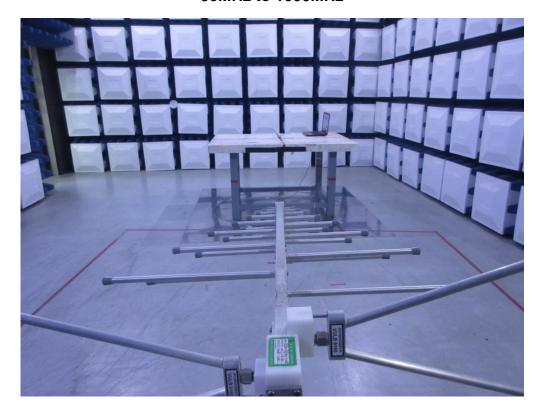
Report No.: BTL-FCCP-1-1708C243

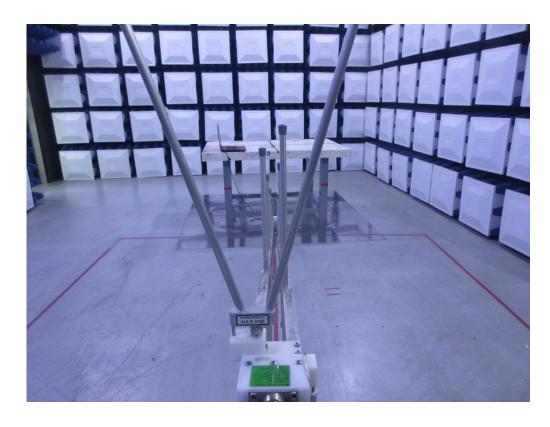




# **Radiated Measurement Photos**

# 30MHz to 1000MHz





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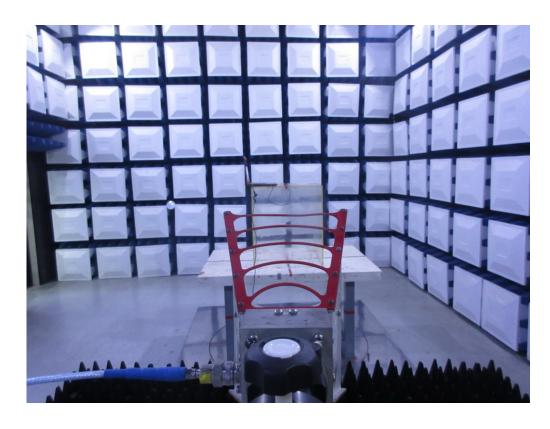




# **Radiated Measurement Photos**

# Above 1000MHz





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# **APPENDIX A - CONDUCTED EMISSION**

		_
T1	Mode:	NI/A
IDCT	MUDGE:	$M/\Delta$
1631	IVIOUE.	11/ 🦳

Note: "N/A" denotes test is not applicable to this device.

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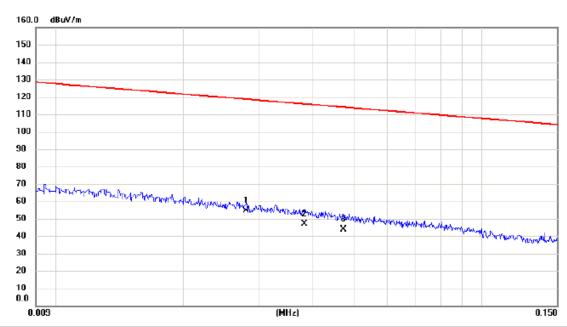
 APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

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Ant 0°



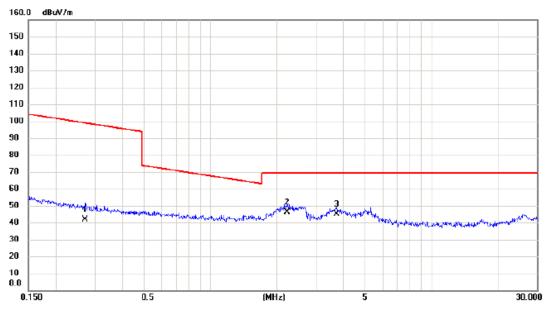
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBu∀/m	dB	Detector	Comment
1	*	0.0280	35.28	19.38	54.66	118.66	-64.00	AVG	
2		0.0383	27.82	19.07	46.89	115.94	-69.05	AVG	
3		0.0473	24.92	18.80	43.72	114.11	-70.39	AVG	

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# Ant 0°



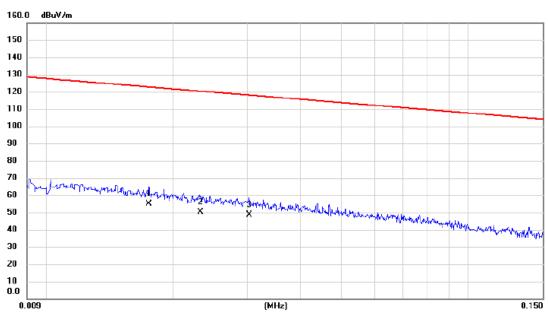
No. Mk.	Freq.	Reading Level		Measure- ment		Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2714	25.06	16.64	41.70	98.93	-57.23	AVG	
2 *	2.2132	30.69	15.45	46.14	69.54	-23.40	QP	
3	3.7198	30.01	15.02	45.03	69.54	-24.51	QP	

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# Ant 90°



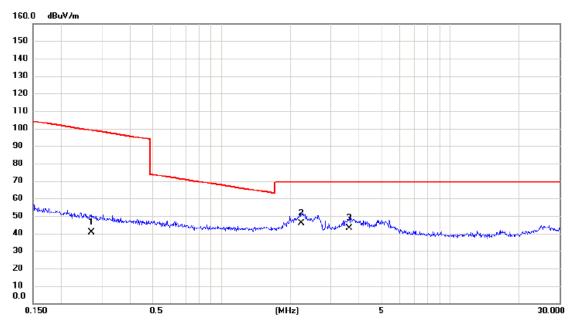
No. Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0175	34.92	19.95	54.87	122.74	-67.87	AVG	
2	0.0232	30.62	19.52	50.14	120.30	-70.16	AVG	
3	0.0303	29.35	19.31	48.66	117.98	-69.32	AVG	

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# Ant 90°



No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2714	24.15	16.64	40.79	98.93	-58.14	AVG	
2 *	2.2367	30.23	15.44	45.67	69.54	-23.87	QP	
3	3.6034	27.84	15.06	42.90	69.54	-26.64	QP	

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

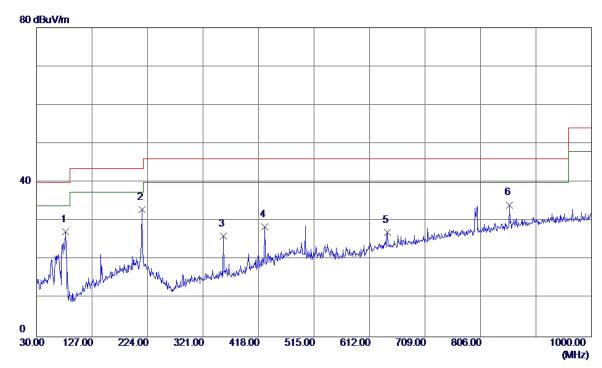
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Test Mode: TX 2402MHz \_CH00\_1Mbps

# **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	80.4400	45. 42	-18. 25	27. 17	40.00	-12.83	Peak	
2 *	214. 3000	46. 92	-13. 95	32.97	43.50	-10. 53	Peak	
3	356. 8900	37.94	-11.87	26. 07	46.00	-19. 93	Peak	
4	428.6700	38. 99	-10. 55	28. 44	46.00	-17. 56	Peak	
5	643.0400	32.72	-5. 61	27.11	46.00	-18.89	Peak	
6	856. 4400	34. 03	0. 13	34. 16	46.00	-11.84	Peak	

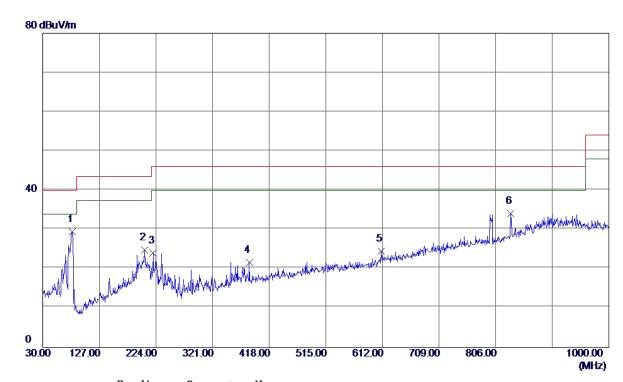
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Test Mode: TX 2402MHz \_CH00\_1Mbps

# **Horizontal**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	80.4400	47.74	<b>−18. 25</b>	29. 49	40.00	-10. 51	Peak	
2	204.6000	38. 59	-13.85	24.74	43.50	-18.76	Peak	
3	219. 1500	37.87	-13. 91	23. 96	46.00	-22. 04	Peak	
4	384.0500	33. 19	-11. 55	21.64	46.00	-24.36	Peak	
5	610.0600	30.71	-6. 23	24.48	46.00	-21. 52	Peak	
6	832. 1900	34. 54	-0.48	34.06	46.00	-11. 94	Peak	

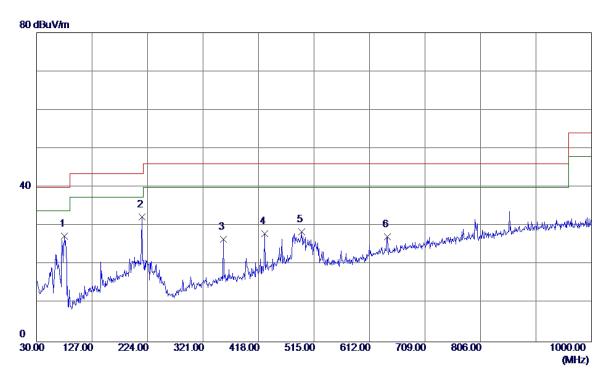
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Test Mode: TX 2440MHz \_CH19\_1Mbps

# **Vertical**



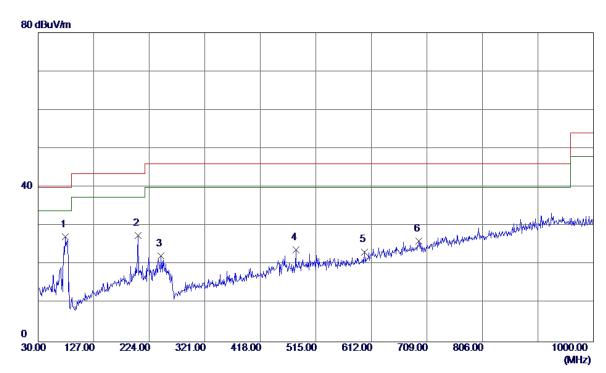
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	78. 5000	45. 32	-17.89	27.43	40.00	-12.57	Peak	
2 *	214. 3000	46. 21	-13. 95	32. 26	43.50	-11. 24	Peak	
3	356. 8900	38. 48	-11.87	26. 61	46.00	-19.39	Peak	
4	428.6700	38. 51	-10. 55	27.96	46.00	-18.04	Peak	
5	493. 6600	37. 34	-8.87	28. 47	46.00	-17. 53	Peak	
6	643.0400	32. 82	-5. 61	27. 21	46.00	-18.79	Peak	

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# **Horizontal**



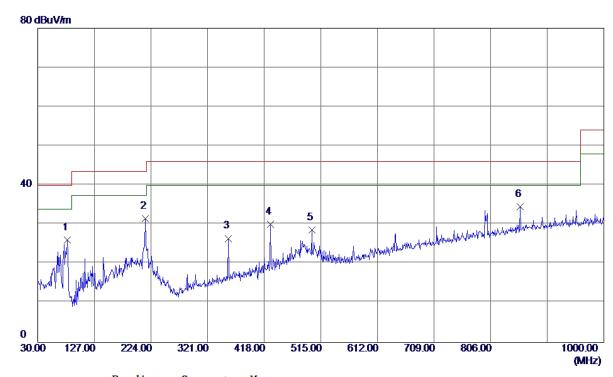
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	77. 5300	44.83	-17.67	27. 16	40.00	-12.84	Peak	
2	204.6000	41.42	-13.85	27. 57	43.50	-15.93	Peak	
3	244. 3700	36. 90	-14.59	22. 31	46.00	-23.69	Peak	
4	480. 0800	32. 98	-9. 21	23.77	46.00	-22. 23	Peak	
5	600. 3600	29. 69	-6.41	23. 28	46.00	-22.72	Peak	
6	695. 4200	30. 10	-4.08	26. 02	46.00	-19. 98	Peak	

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# **Vertical**



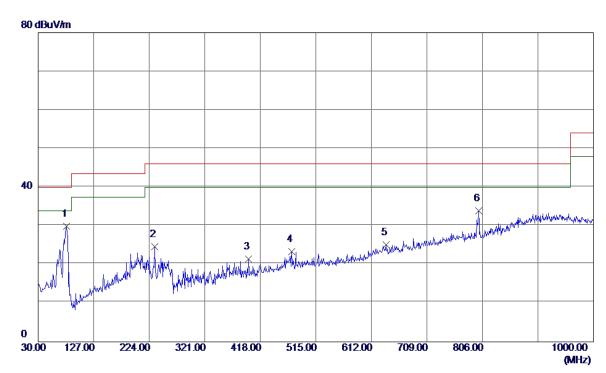
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	80. 4400	44.34	-18. 25	26. 09	40.00	-13.91	Peak	
2	214. 3000	45. 48	-13. 95	31. 53	43.50	-11.97	Peak	
3	356. 8900	38. 35	-11. 87	26. 48	46.00	-19. 52	Peak	
4	428.6700	40. 57	-10. 55	30.02	46.00	-15. 98	Peak	
5	499. 4800	37. 37	-8. 73	28. 64	46.00	-17. 36	Peak	
6 *	856. 4400	34. 39	0. 13	34. 52	46.00	-11.48	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 *	79.4700	48.00	-18. 12	29.88	40.00	-10. 12	Peak	
2	233.7000	38. 79	-14. 22	24. 57	46.00	-21.43	Peak	
3	397.6300	32.85	-11. 39	21.46	46.00	-24.54	Peak	
4	473. 2900	32.72	-9. 37	23. 35	46.00	-22.65	Peak	
5	638. 1900	30.76	-5. 70	25. 06	46.00	-20.94	Peak	
6	799. 2100	35. 25	-1. 38	33. 87	46.00	-12. 13	Peak	

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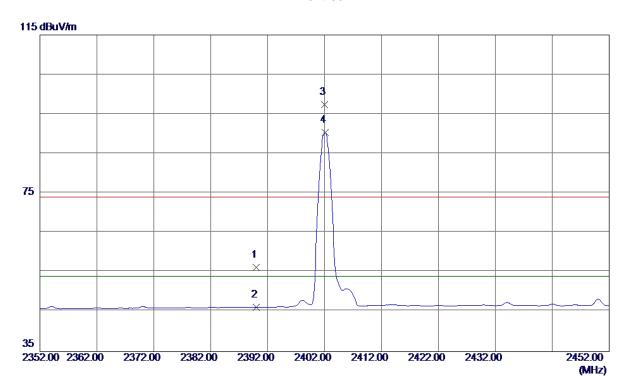
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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## Vertical



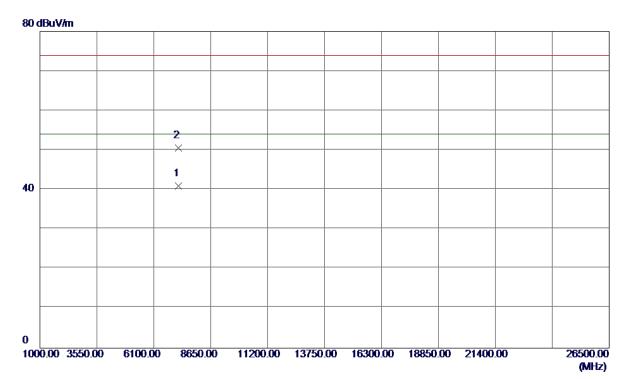
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23. 29	33.06	56. 35	74.00	-17.65	Peak	
2	2390.0000	13. 20	33. 06	46. 26	54.00	<b>-7.74</b>	AVG	
3	2402.0000	64. 27	33. 10	97. 37	74.00	23. 37	Peak	No Limit
4 *	2402. 1000	57. 30	33. 10	90. 40	54.00	36. 40	AVG	No Limit

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#### Vertical



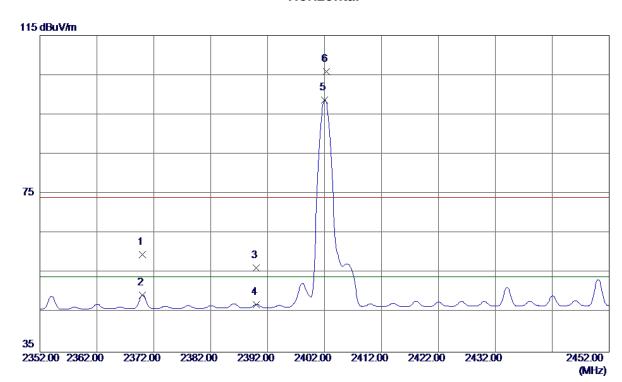
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7206.6100	27.75	13. 20	40.95	54.00	-13.05	AVG	
2	7206.8720	37. 33	13. 20	50. 53	74.00	-23.47	Peak	

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#### Horizontal



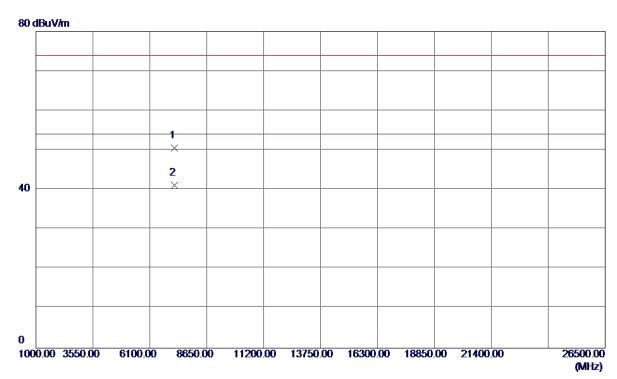
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2370.0000	26. 64	32. 98	59. 62	74.00	-14. 38	Peak	
2	2370.0000	16. 39	32. 98	49. 37	54.00	-4.63	AVG	
3	2390.0000	23. 29	33.06	56. 35	74.00	-17.65	Peak	
4	2390.0000	13. 98	33. 06	47.04	54.00	-6. 96	AVG	
5 *	2402.0000	65. 53	33. 10	98. 63	54.00	44.63	AVG	No Limit
6	2402. 3000	72. 82	33. 10	105. 92	74.00	31. 92	Peak	No Limit

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#### Horizontal



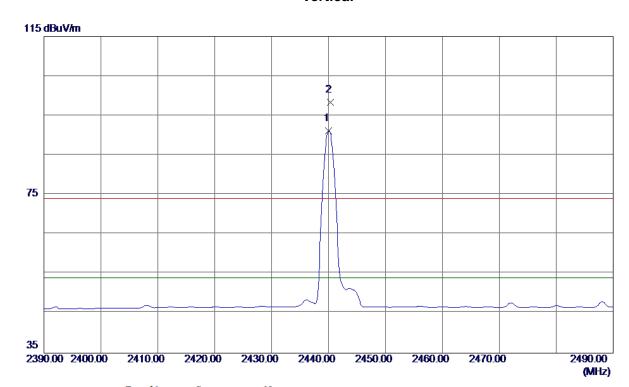
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	7205. 1260	37. 33	13. 20	50. 53	74.00	-23.47	Peak	
2 *	7206. 5040	27.89	13. 20	41.09	54.00	-12.91	AVG	

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#### Vertical



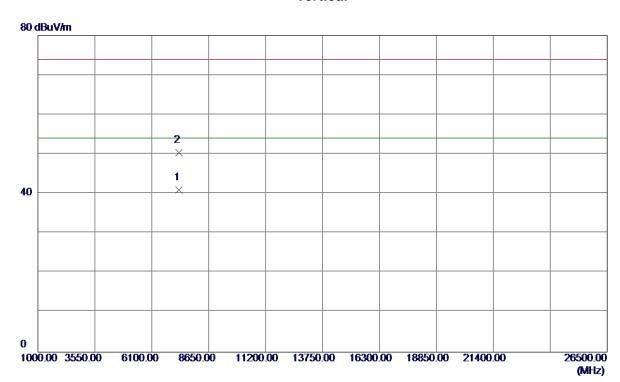
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2440.0000	57.85	33. 24	91.09	54.00	37.09	AVG	No Limit
2	2440. 3000	65. 09	33. 25	98. 34	74.00	24.34	Peak	No Limit

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#### Vertical



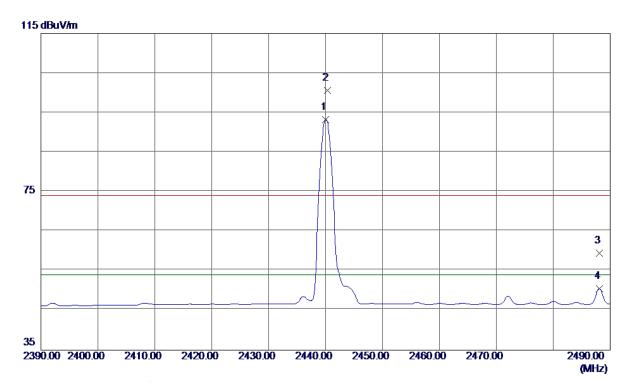
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7320. 5920	27.61	13. 39	41.00	54.00	-13.00	AVG	
2	7320. 8780	37.06	13. 39	50. 45	74.00	-23. 55	Peak	

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#### Horizontal



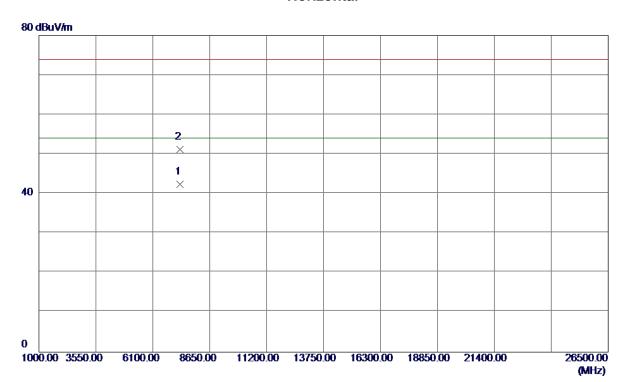
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2440.0000	59. 97	33. 24	93. 21	54.00	39. 21	AVG	No Limit
2	2440. 3000	67.41	33. 25	100.66	74.00	26.66	Peak	No Limit
3	2488. 1000	26. 05	33. 43	59.48	74.00	-14.52	Peak	
4	2488. 1000	17.05	33. 43	<b>50.</b> 48	54.00	-3. 52	AVG	

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#### Horizontal



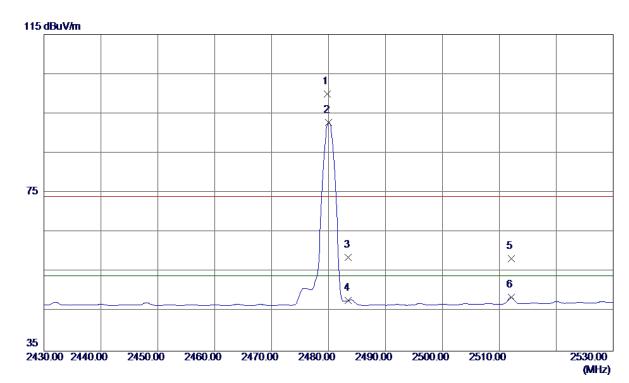
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	7320.6660	28. 98	13. 39	42. 37	54.00	-11.63	AVG	
2	7320. 7020	37.74	13. 39	51. 13	74.00	-22.87	Peak	

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#### Vertical



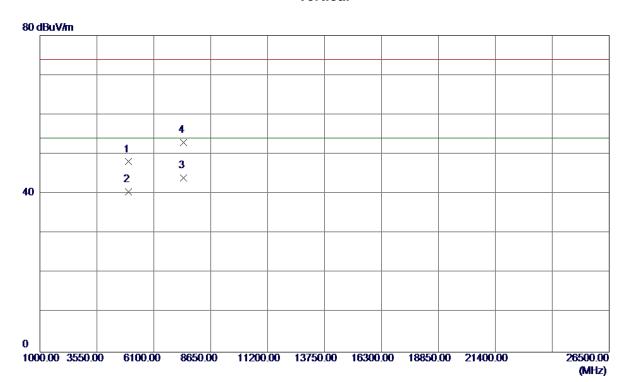
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479. 8000	66. 56	33. 39	99. 95	74.00	25. 95	Peak	No Limit
2 *	2480. 0000	59. 40	33. 39	92. 79	54.00	38. 79	AVG	No Limit
3	2483. 5000	25. 26	33.41	58. 67	74.00	-15. 33	Peak	
4	2483. 5000	14. 33	33. 41	47.74	54.00	-6. 26	AVG	
5	2512. 1000	24.85	33. 52	58. 37	74.00	-15.63	Peak	
6	2512. 1000	15. 01	33. 52	48. 53	54.00	-5. 47	AVG	

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#### Vertical



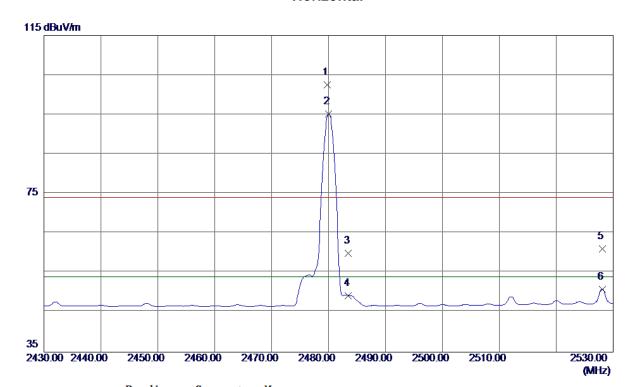
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
1	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4959. 4440	41. 42	6. 66	48. 08	74.00	-25. 92	Peak	
2	4959. 8720	33.75	6. 66	40.41	54.00	-13.59	AVG	
3 *	7439. 4380	30. 43	13. 59	44.02	54.00	-9. 98	AVG	
4	7439. 4920	39. 36	13. 59	52. 95	74.00	-21 <b>. 0</b> 5	Peak	

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#### Horizontal



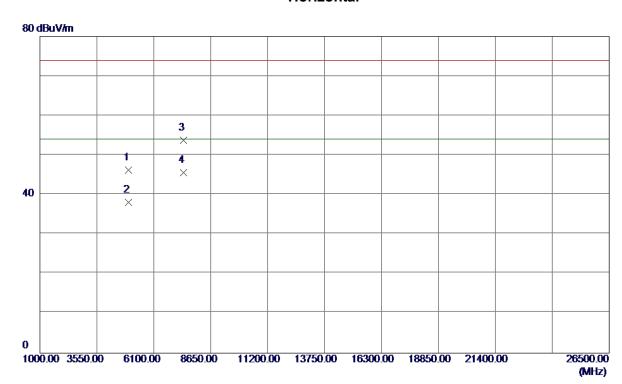
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479.8000	69. 08	33. 39	102. 47	74.00	28. 47	Peak	No Limit
2 *	2480.0000	61.72	33. 39	95. 11	54.00	41.11	AVG	No Limit
3	2483. 5000	26. 57	33.41	59. 98	74.00	-14.02	Peak	
4	2483. 5000	15. 90	33.41	49. 31	54.00	-4.69	AVG	
5	2528. 1000	27. 43	33. 58	61. 01	74.00	-12.99	Peak	
6	2528. 1000	17. 30	33. 58	50.88	54.00	-3. 12	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	4959.7260	39.65	6. 66	46. 31	74.00	-27.69	Peak	
2	4959.8680	31. 45	6. 66	38. 11	54.00	-15.89	AVG	
3	7439. 3320	40. 16	13. 58	53.74	74.00	-20. 26	Peak	
4 *	7439. 3720	32. 02	13. 59	45. 61	54.00	-8. 39	AVG	

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APPENDIX E - BANDWIDTH

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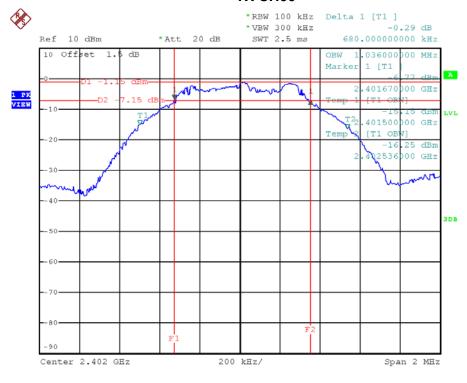




Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.680	1.036	500	Pass
2440	0.672	1.036	500	Pass
2480	0.688	1.036	500	Pass

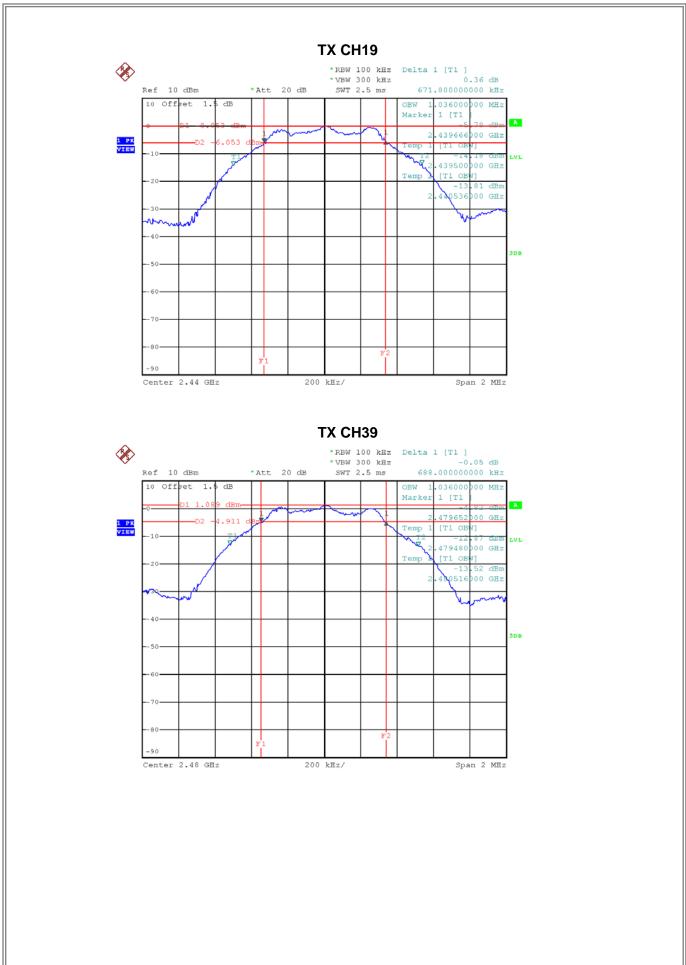
#### **TX CH00**



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APPENDIX F - MAXIMUM OUTPUT POWER

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Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	-0.64	0.0009	30.00	1.00	Pass
2440	0.33	0.0011	30.00	1.00	Pass
2480	1.47	0.0014	30.00	1.00	Pass

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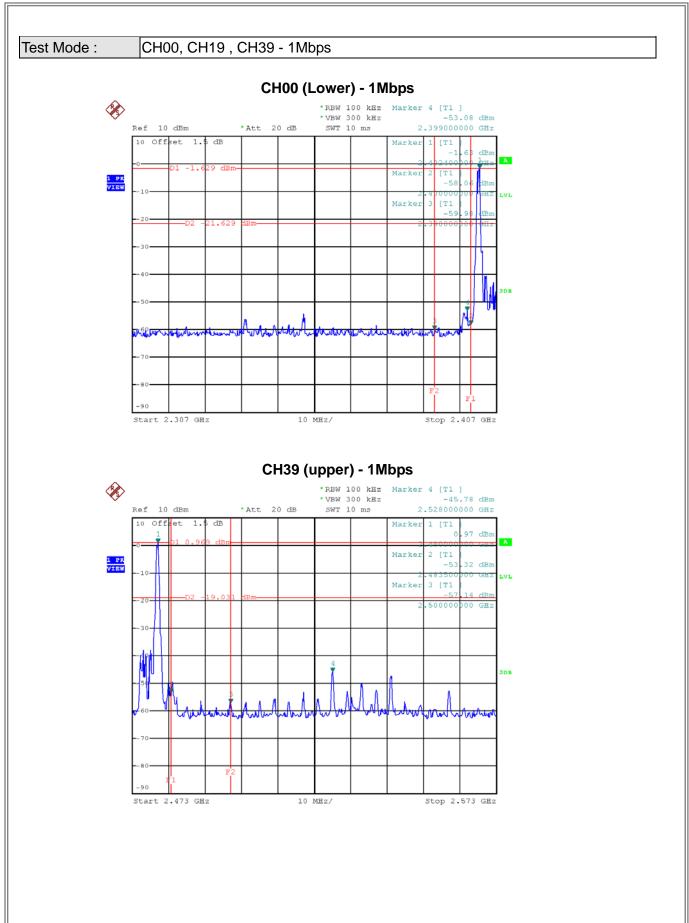


APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

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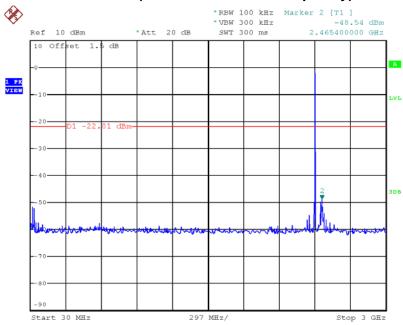




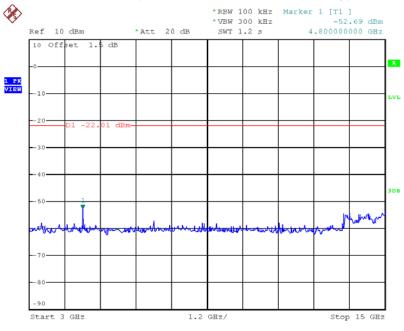








## CH00 (10 Harmonic of the frequency) 2

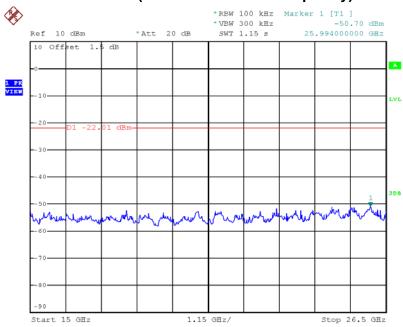


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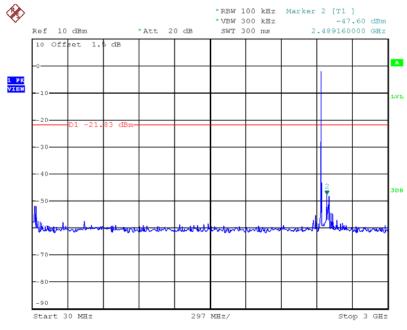








## CH19 (10 Harmonic of the frequency) 1

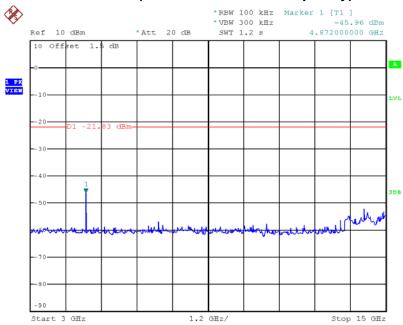


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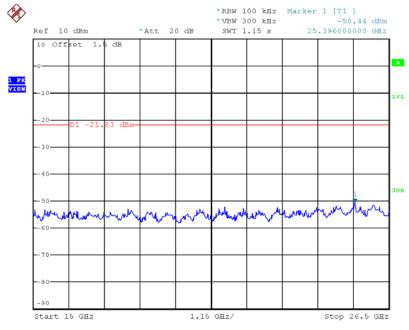








## CH19 (10 Harmonic of the frequency) 3

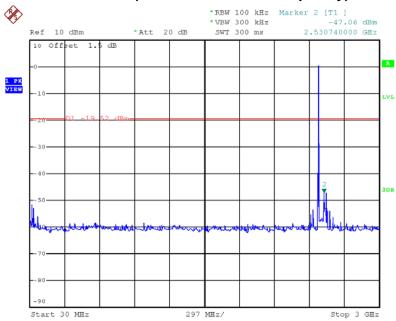


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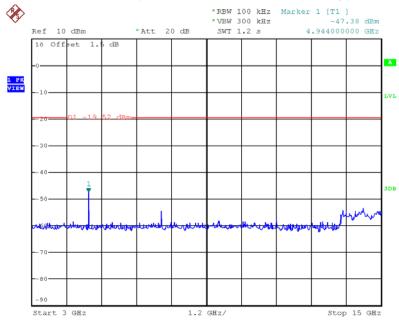








## CH39 (10 Harmonic of the frequency) 2

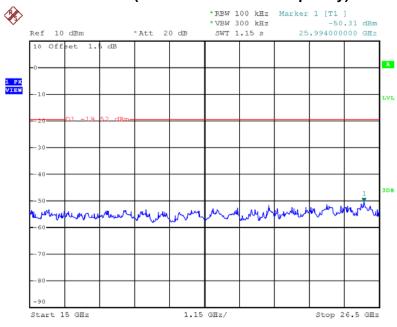


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## CH39 (10 Harmonic of the frequency) 3



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APPENDIX H - POWER SPECTRAL DENSITY TEST

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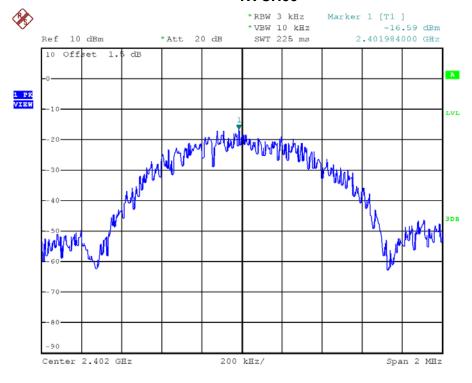




Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-16.590	0.022	8.00	Pass
2440	-15.900	0.026	8.00	Pass
2480	-14.640	0.034	8.00	Pass

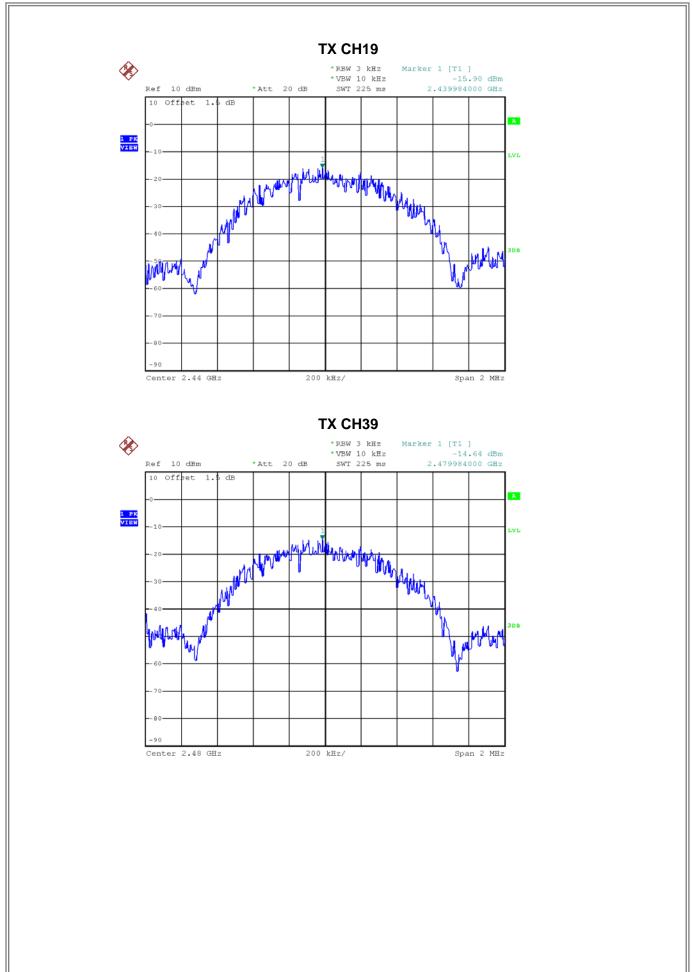
#### TX CH00



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