

# FCC Radio Test Report

## FCC ID: PZ3-SSB

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

**Project No.** : 1312128A  
**Equipment** : Primex Wireless Smart Sync Bridge  
**Test Model** : BC100-E  
**Series Model** : BC100  
**Applicant** : Primex Wireless, Inc.  
**Address** : 965 Wells Street Lake Geneva, WI 53147 United States

**Date of Receipt** : Jan. 05, 2017  
**Date of Test** : Jan. 05, 2017 ~ Jan. 25, 2017  
**Issued Date** : Jan. 26, 2017  
**Tested by** : BTL Inc.

**Testing Engineer** : Rush Kao  
(Rush Kao)

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**Authorized Signatory** : Andy Chiu  
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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1312128A	Original Issue.	Jan. 26, 2017

## 1. CERTIFICATION

Equipment : Primex Wireless Smart Sync Bridge  
Brand Name : Primex  
Test Model : BC100-E  
Series Model : BC100  
Applicant : Primex Wireless, Inc.  
Manufacturer : Top Union Electronics Corp.  
Address : No. 480, Nioupu E.Rd.,Hsinchu,Taiwan.  
Factory : Top Union Electronics Corp.  
Address : No. 480, Nioupu E.Rd.,Hsinchu,Taiwan.  
Date of Test : Jan. 05, 2017 ~ Jan. 25, 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-1-1312128A ) 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).

## 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.

## 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):

**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

## 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  $U_{\text{CISPR}}$  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 (3m)	CISPR	9kHz ~ 150kHz	2.96
		150kHz ~ 30MHz	2.74

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

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)
CB15 (3m)	CISPR	1GHz ~ 6GHz	V	4.48
		1GHz ~ 6GHz	H	4.50
		6GHz ~ 18GHz	V	4.30
		6GHz ~ 18GHz	H	4.14

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (1m)	CISPR	18 ~ 26.5 GHz	4.72
		26.5 ~ 40 GHz	5.20



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.

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Primex Wireless Smart Sync Bridge							
Brand Name	Primex							
Test Model	BC100-E							
Series Model	BC100							
Model Difference	<table border="1"> <thead> <tr> <th>Model Name</th> <th>PoE</th> </tr> </thead> <tbody> <tr> <td>P13770-WB, BC100 bridge POE</td> <td>YES</td> </tr> <tr> <td>Q13770-WB, BC100 bridge</td> <td>NO</td> </tr> </tbody> </table>		Model Name	PoE	P13770-WB, BC100 bridge POE	YES	Q13770-WB, BC100 bridge	NO
	Model Name	PoE						
	P13770-WB, BC100 bridge POE	YES						
Q13770-WB, BC100 bridge	NO							
Power Source	#1 DC voltage supplied from AC/DC adapter. PHIHONG / PSAA050A-050 #2 PoE supplied. #3 Battery supplied.							
Power Rating	#1 I/P: 100-240V~ 200mA 50-60Hz 13-20VA O/P: 5V --- 1A #2 44.0~57.0 V --- #3 3V --- (2 * AA Batteries)							
Product Description	Operation Frequency	2402~2480 MHz						
	Modulation Technology	GFSK(1Mbps)						
	Bit Rate of Transmitter							
	Output Power (Max.)	4.29 dBm (1Mbps)						

Note:

- 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	Taoglas Inc.	Q13952	Dipole	RP-SMA(M)	2.3

### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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:

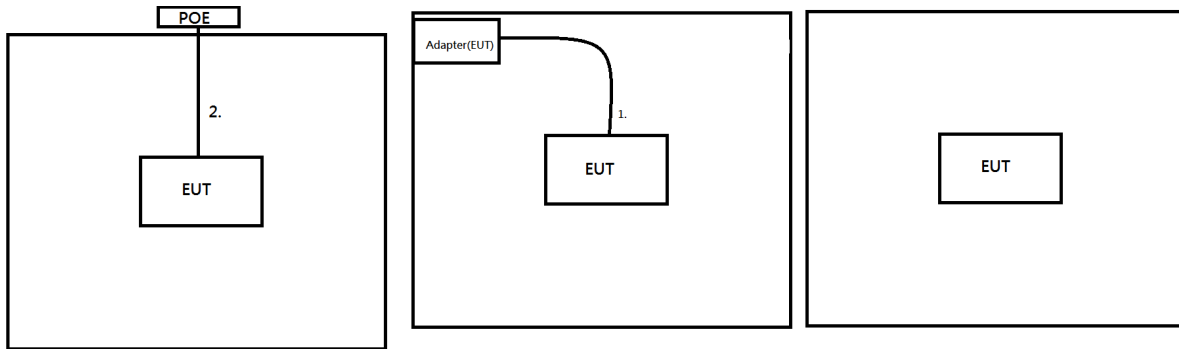
(1) The measurements are performed at the high, middle, low available channels.

### 3.3 TABLE OF PARAMETERS OF TEST 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	Jlink		
Frequency (MHz)	2402	2440	2480
BT LE	DEF	DEF	DEF

### 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	10m	RJ45 cable
2	YES	NO	1.7m	Power cable

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	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

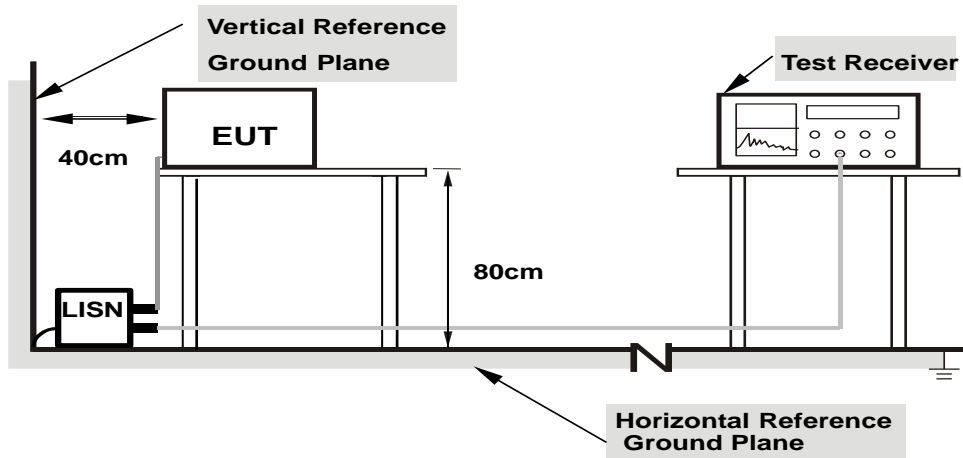
#### 4.1.2 TEST PROCEDURE

- 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

#### 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.

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



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

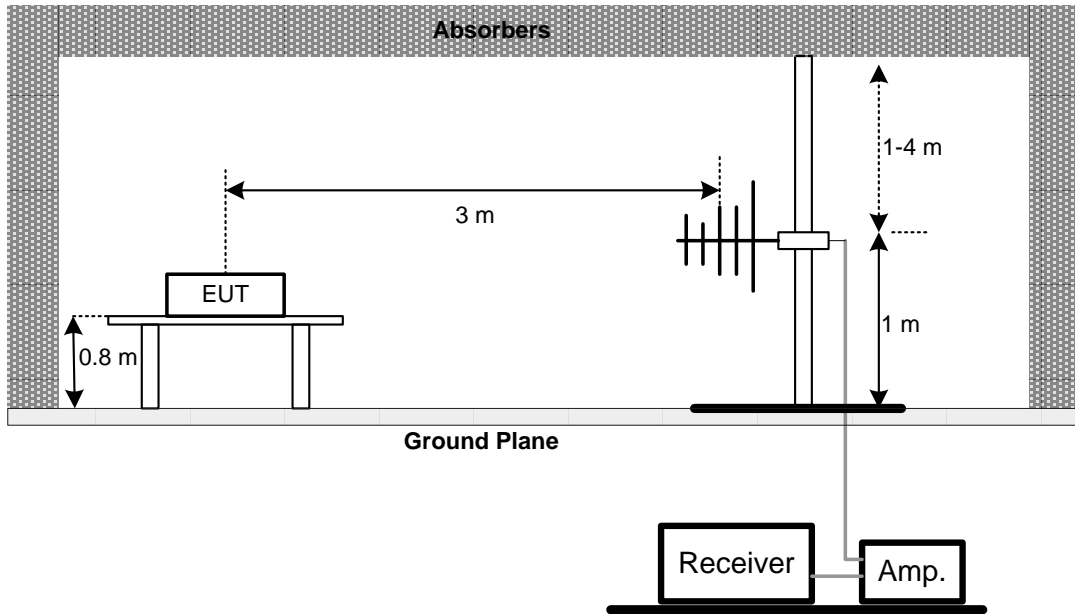
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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

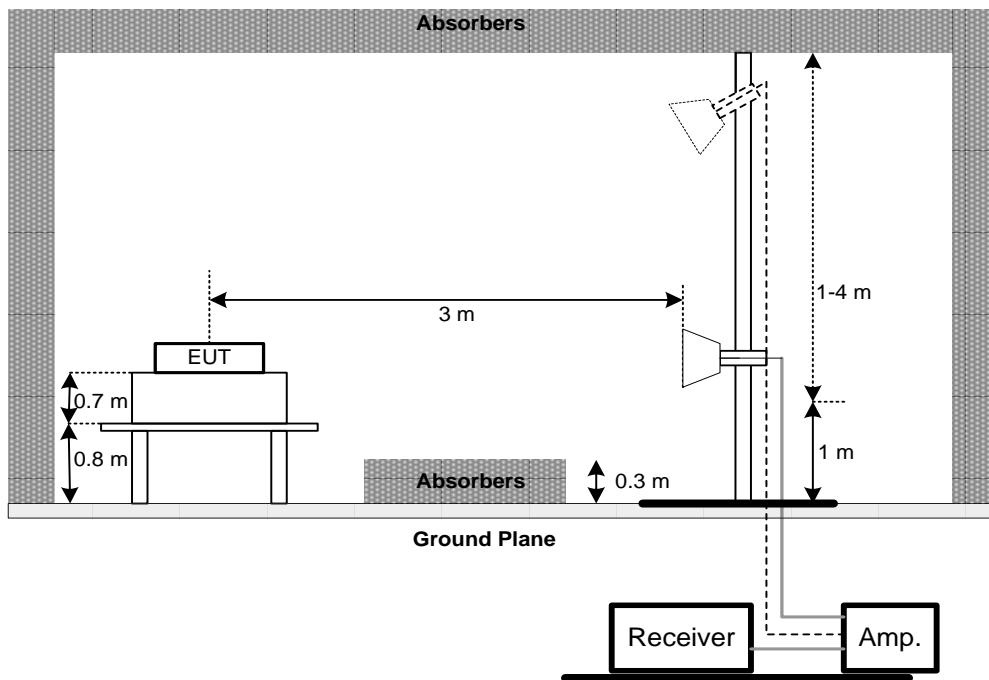
No deviation

**4.2.4 TEST SETUP**

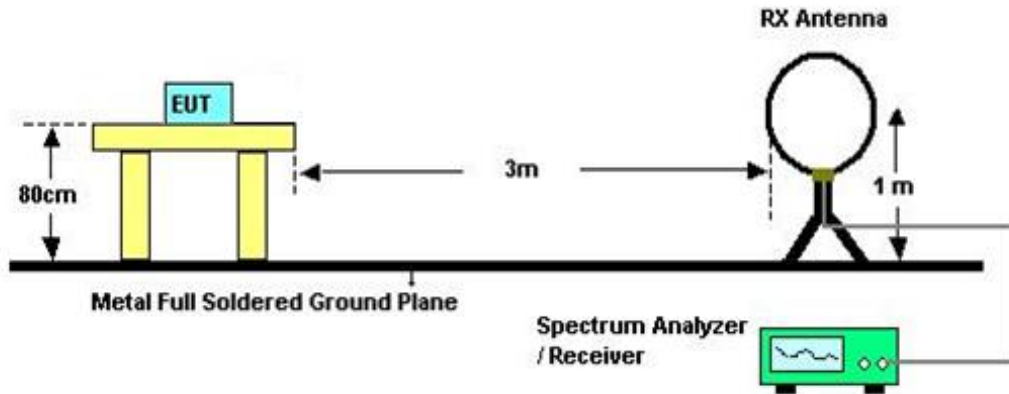
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(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

**4.2.7 TEST 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 =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

**4.2.7 TEST RESULTS (30MHZ TO 1000 MHZ)**

Please refer to the Attachment C.

**4.2.7 TEST 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.

## 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	$\geq 500\text{KHz}$ (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



#### 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.

## 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



#### 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.

## 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

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- 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.

## 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



#### 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.

## 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. 24, 2018
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. 29, 2017
3	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan. 04, 2018
4	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan. 04, 2018
5	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan. 04, 2018
6	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 09, 2018
7	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 23, 2017
8	Loop Ant	EMCO	6502	42960	Nov. 24, 2017
9	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Mar. 01, 2017
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 16, 2018
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 16, 2018

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 26, 2017

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



<b>Antenna Conducted Spurious Emission Measurement</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 26, 2017

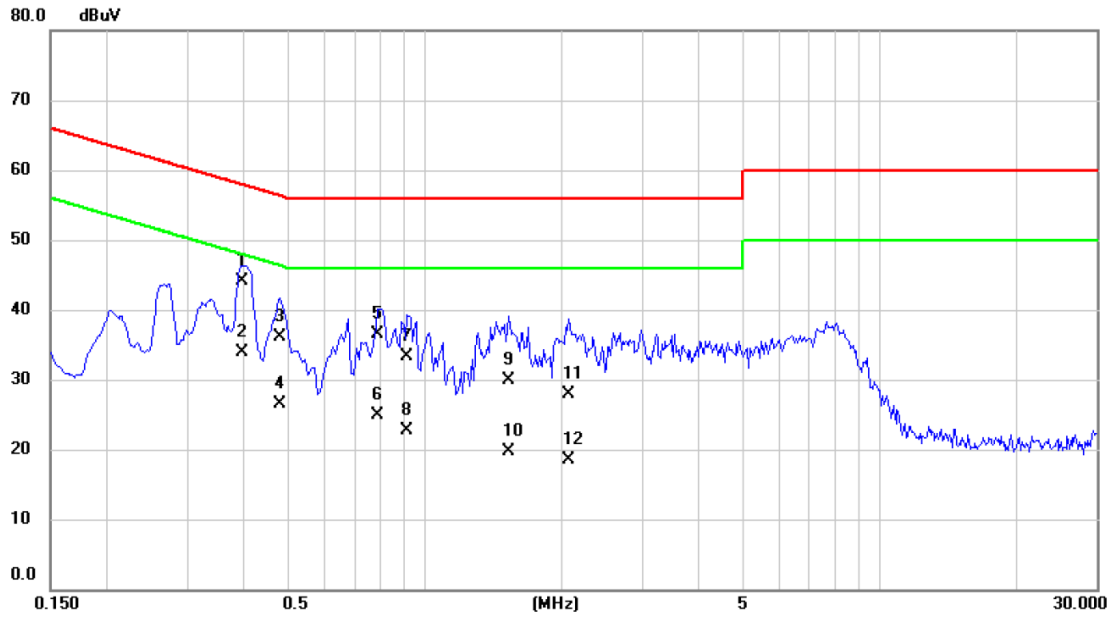
<b>Power Spectral Density Measurement</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 26, 2017

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
 All calibration period of equipment list is one year.

## ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX Mode\_Adapter

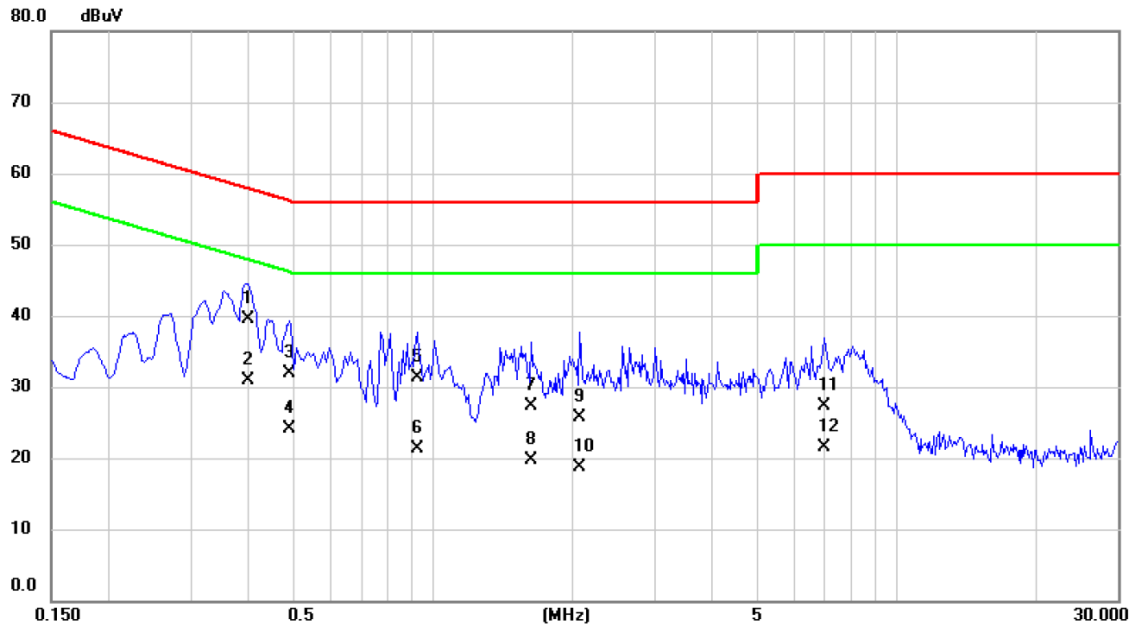
### Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.3970	34.50	9.66	44.16	57.92	-13.76	QP	
2		0.3970	24.20	9.66	33.86	47.92	-14.06	AVG	
3		0.4783	26.40	9.67	36.07	56.37	-20.30	QP	
4		0.4783	16.90	9.67	26.57	46.37	-19.80	AVG	
5		0.7880	26.80	9.67	36.47	56.00	-19.53	QP	
6		0.7880	15.20	9.67	24.87	46.00	-21.13	AVG	
7		0.9140	23.60	9.67	33.27	56.00	-22.73	QP	
8		0.9140	13.00	9.67	22.67	46.00	-23.33	AVG	
9		1.5260	20.20	9.71	29.91	56.00	-26.09	QP	
10		1.5260	10.00	9.71	19.71	46.00	-26.29	AVG	
11		2.0660	18.10	9.73	27.83	56.00	-28.17	QP	
12		2.0660	8.70	9.73	18.43	46.00	-27.57	AVG	

Test Mode: TX Mode\_Adapter

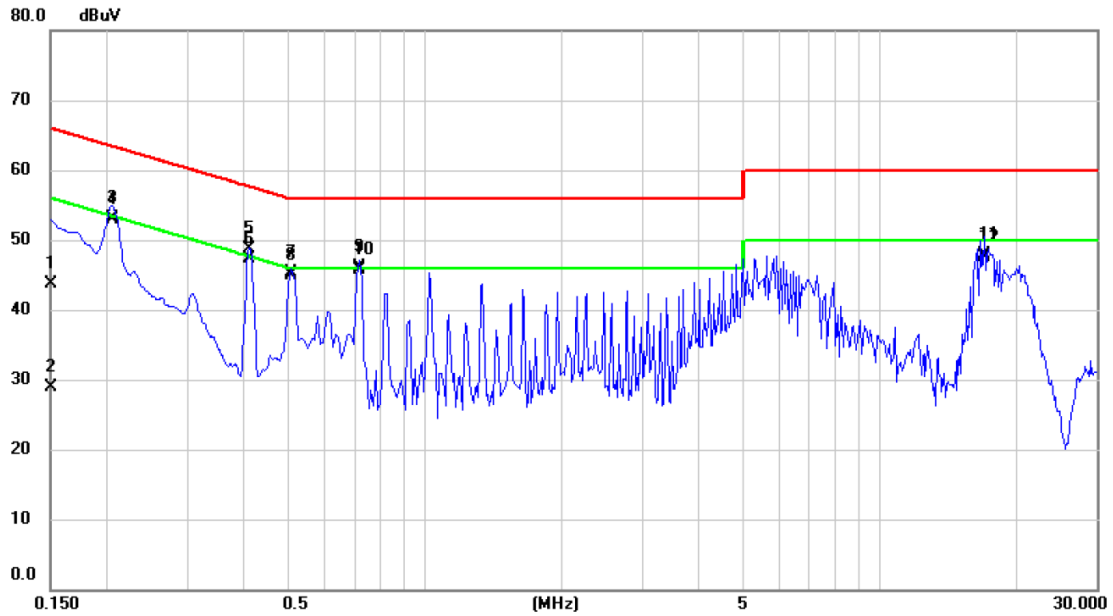
### Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.3985	29.90	9.66	39.56	57.88	-18.32	QP	
2	*	0.3985	21.20	9.66	30.86	47.88	-17.02	AVG	
3		0.4910	22.20	9.67	31.87	56.15	-24.28	QP	
4		0.4910	14.50	9.67	24.17	46.15	-21.98	AVG	
5		0.9230	21.60	9.68	31.28	56.00	-24.72	QP	
6		0.9230	11.70	9.68	21.38	46.00	-24.62	AVG	
7		1.6250	17.60	9.72	27.32	56.00	-28.68	QP	
8		1.6250	9.90	9.72	19.62	46.00	-26.38	AVG	
9		2.0660	16.00	9.74	25.74	56.00	-30.26	QP	
10		2.0660	8.90	9.74	18.64	46.00	-27.36	AVG	
11		7.0000	17.40	9.83	27.23	60.00	-32.77	QP	
12		7.0000	11.60	9.83	21.43	50.00	-28.57	AVG	

Test Mode: TX Mode\_PoE

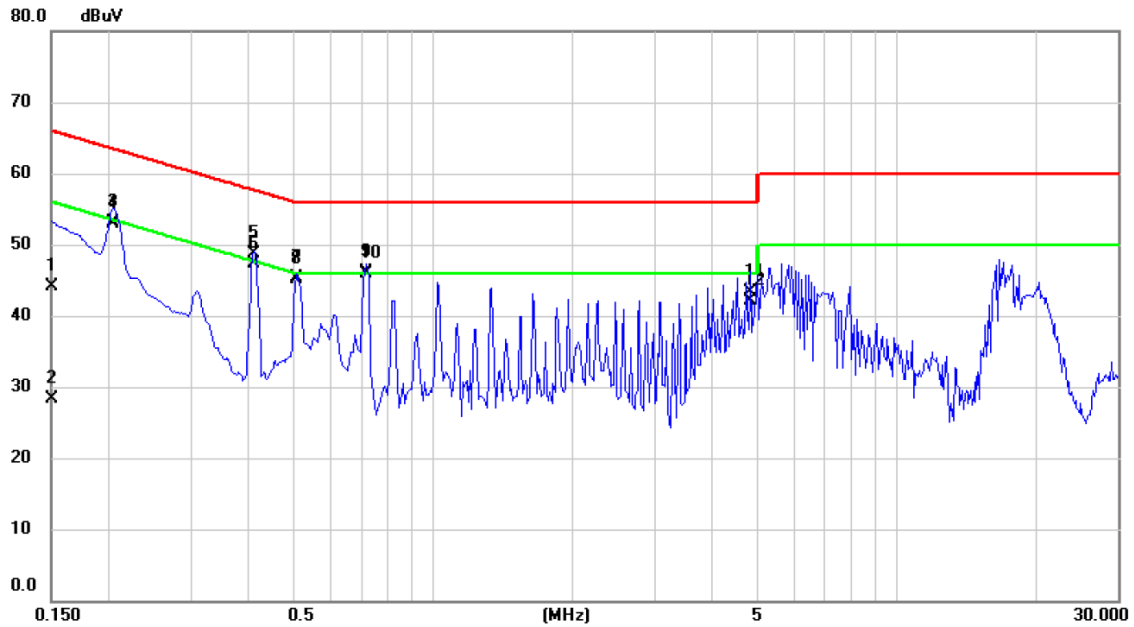
### Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	34.10	9.66	43.76	66.00	-22.24	QP	
2		0.1500	19.30	9.66	28.96	56.00	-27.04	AVG	
3		0.2053	43.50	9.66	53.16	63.39	-10.23	QP	
4		0.2053	43.20	9.66	52.86	53.39	-0.53	AVG	
5		0.4118	39.00	9.66	48.66	57.61	-8.95	QP	
6		0.4118	37.70	9.66	47.36	47.61	-0.25	AVG	
7		0.5090	35.60	9.67	45.27	56.00	-10.73	QP	
8		0.5090	35.30	9.67	44.97	46.00	-1.03	AVG	
9		0.7160	36.40	9.67	46.07	56.00	-9.93	QP	
10	*	0.7160	36.10	9.67	45.77	46.00	-0.23	AVG	
11		16.9500	38.00	9.95	47.95	60.00	-12.05	QP	
12		16.9500	37.50	9.95	47.45	50.00	-2.55	AVG	

Test Mode: TX Mode\_PoE

### Neutral



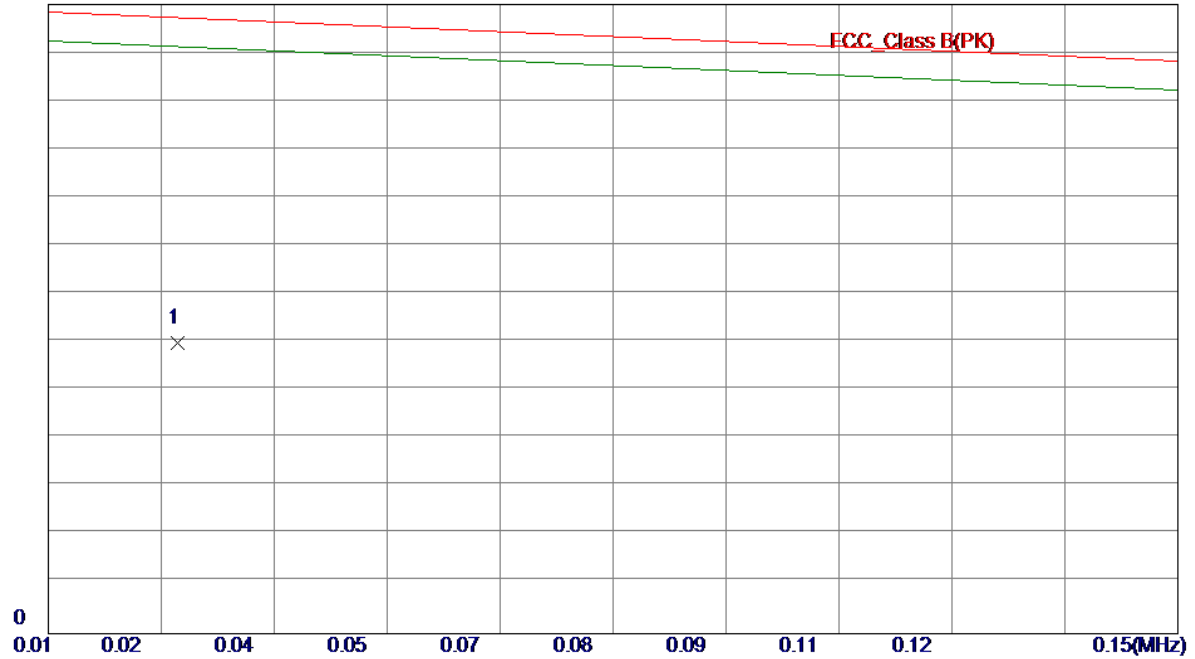
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	34.40	9.67	44.07	66.00	-21.93	QP	
2		0.1500	18.70	9.67	28.37	56.00	-27.63	AVG	
3		0.2046	43.50	9.66	53.16	63.42	-10.26	QP	
4		0.2046	43.20	9.66	52.86	53.42	-0.56	AVG	
5		0.4118	39.00	9.66	48.66	57.61	-8.95	QP	
6		0.4118	37.70	9.66	47.36	47.61	-0.25	AVG	
7		0.5090	35.70	9.67	45.37	56.00	-10.63	QP	
8		0.5090	35.40	9.67	45.07	46.00	-0.93	AVG	
9		0.7160	36.50	9.68	46.18	56.00	-9.82	QP	
10	*	0.7160	36.20	9.68	45.88	46.00	-0.12	AVG	
11		4.8380	33.40	9.82	43.22	56.00	-12.78	QP	
12		4.8380	32.20	9.82	42.02	46.00	-3.98	AVG	

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

Test Mode: TX Mode\_Adapter

Ant 0°

130 dBuV/m



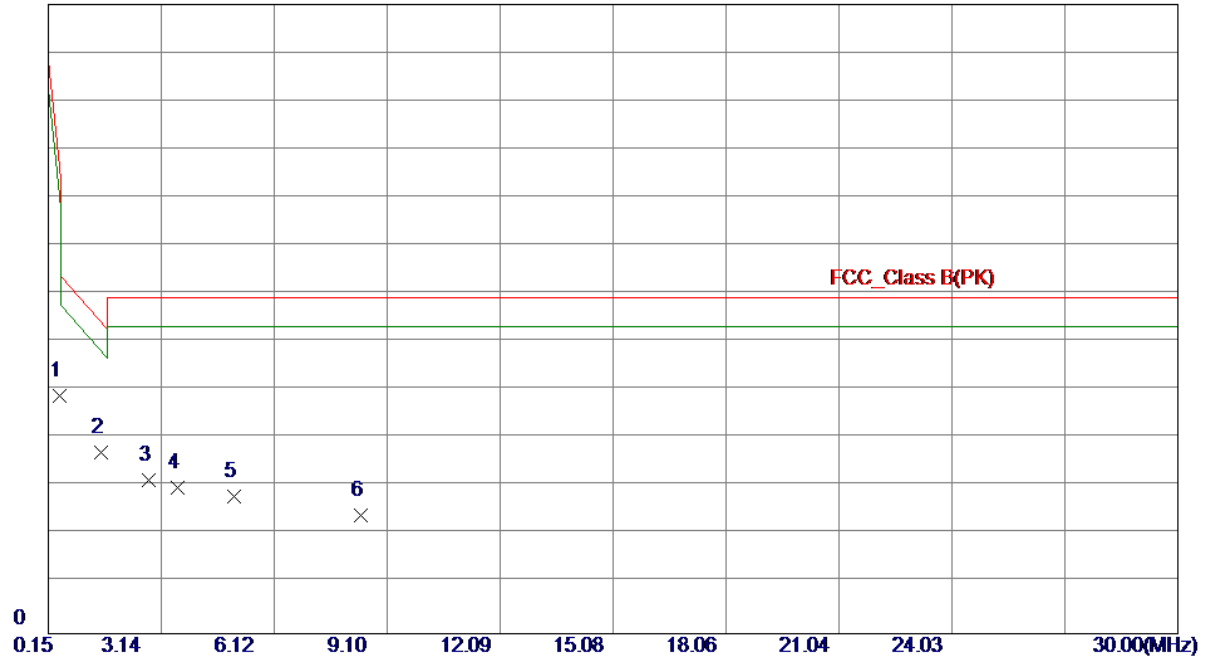
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0251	43.66	16.33	59.99	127.35	-67.36	Peak	



Test Mode: TX Mode\_Adapter

Ant 0°

130 dBuV/m

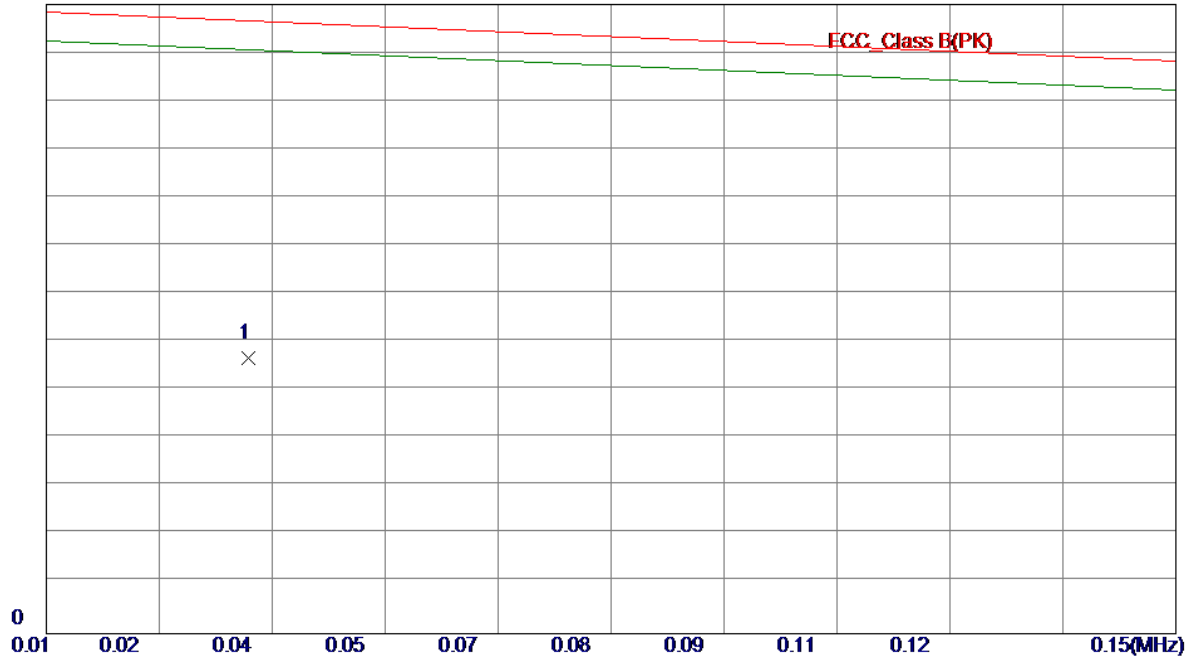


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.4485	37.41	11.80	49.21	96.79	-47.58	Peak	
2 *	1.5530	25.58	11.75	37.33	64.32	-26.99	Peak	
3	2.8065	20.46	11.19	31.65	69.54	-37.89	Peak	
4	3.5825	18.91	11.19	30.10	69.54	-39.44	Peak	
5	5.0750	16.98	11.40	28.38	69.54	-41.16	Peak	
6	8.4184	13.23	11.33	24.56	69.54	-44.98	Peak	

Test Mode: TX Mode\_Adapter

Ant 90°

130 dBuV/m

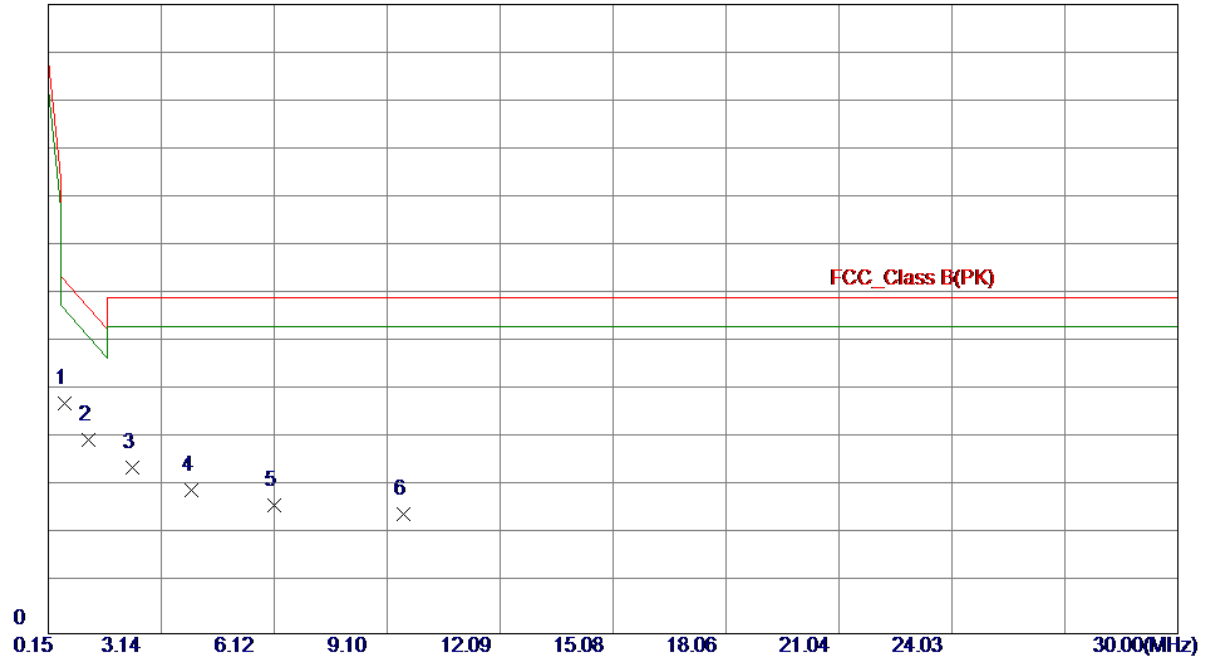


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0342	42.26	14.57	56.83	126.69	-69.86	Peak	

Test Mode: TX Mode\_Adapter

Ant 90°

130 dBuV/m

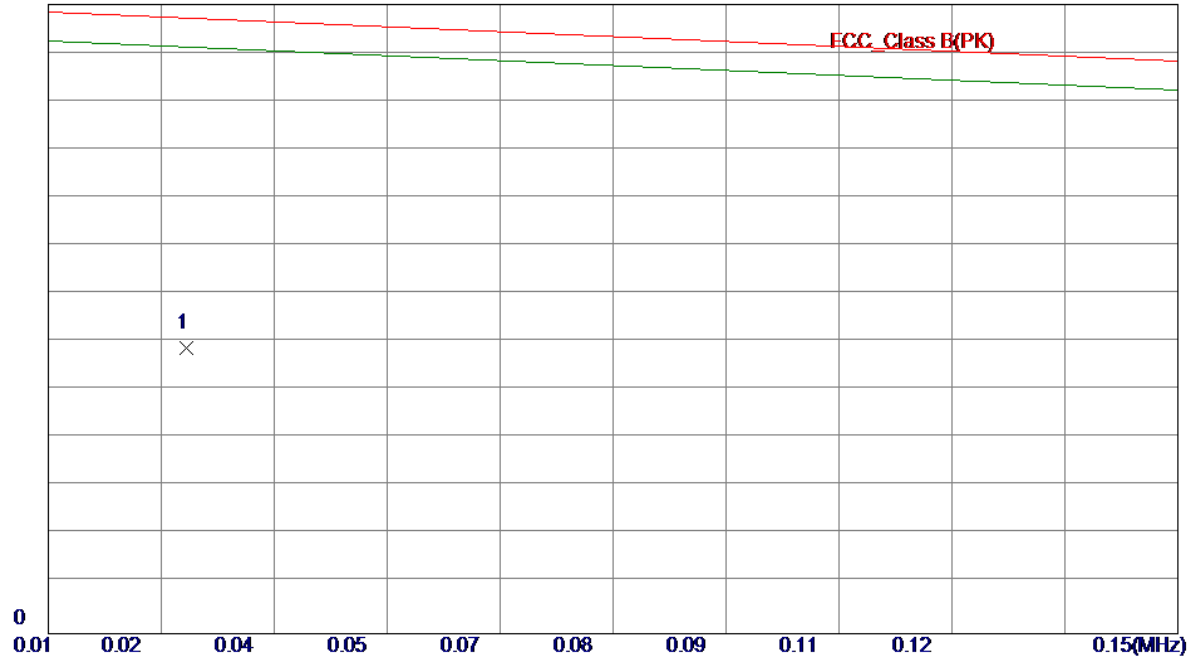


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.5675	35.78	11.83	47.61	73.11	-25.50	Peak	
2	1.2240	28.18	11.90	40.08	67.26	-27.18	Peak	
3	2.3887	22.98	11.38	34.36	69.54	-35.18	Peak	
4	3.9410	18.34	11.24	29.58	69.54	-39.96	Peak	
5	6.1200	15.19	11.38	26.57	69.54	-42.97	Peak	
6	9.5228	13.44	11.31	24.75	69.54	-44.79	Peak	

Test Mode: TX Mode\_PoE

Ant 0°

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0263	43.11	15.99	59.10	127.26	-68.16	Peak	

Test Mode: TX Mode\_PoE

Ant 0°

130 dBuV/m

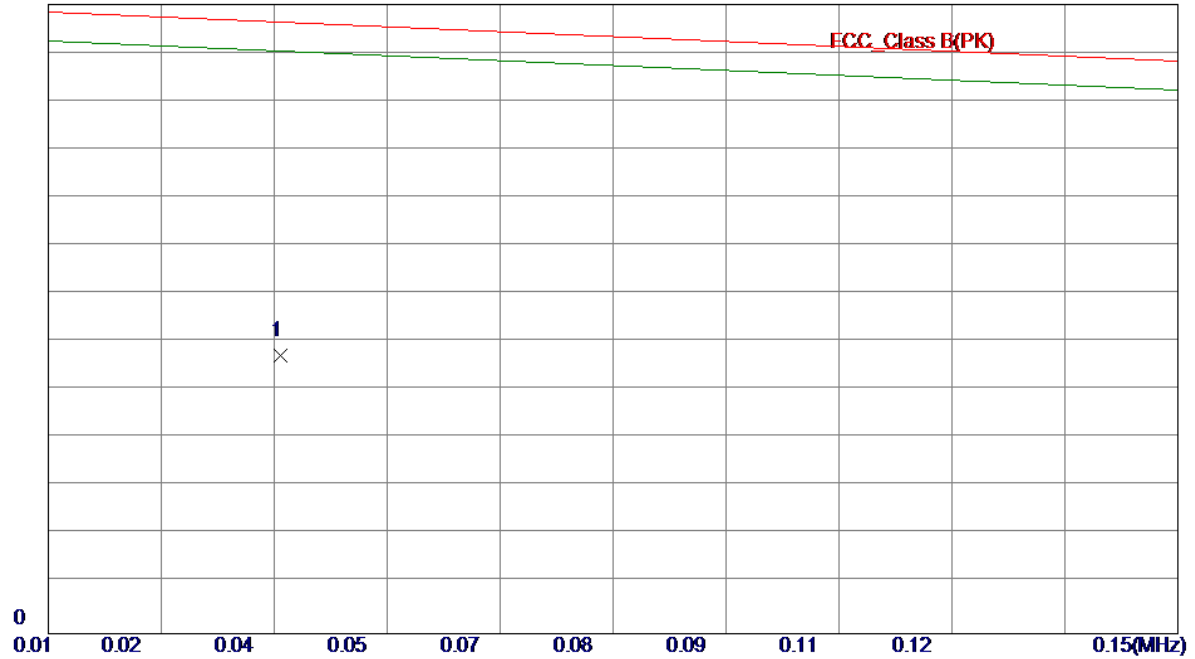


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.8064	32.31	11.92	44.23	70.98	-26.75	Peak	
2	1.8810	24.44	11.60	36.04	69.54	-33.50	Peak	
3	4.3290	18.38	11.30	29.68	69.54	-39.86	Peak	
4	5.5230	15.90	11.39	27.29	69.54	-42.25	Peak	
5	9.2543	12.76	11.31	24.07	69.54	-45.47	Peak	
6	15.3734	10.32	11.14	21.46	69.54	-48.08	Peak	

Test Mode: TX Mode\_PoE

Ant 90°

130 dBuV/m

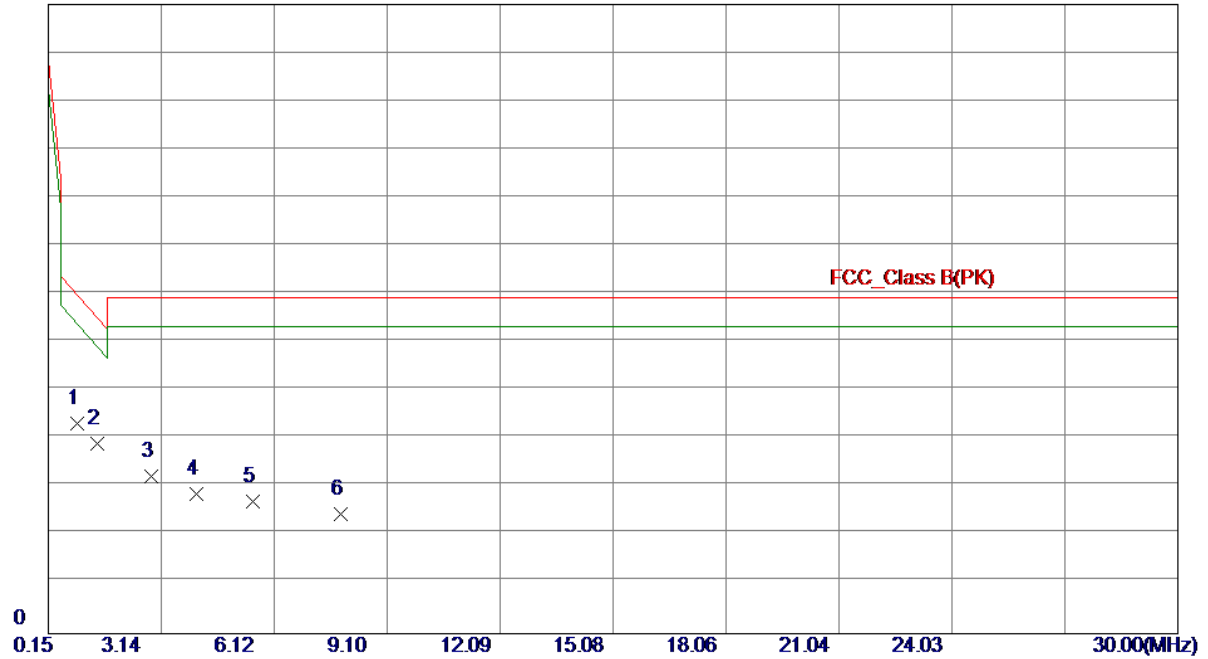


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0380	43.21	14.19	57.40	126.42	-69.02	Peak	

Test Mode: TX Mode\_PoE

Ant 90°

130 dBuV/m

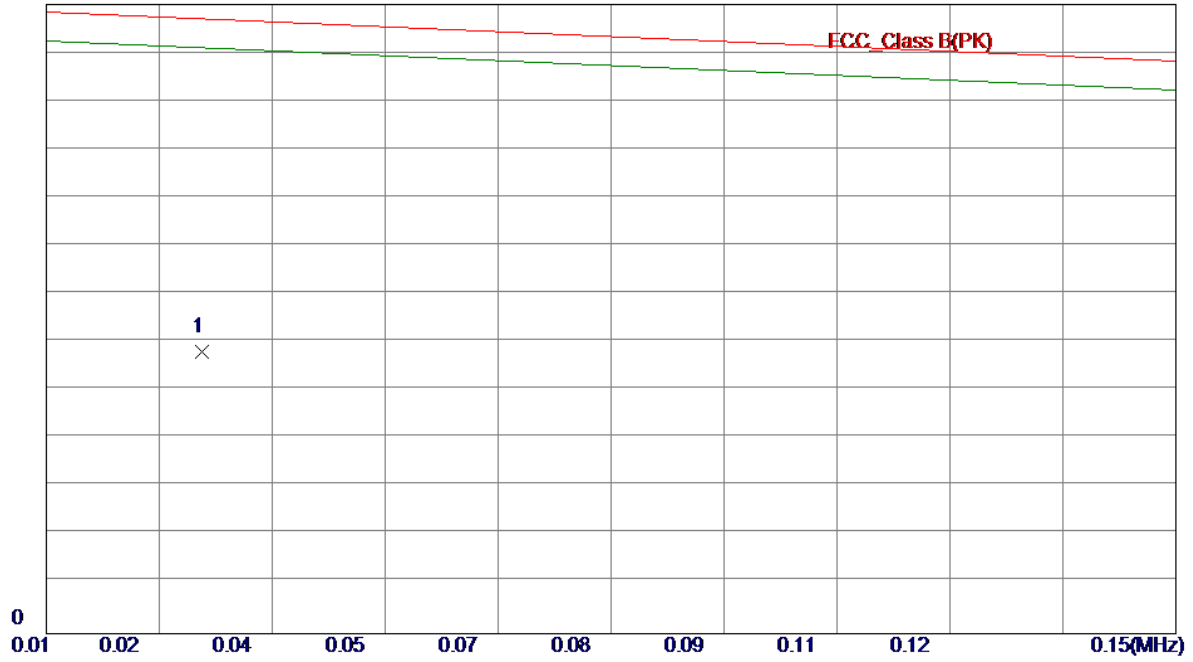


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.9261	31.48	11.97	43.45	69.91	-26.46	Peak	
2 *	1.4334	27.49	11.80	39.29	65.39	-26.10	Peak	
3	2.8664	21.25	11.16	32.41	69.54	-37.13	Peak	
4	4.0602	17.63	11.26	28.89	69.54	-40.65	Peak	
5	5.5529	15.80	11.39	27.19	69.54	-42.35	Peak	
6	7.8810	13.41	11.34	24.75	69.54	-44.79	Peak	

Test Mode: TX Mode\_Battery

Ant 0°

130 dBuV/m



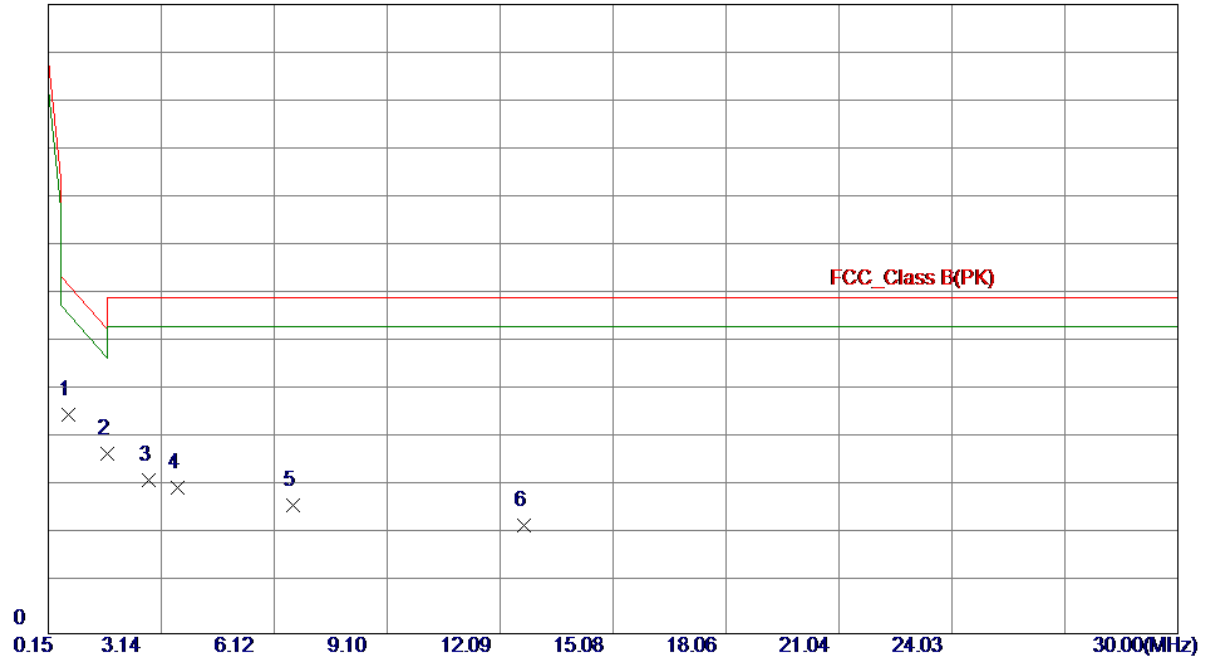
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0285	42.95	15.39	58.34	127.11	-68.77	Peak	



Test Mode: TX Mode\_Battery

Ant 0°

130 dBuV/m

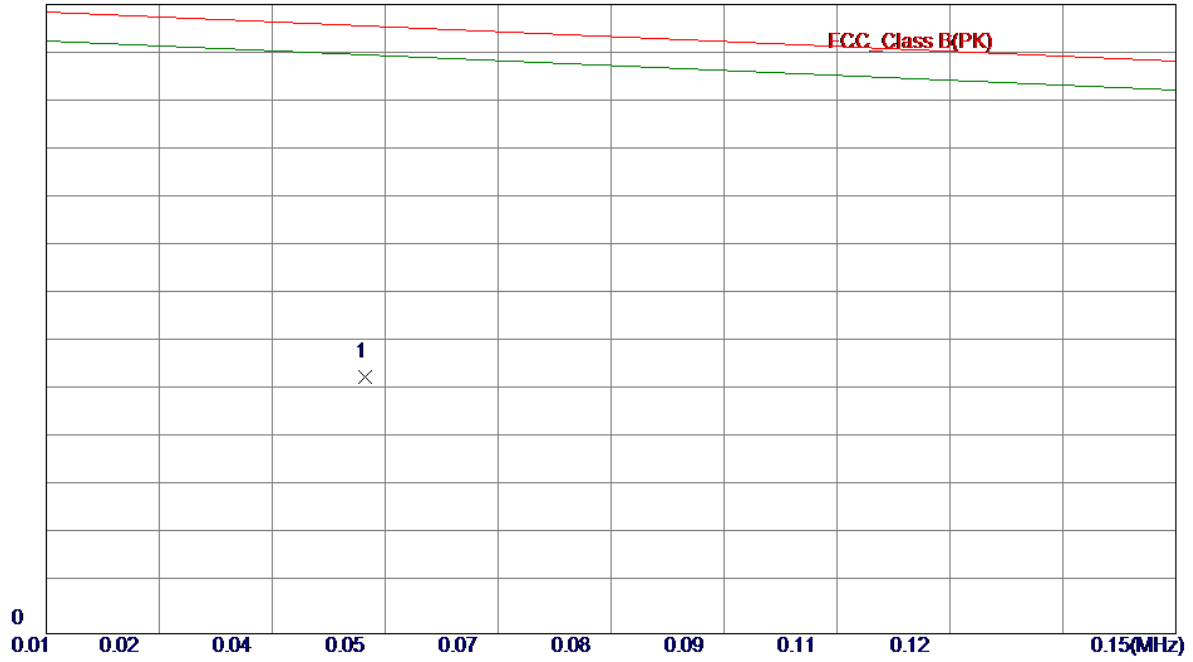


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.6873	33.26	11.87	45.13	72.04	-26.91	Peak	
2 *	1.7020	25.41	11.68	37.09	63.00	-25.91	Peak	
3	2.8065	20.46	11.19	31.65	69.54	-37.89	Peak	
4	3.5825	18.91	11.19	30.10	69.54	-39.44	Peak	
5	6.6272	15.26	11.37	26.63	69.54	-42.91	Peak	
6	12.7170	11.04	11.22	22.26	69.54	-47.28	Peak	

Test Mode: TX Mode\_Battery

Ant 90°

130 dBuV/m

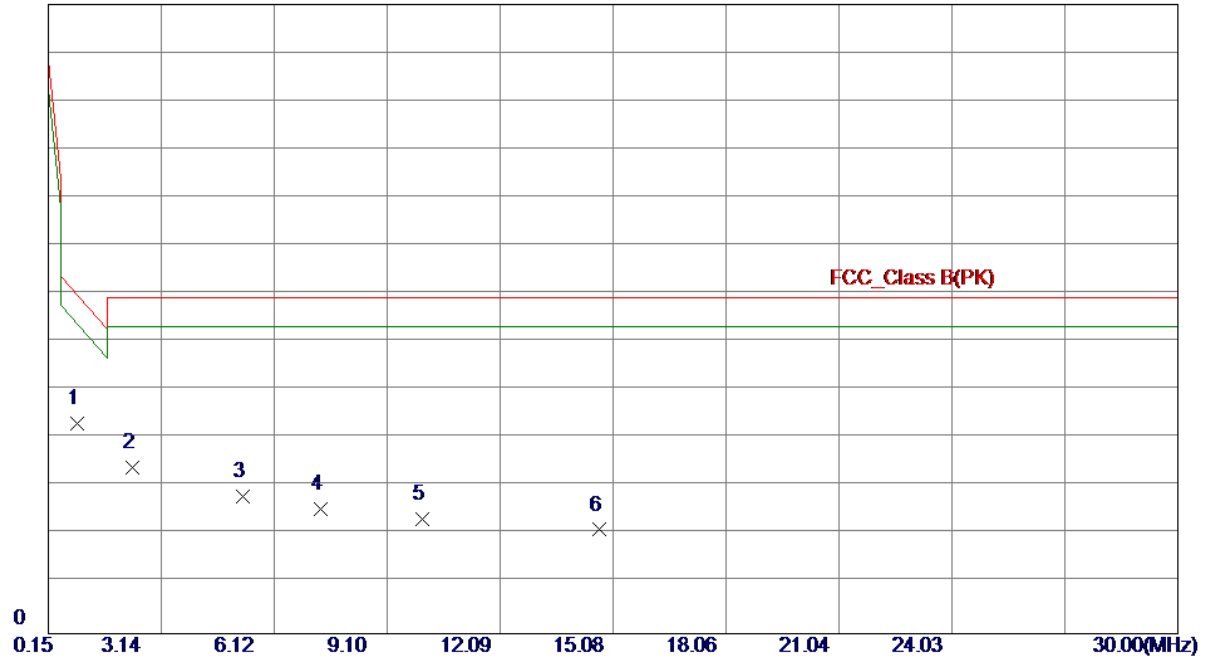


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0488	39.87	13.12	52.99	125.64	-72.65	Peak	

Test Mode: TX Mode\_Battery

Ant 90°

130 dBuV/m

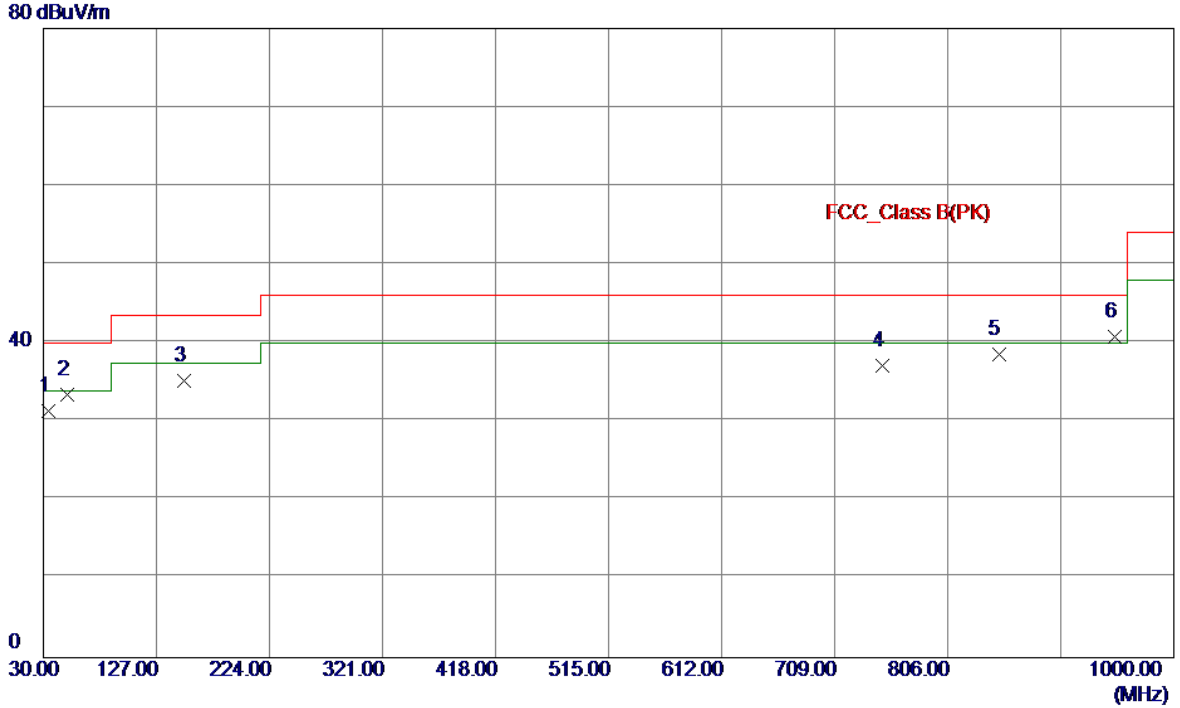


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.9261	31.48	11.97	43.45	69.91	-26.46	Peak	
2	2.3887	22.98	11.38	34.36	69.54	-35.18	Peak	
3	5.2842	16.97	11.39	28.36	69.54	-41.18	Peak	
4	7.3437	14.47	11.35	25.82	69.54	-43.72	Peak	
5	10.0304	12.42	11.30	23.72	69.54	-45.82	Peak	
6	14.7164	10.29	11.16	21.45	69.54	-48.09	Peak	

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

Test Mode: TX 2480MHz \_CH39\_1Mbps\_Adapter

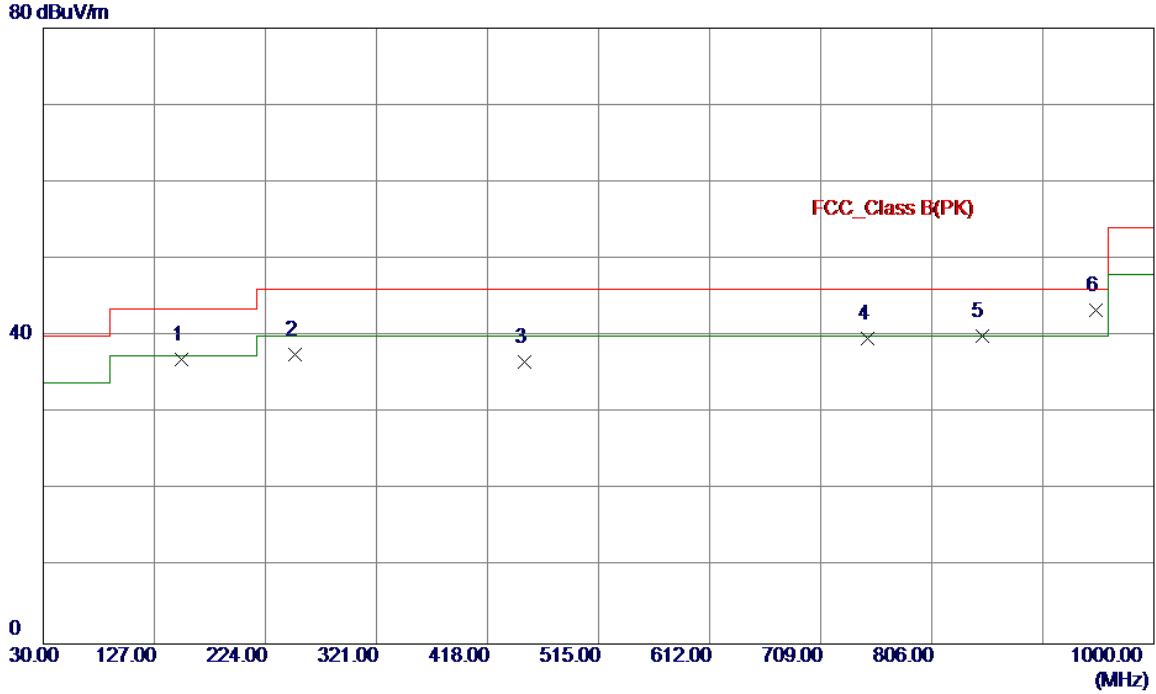
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	33.8800	40.50	-9.08	31.42	40.00	-8.58	Peak	
2	50.3700	41.90	-8.42	33.48	40.00	-6.52	Peak	
3	150.2800	44.12	-8.95	35.17	43.50	-8.33	Peak	
4	749.7400	35.26	1.88	37.14	46.00	-8.86	Peak	
5	849.6500	35.44	3.12	38.56	46.00	-7.44	Peak	
6 *	949.5600	35.84	4.98	40.82	46.00	-5.18	Peak	

Test Mode: TX 2480MHz \_CH39\_1Mbps\_Adapter

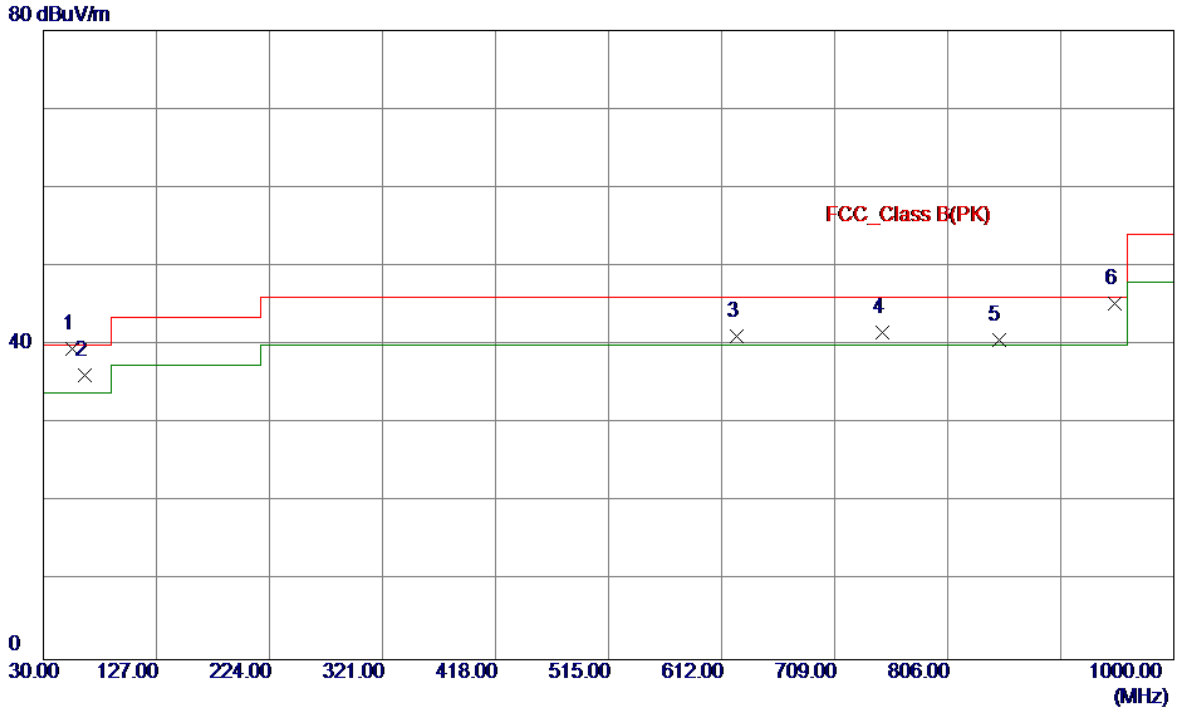
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	150.2800	45.92	-8.95	36.97	43.50	-6.53	Peak	
2	250.1900	47.05	-9.47	37.58	46.00	-8.42	Peak	
3	450.0100	40.56	-3.86	36.70	46.00	-9.30	Peak	
4	749.7400	37.78	1.88	39.66	46.00	-6.34	Peak	
5	849.6500	36.90	3.12	40.02	46.00	-5.98	Peak	
6 *	949.5600	38.33	4.98	43.31	46.00	-2.69	Peak	

Test Mode: TX 2480MHz\_CH39\_1Mbps\_PoE

### Vertical

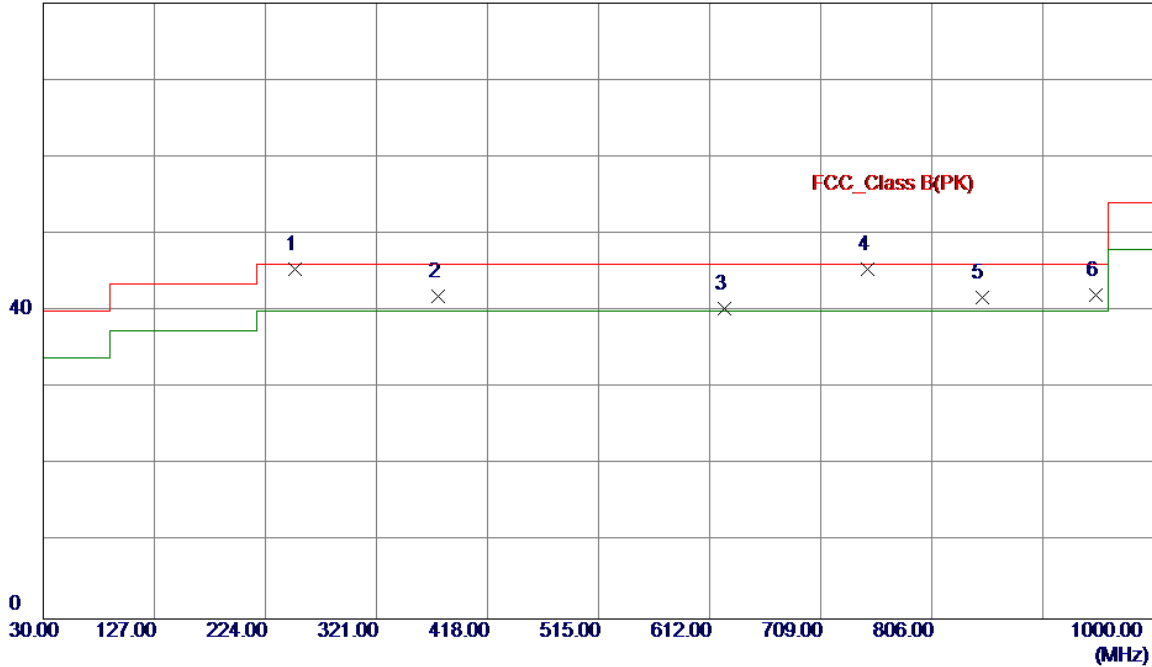


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	55.2200	48.19	-8.72	39.47	40.00	-0.53	QP	
2	65.8900	46.10	-9.98	36.12	40.00	-3.88	Peak	
3	624.6100	41.61	-0.43	41.18	46.00	-4.82	Peak	
4	749.7400	39.65	1.88	41.53	46.00	-4.47	Peak	
5	849.6500	37.48	3.12	40.60	46.00	-5.40	Peak	
6	949.5600	40.26	4.98	45.24	46.00	-0.76	QP	

Test Mode: TX 2480MHz\_CH39\_1Mbps\_PoE

### Horizontal

80 dBuV/m

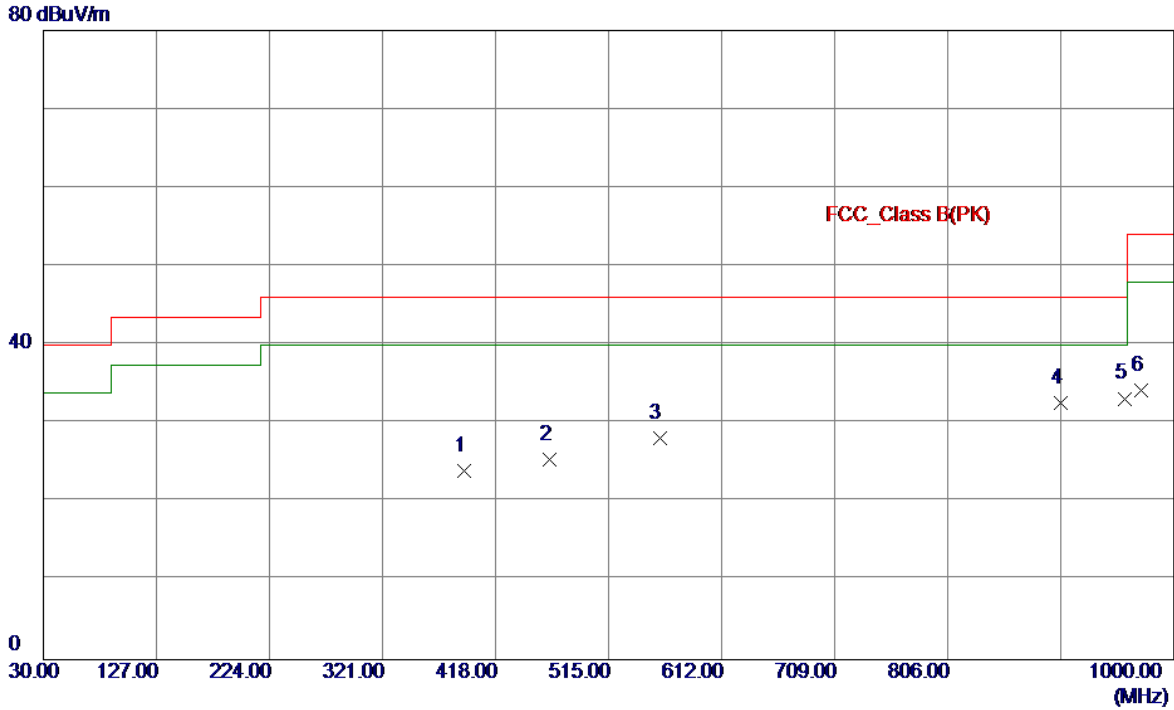


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	250.1900	54.90	-9.47	45.43	46.00	-0.57	QP	
2	375.3200	47.73	-5.78	41.95	46.00	-4.05	Peak	
3	624.6100	40.72	-0.43	40.29	46.00	-5.71	Peak	
4	749.7400	43.53	1.88	45.41	46.00	-0.59	QP	
5	849.6500	38.71	3.12	41.83	46.00	-4.17	Peak	
6	949.5600	37.09	4.98	42.07	46.00	-3.93	Peak	



Test Mode: TX 2480MHz\_CH39\_1Mbps\_Battery

### Vertical

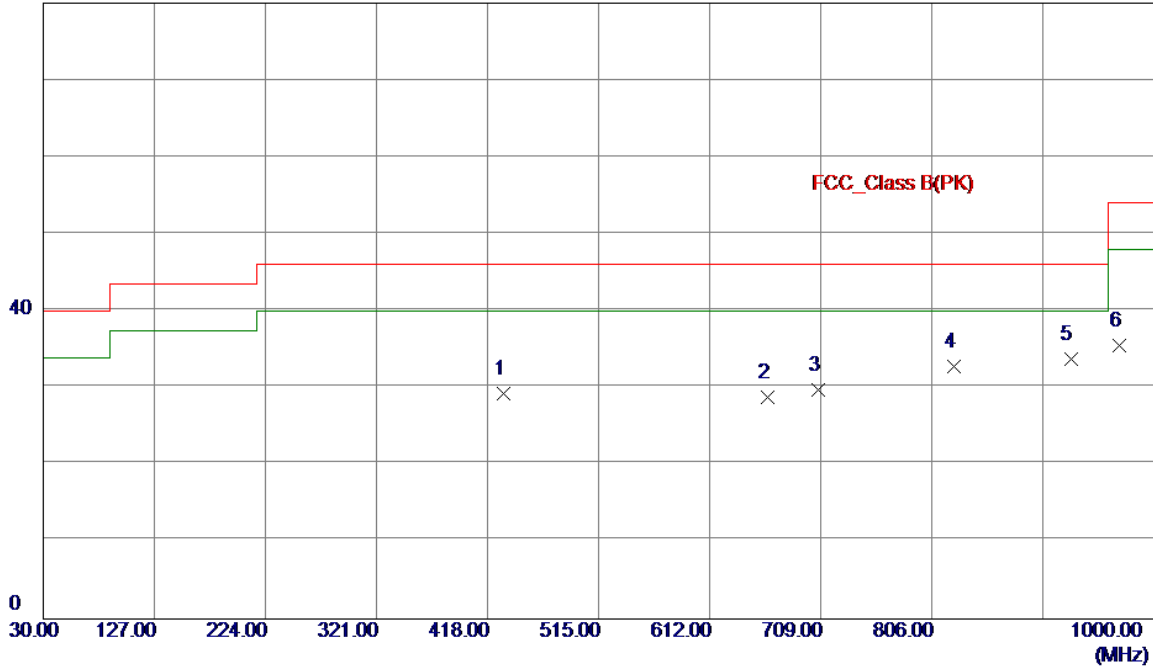


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	390.8400	29.39	-5.44	23.95	46.00	-22.05	Peak	
2	464.5600	29.07	-3.62	25.45	46.00	-20.55	Peak	
3	558.6500	29.88	-1.70	28.18	46.00	-17.82	Peak	
4	903.0000	28.48	4.17	32.65	46.00	-13.35	Peak	
5 *	958.2900	28.10	5.10	33.20	46.00	-12.80	Peak	
6	971.8700	28.93	5.28	34.21	54.00	-19.79	Peak	

Test Mode: TX 2480MHz\_CH39\_1Mbps\_Battery

### Horizontal

80 dBuV/m



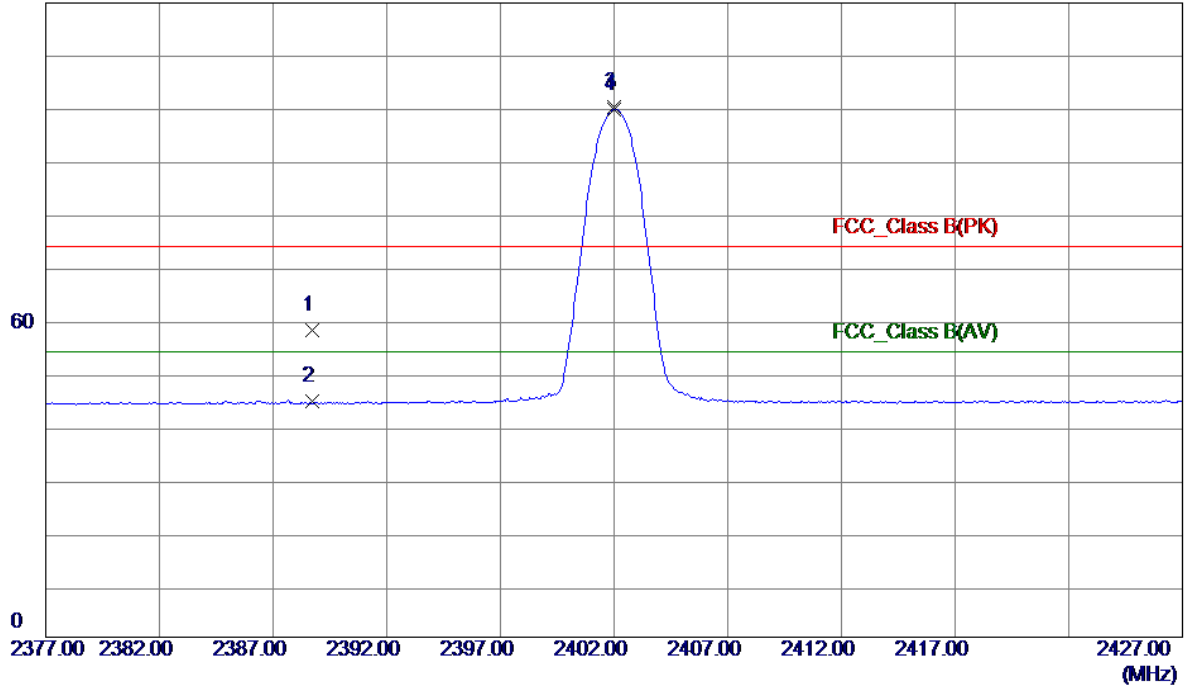
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	431.5800	33.63	-4.37	29.26	46.00	-16.74	Peak	
2	662.4400	28.81	0.04	28.85	46.00	-17.15	Peak	
3	707.0600	28.76	1.01	29.77	46.00	-16.23	Peak	
4	825.4000	30.01	2.78	32.79	46.00	-13.21	Peak	
5 *	927.2500	29.13	4.59	33.72	46.00	-12.28	Peak	
6	969.9300	30.27	5.26	35.53	54.00	-18.47	Peak	

# ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode : TX 2402MHz \_CH00\_1Mbps

Vertical

120 dBuV/m

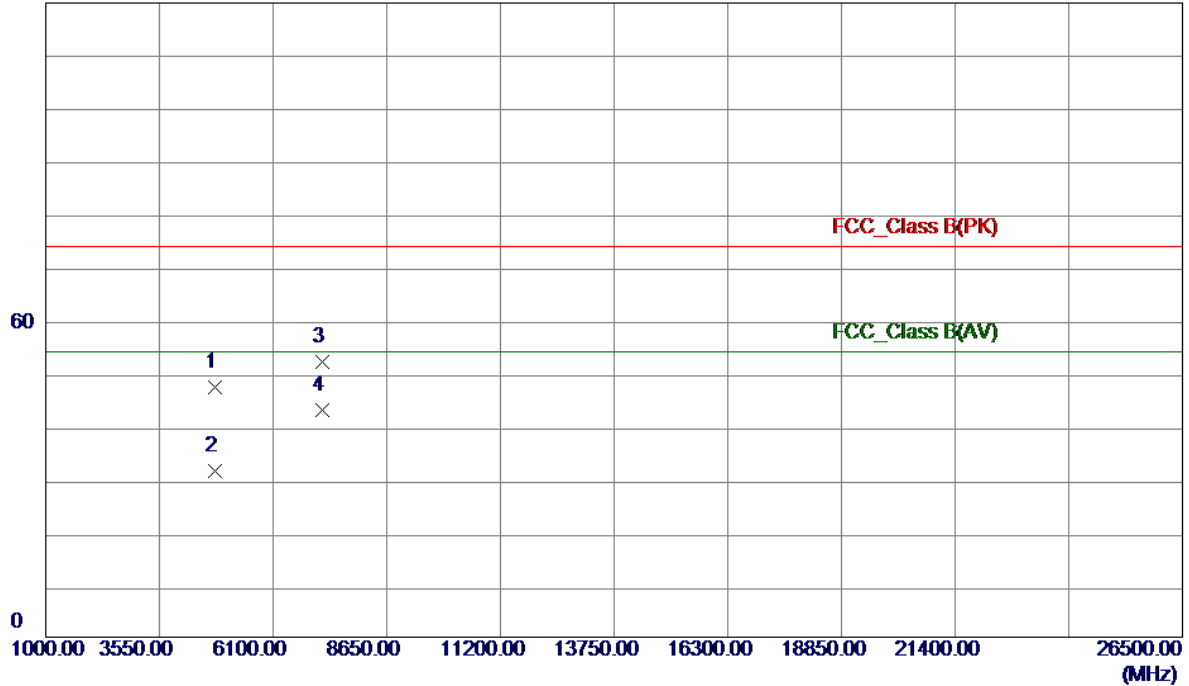


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.7260	27.01	30.96	57.97	74.00	-16.03	Peak	
2	2388.7260	13.71	30.96	44.67	54.00	-9.33	AVG	
3	2402.0000	69.23	31.01	100.24	74.00	26.24	Peak	No Limit
4 *	2402.0000	68.85	31.01	99.86	54.00	45.86	AVG	No Limit

Test Mode : TX 2402MHz \_CH00\_1Mbps

Vertical

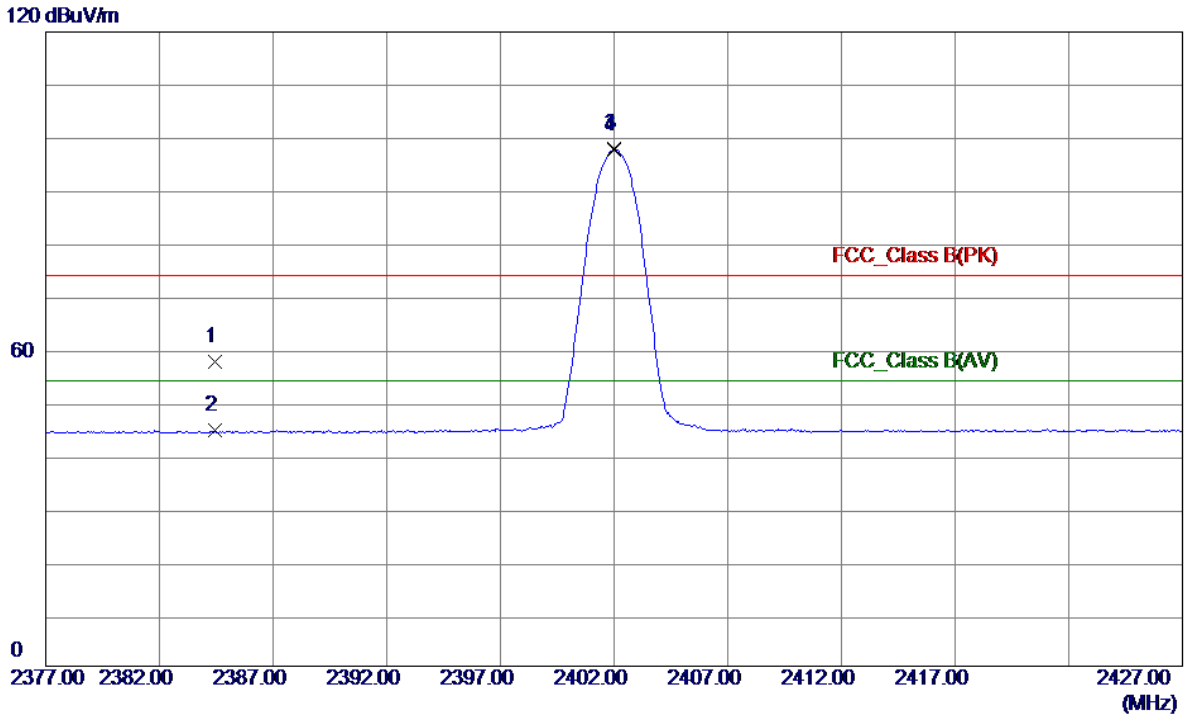
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4804.0000	58.82	-11.50	47.32	74.00	-26.68	Peak	
2	4804.0000	42.83	-11.50	31.33	54.00	-22.67	AVG	
3	7206.0000	57.61	-5.47	52.14	74.00	-21.86	Peak	
4 *	7206.0000	48.50	-5.47	43.03	54.00	-10.97	AVG	

Test Mode : TX 2402MHz \_CH00\_1Mbps

Horizontal

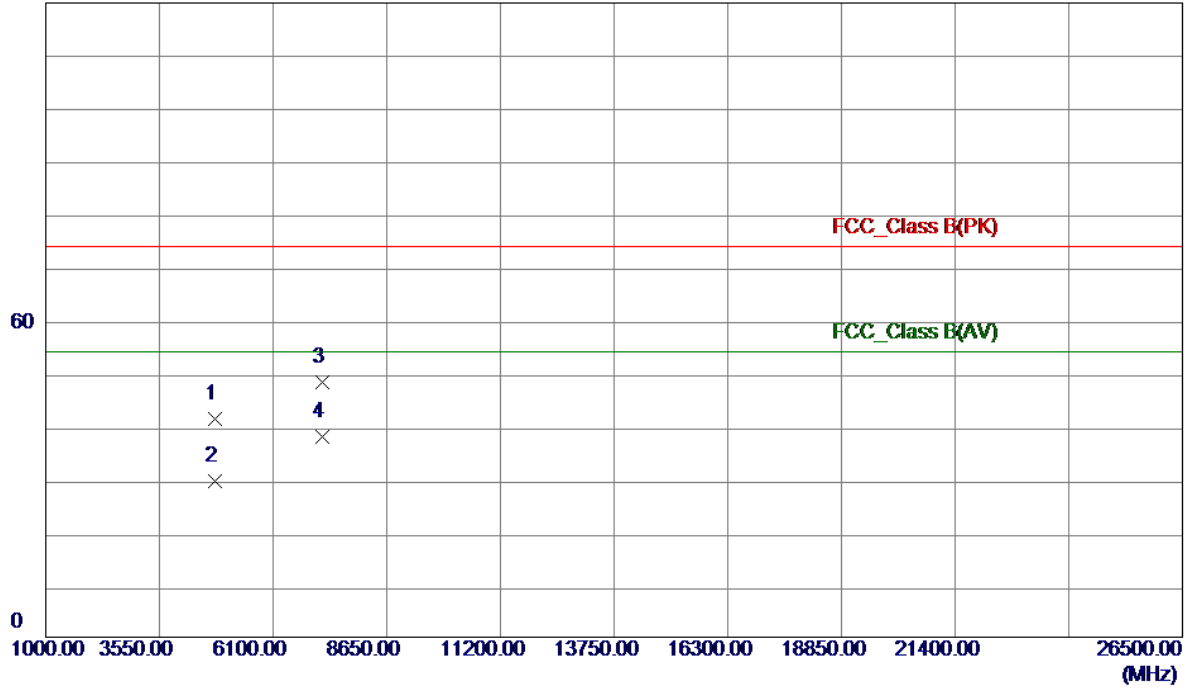


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2384.4230	26.74	30.94	57.68	74.00	-16.32	Peak	
2	2384.4230	13.71	30.94	44.65	54.00	-9.35	AVG	
3	2402.0000	67.00	31.01	98.01	74.00	24.01	Peak	No Limit
4 *	2402.0000	66.64	31.01	97.65	54.00	43.65	AVG	No Limit

Test Mode : TX 2402MHz \_CH00\_1Mbps

Horizontal

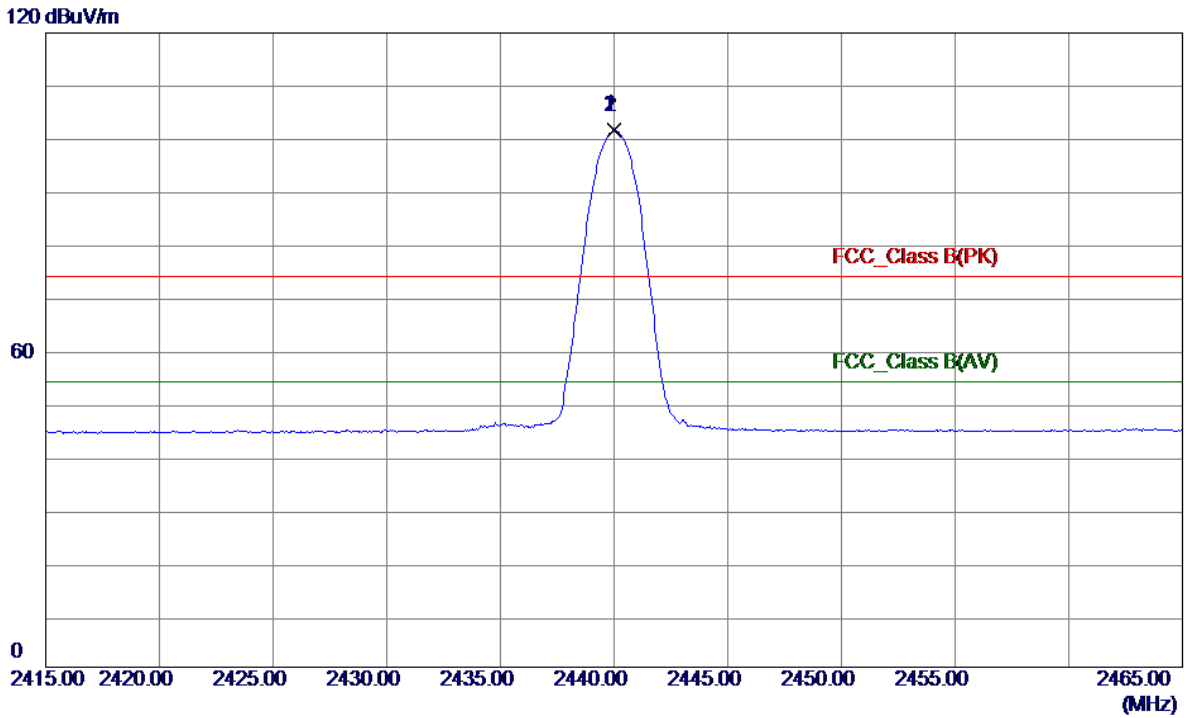
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4804.0000	52.77	-11.50	41.27	74.00	-32.73	Peak	
2	4804.0000	41.06	-11.50	29.56	54.00	-24.44	AVG	
3	7206.0000	53.72	-5.47	48.25	74.00	-25.75	Peak	
4 *	7206.0000	43.30	-5.47	37.83	54.00	-16.17	AVG	

Test Mode : TX 2440MHz \_CH19\_ 1Mbps

Vertical



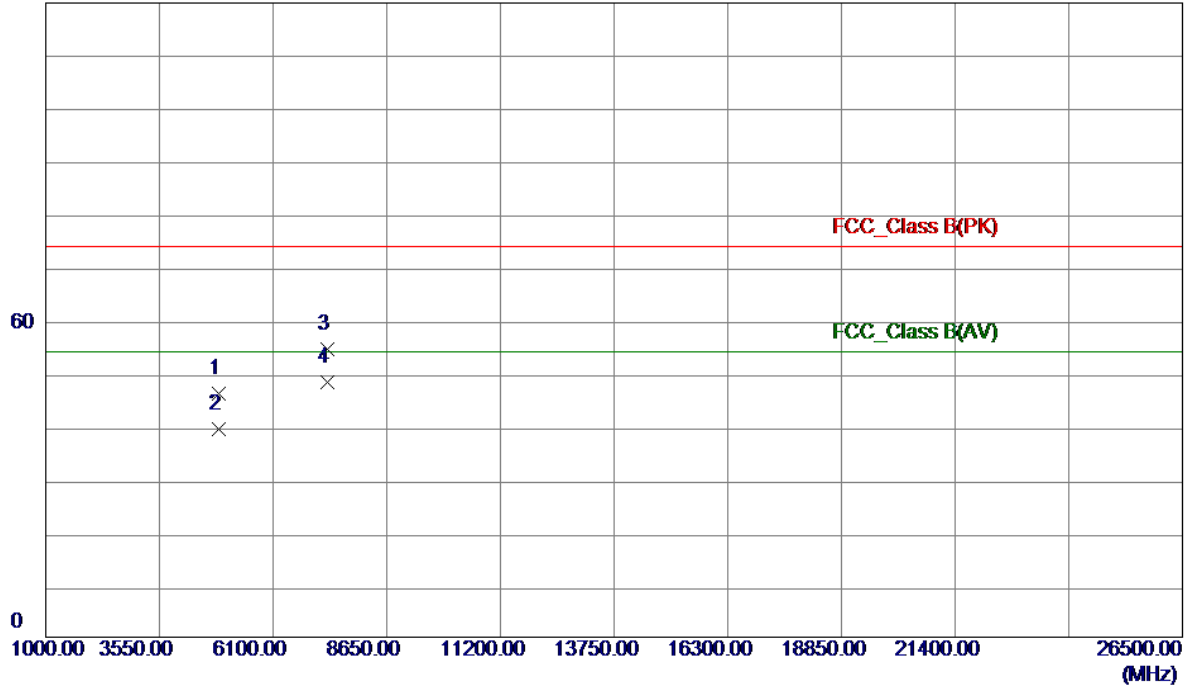
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2440.0000	70.64	31.15	101.79	74.00	27.79	Peak	No Limit
2 *	2440.0000	70.30	31.15	101.45	54.00	47.45	AVG	No Limit



Test Mode : TX 2440MHz \_CH19\_1Mbps

Vertical

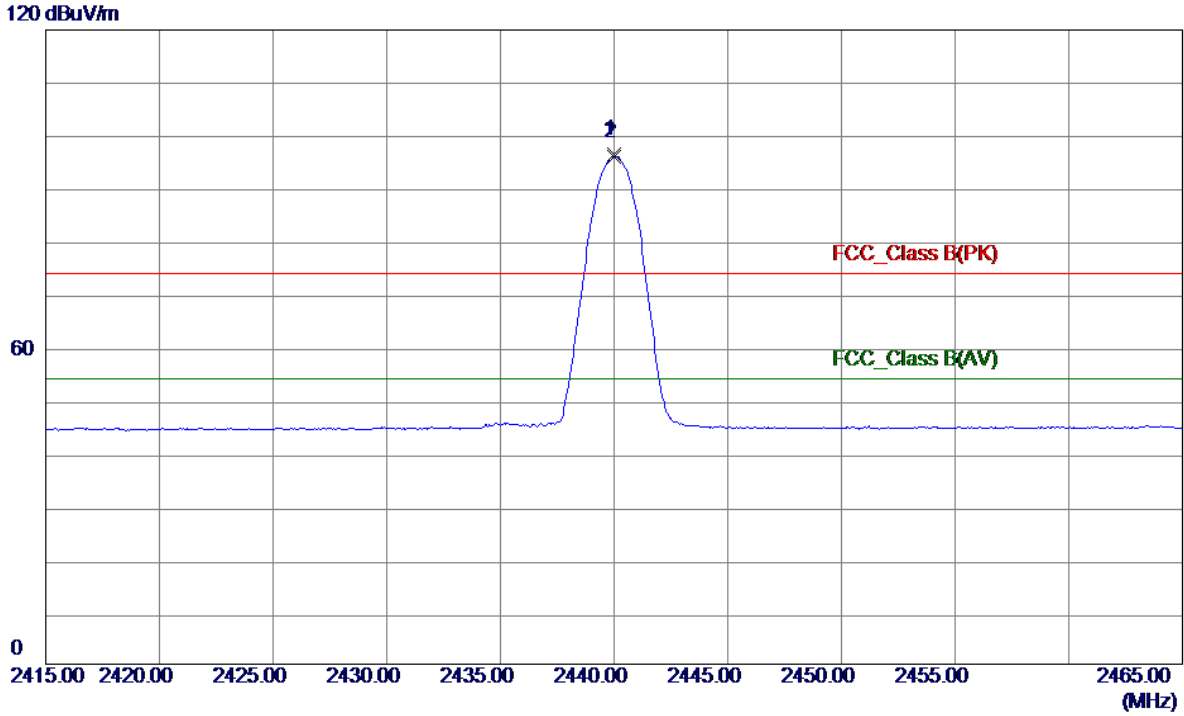
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4880.0000	57.36	-11.38	45.98	74.00	-28.02	Peak	
2	4880.0000	50.78	-11.38	39.40	54.00	-14.60	AVG	
3	7320.0000	59.44	-5.04	54.40	74.00	-19.60	Peak	
4 *	7320.0000	53.26	-5.04	48.22	54.00	-5.78	AVG	

Test Mode : TX 2440MHz \_CH19\_1Mbps

Horizontal

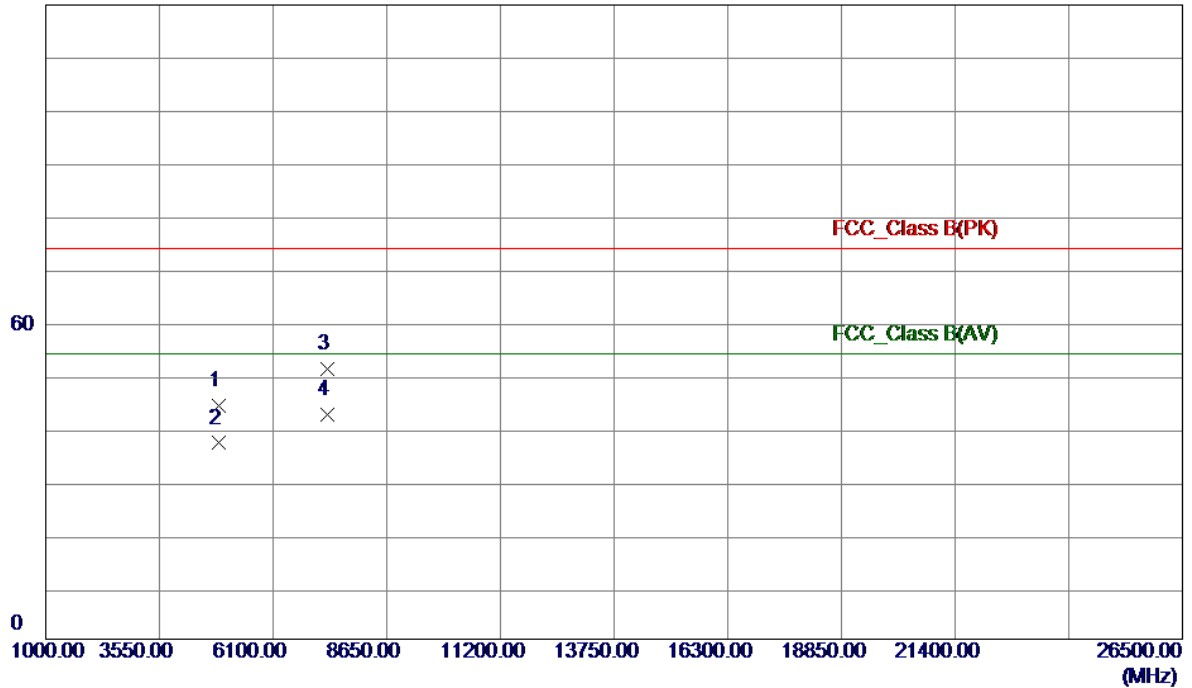


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2440.0000	65.33	31.15	96.48	74.00	22.48	Peak	No Limit
2 *	2440.0000	64.96	31.15	96.11	54.00	42.11	AVG	No Limit

Test Mode : TX 2440MHz \_CH19\_1Mbps

Horizontal

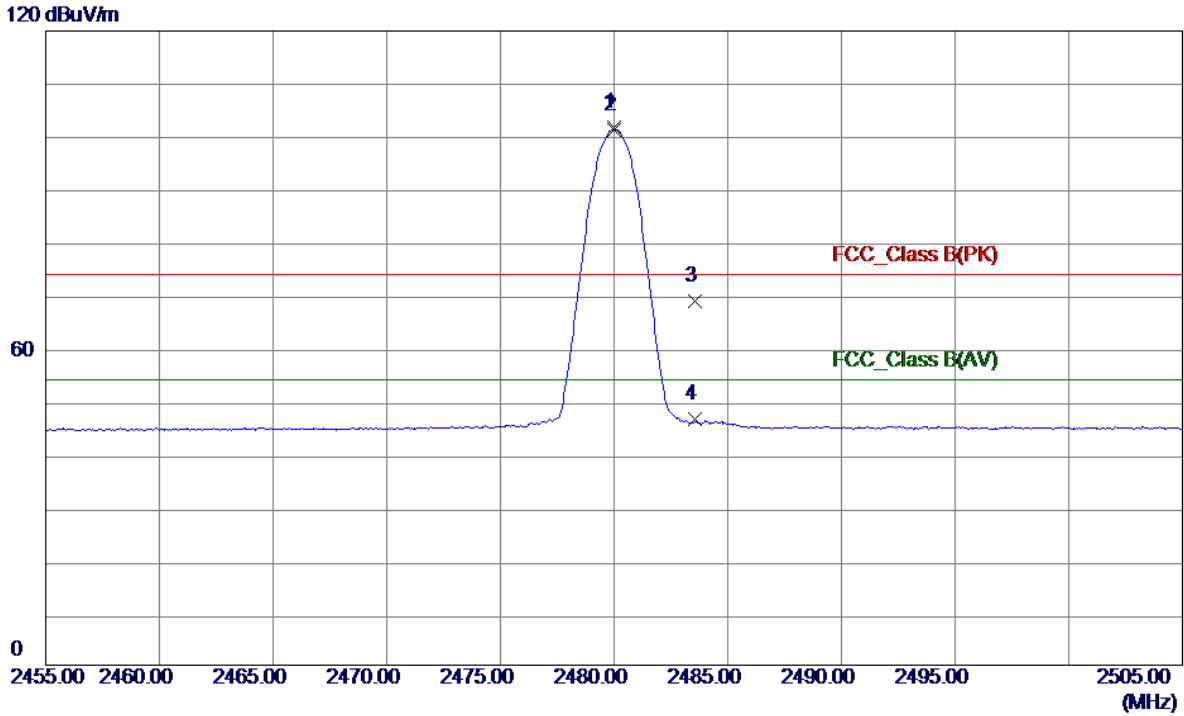
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4880.0000	55.47	-11.38	44.09	74.00	-29.91	Peak	
2	4880.0000	48.46	-11.38	37.08	54.00	-16.92	AVG	
3	7320.0000	56.14	-5.04	51.10	74.00	-22.90	Peak	
4 *	7320.0000	47.41	-5.04	42.37	54.00	-11.63	AVG	

Test Mode : TX 2480MHz \_CH39\_1Mbps

Vertical

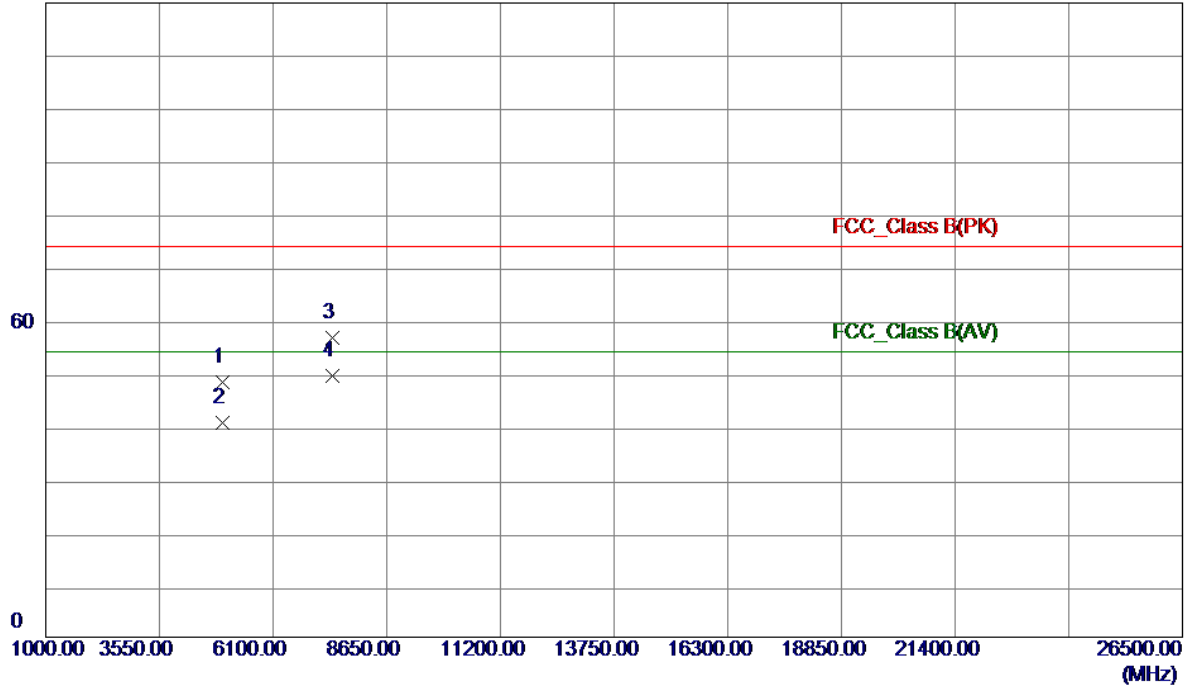


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0000	70.42	31.30	101.72	74.00	27.72	Peak	No Limit
2 *	2480.0000	70.08	31.30	101.38	54.00	47.38	AVG	No Limit
3	2483.5330	37.48	31.31	68.79	74.00	-5.21	Peak	
4	2483.5330	15.25	31.31	46.56	54.00	-7.44	AVG	

Test Mode : TX 2480MHz \_CH39\_1Mbps

Vertical

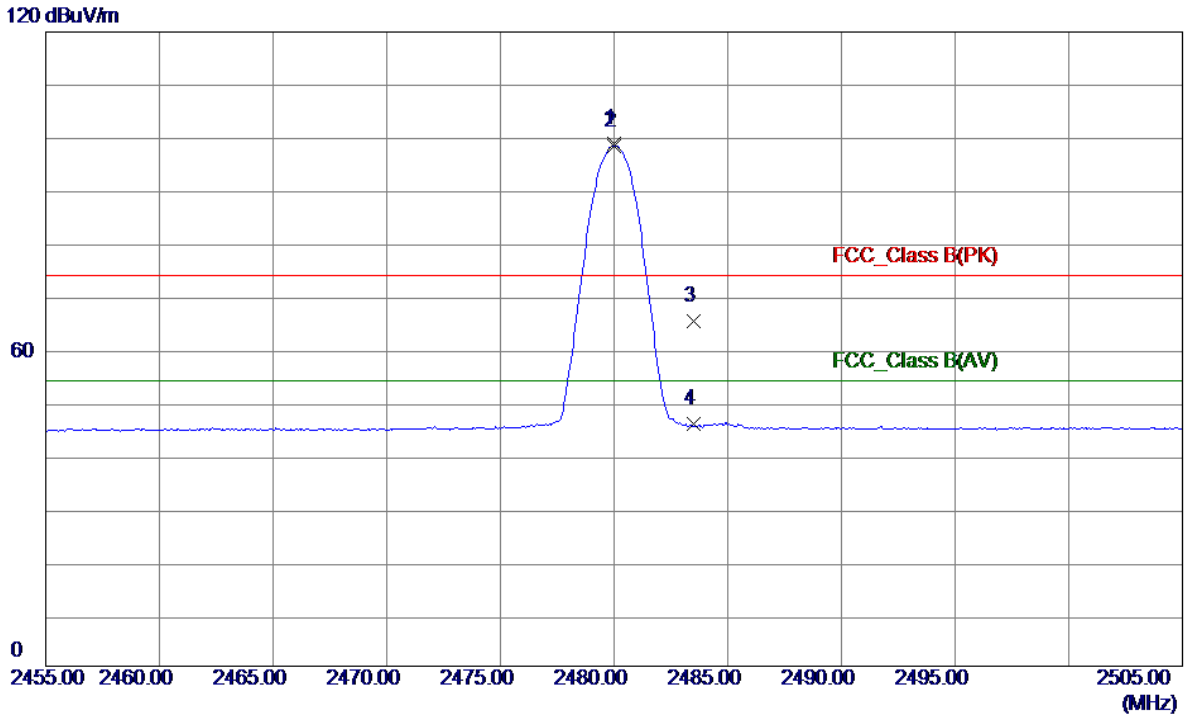
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4960.0000	59.52	-11.26	48.26	74.00	-25.74	Peak	
2	4960.0000	51.85	-11.26	40.59	54.00	-13.41	AVG	
3	7440.0000	61.23	-4.59	56.64	74.00	-17.36	Peak	
4 *	7440.0000	54.07	-4.59	49.48	54.00	-4.52	AVG	

Test Mode : TX 2480MHz \_CH39\_1Mbps

Horizontal

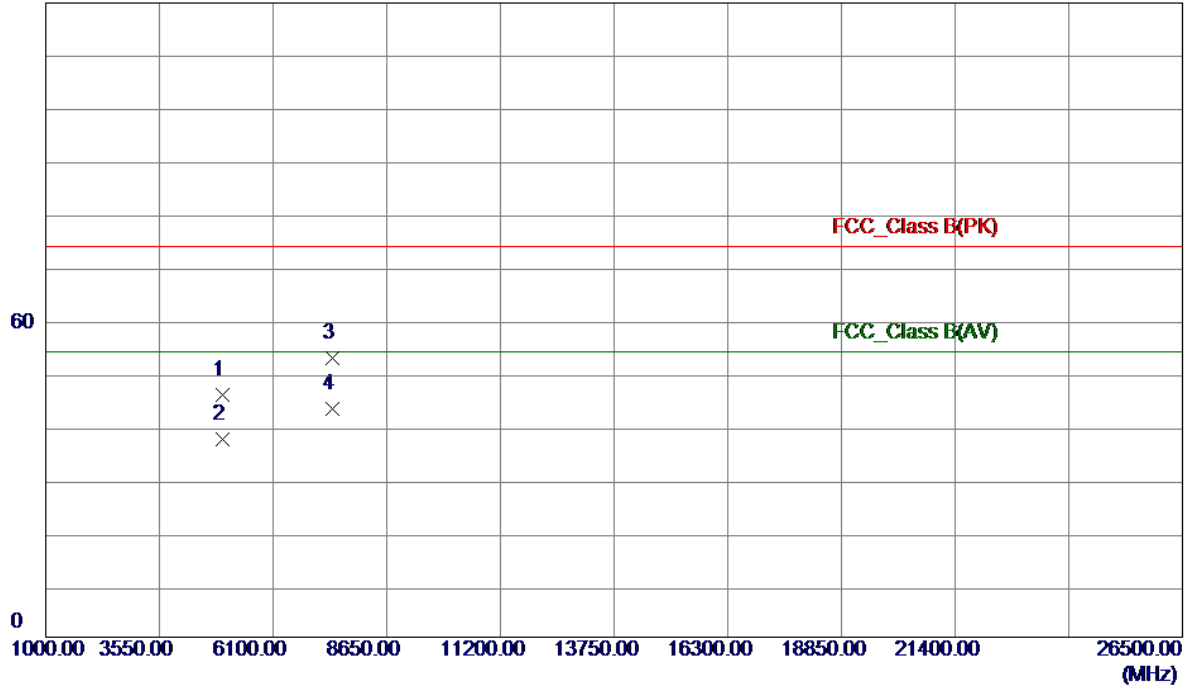


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0000	67.49	31.30	98.79	74.00	24.79	Peak	No Limit
2 *	2480.0000	67.15	31.30	98.45	54.00	44.45	AVG	No Limit
3	2483.5000	34.06	31.31	65.37	74.00	-8.63	Peak	
4	2483.5000	14.51	31.31	45.82	54.00	-8.18	AVG	

Test Mode : TX 2480MHz \_CH39\_1Mbps

Horizontal

120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4960.0000	57.21	-11.26	45.95	74.00	-28.05	Peak	
2	4960.0000	48.77	-11.26	37.51	54.00	-16.49	AVG	
3	7440.0000	57.34	-4.59	52.75	74.00	-21.25	Peak	
4 *	7440.0000	47.80	-4.59	43.21	54.00	-10.79	AVG	

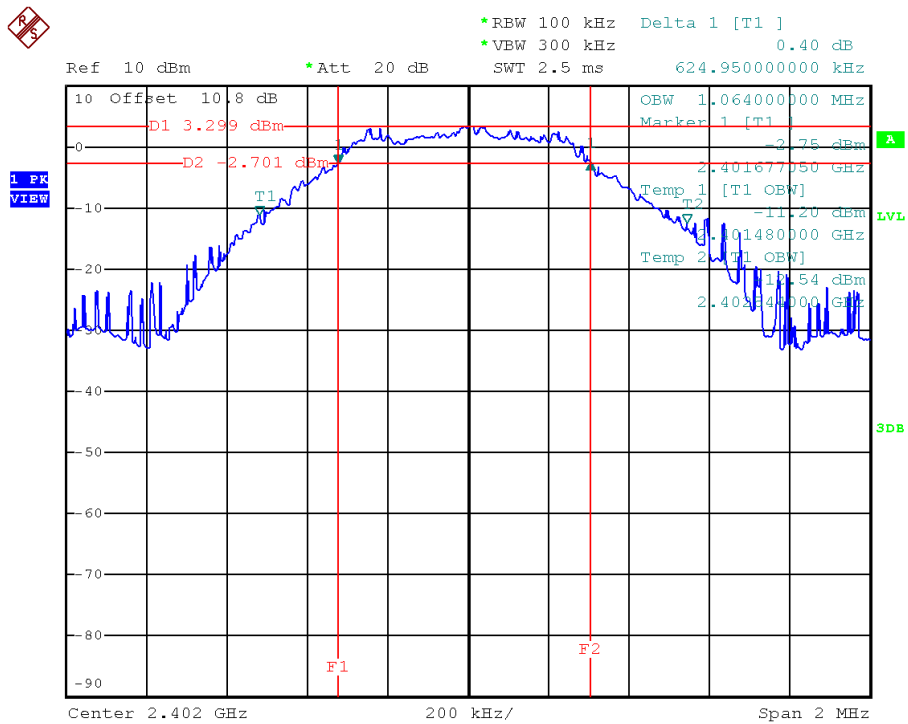
## ATTACHMENT E - BANDWIDTH



Test Mode: TX Mode

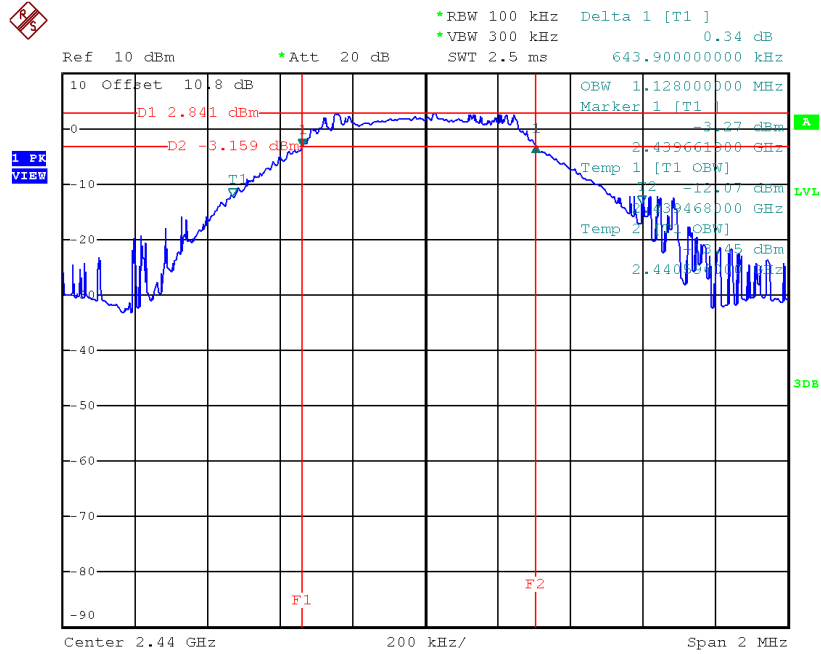
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.625	1.064	500	Pass
2440	0.644	1.128	500	Pass
2480	0.664	1.172	500	Pass

### TX CH00



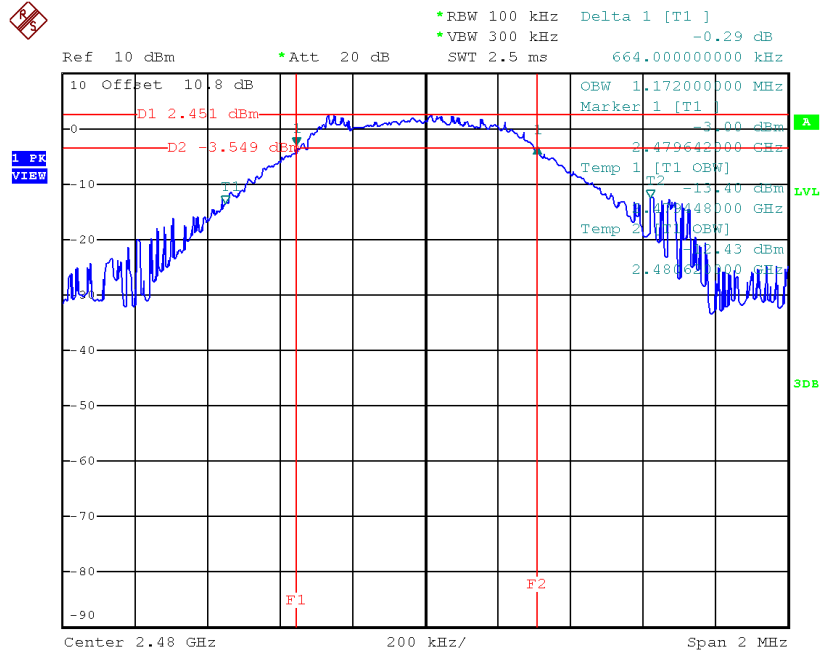
Date: 12.JAN.2017 15:14:39

**TX CH19**



Date: 12.JAN.2017 15:34:25

**TX CH39**



Date: 12.JAN.2017 15:39:52

## ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

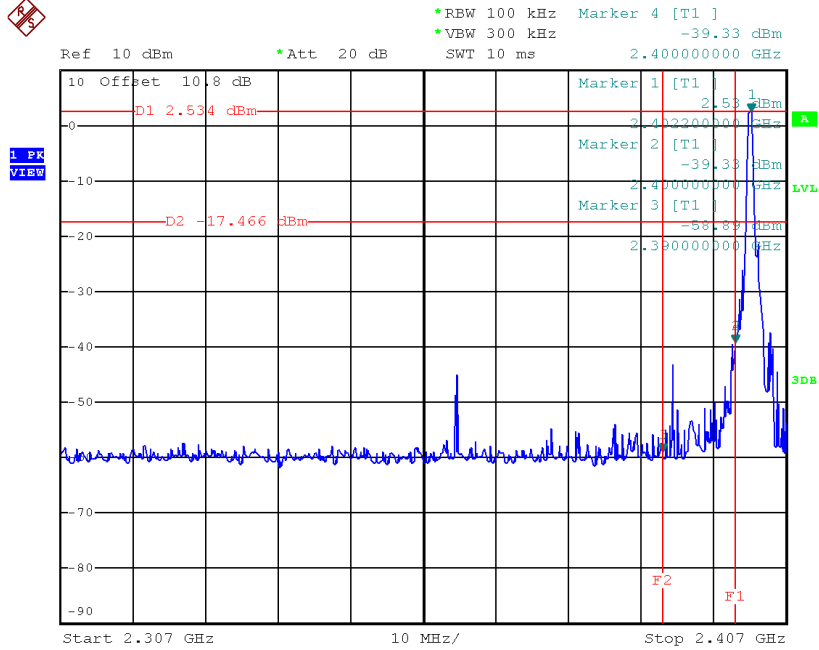
Test Mode : CH00, CH19 , CH39 - 1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	4.29	0.0027	30.00	1.00	Pass
2440	4.14	0.0026	30.00	1.00	Pass
2480	3.58	0.0023	30.00	1.00	Pass

## ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

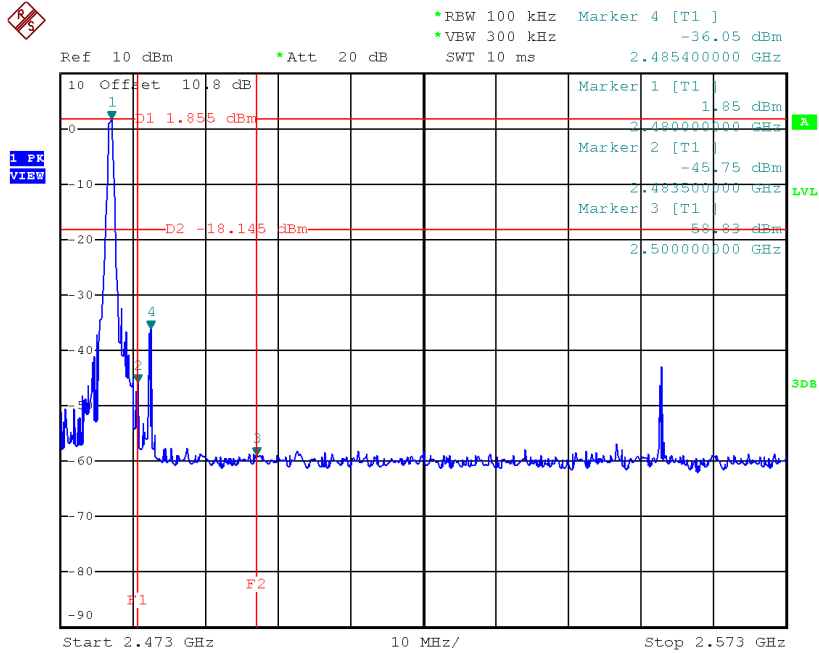
Test Mode : CH00, CH19 , CH39 - 1Mbps

**CH00 (Lower) - 1Mbps**



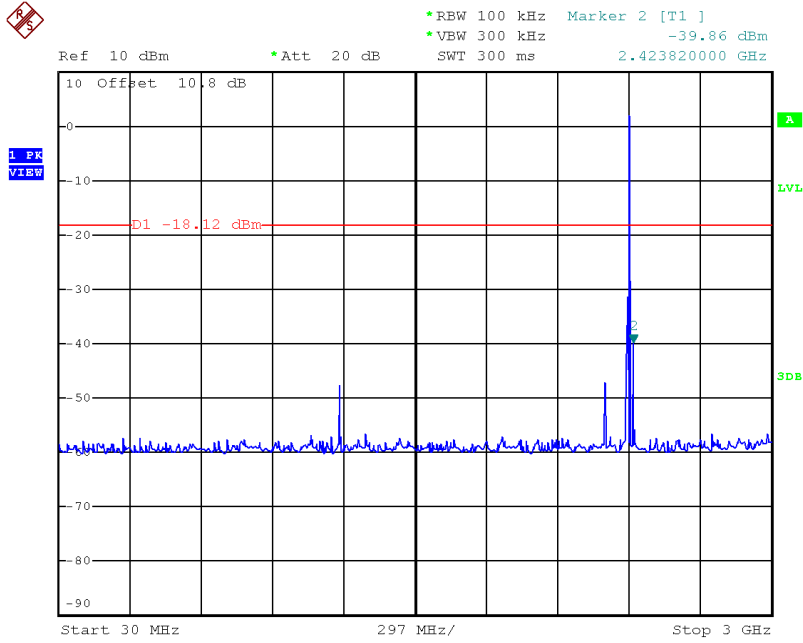
Date: 12.JAN.2017 15:14:47

**CH39 (upper) - 1Mbps**



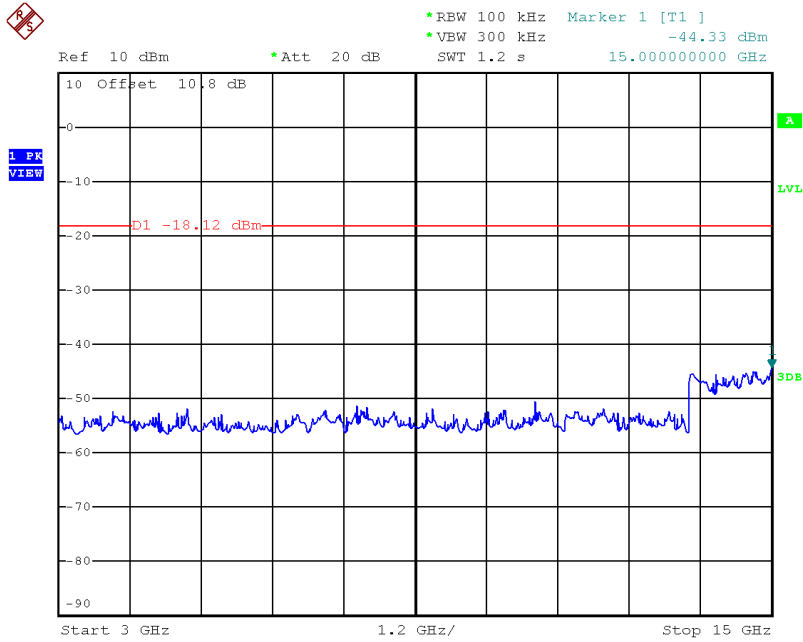
Date: 12.JAN.2017 15:39:59

### CH00 (10 Harmonic of the frequency) 1



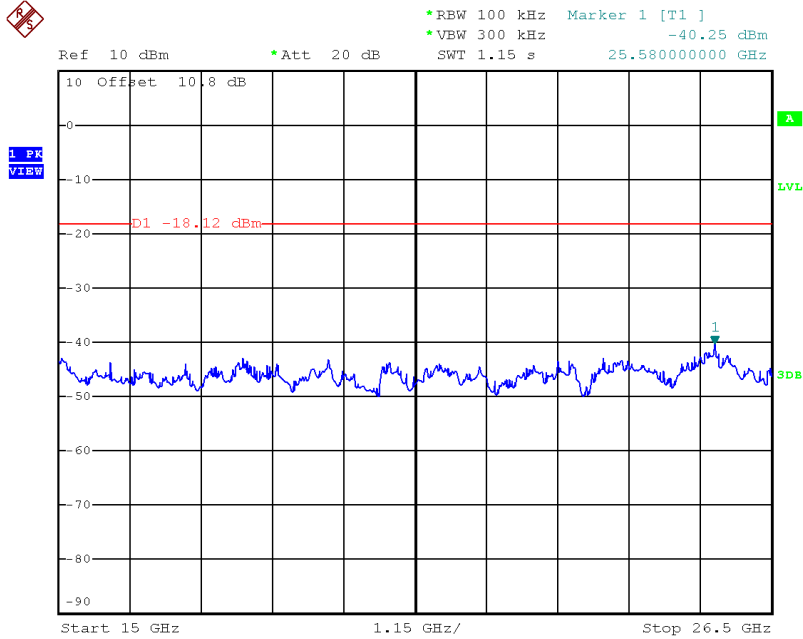
Date: 12.JAN.2017 15:15:00

### CH00 (10 Harmonic of the frequency) 2



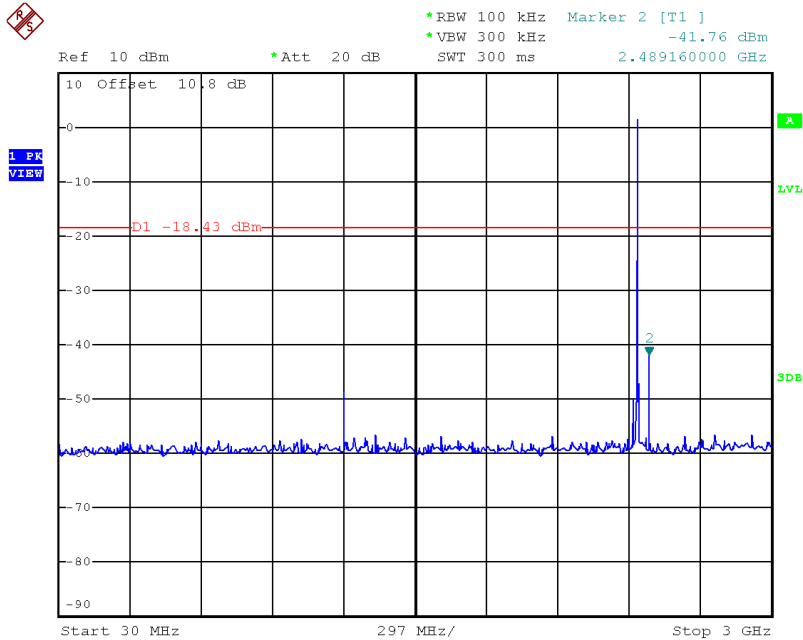
Date: 12.JAN.2017 15:15:07

### CH00 (10 Harmonic of the frequency) 3



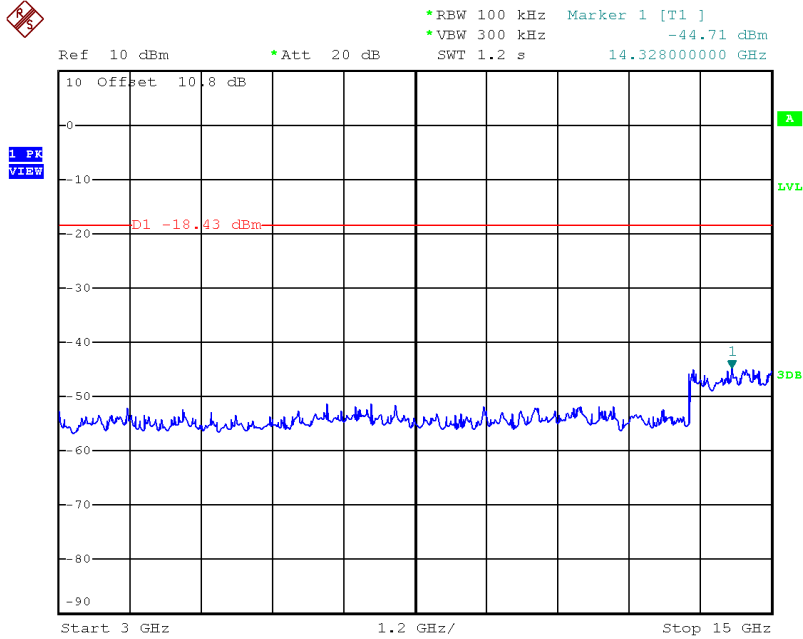
Date: 12.JAN.2017 15:15:14

### CH19 (10 Harmonic of the frequency) 1



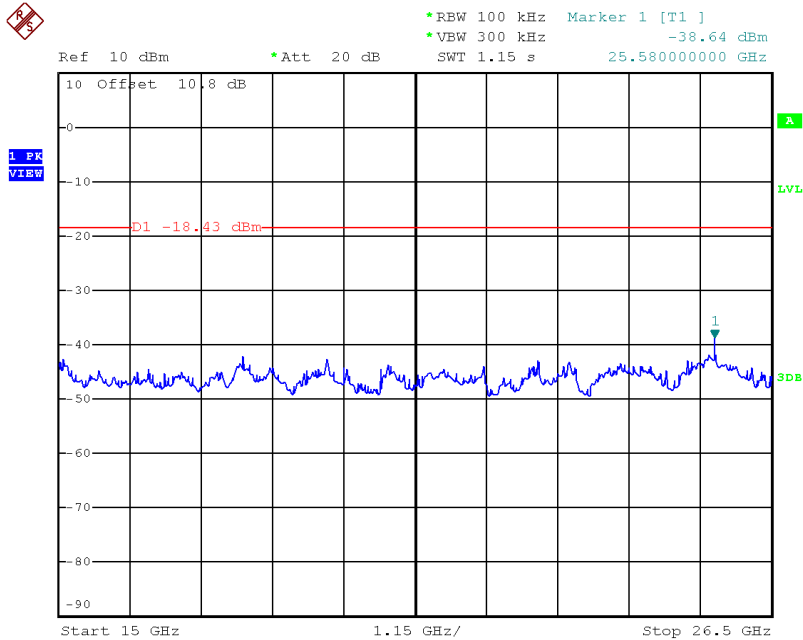
Date: 12.JAN.2017 15:32:58

### CH19 (10 Harmonic of the frequency) 2



Date: 12.JAN.2017 15:33:05

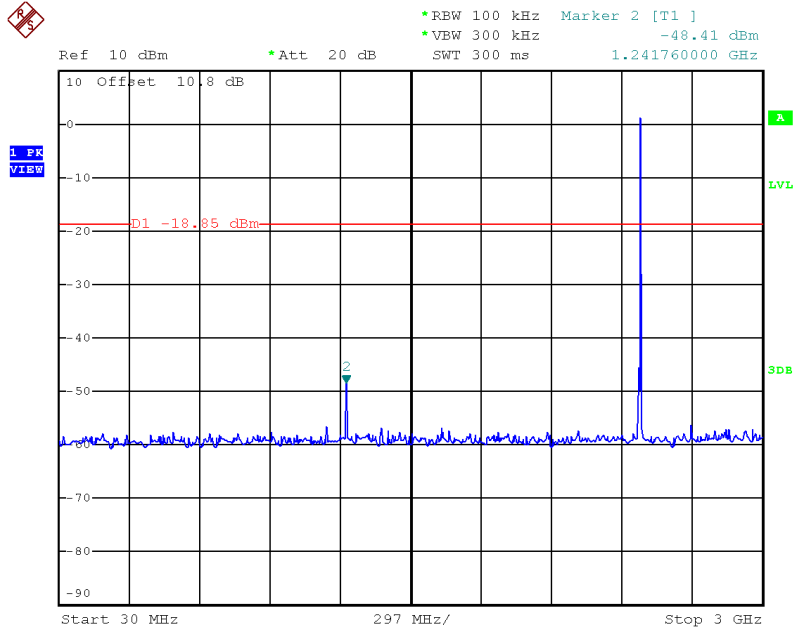
### CH19 (10 Harmonic of the frequency) 3



Date: 12.JAN.2017 15:33:12

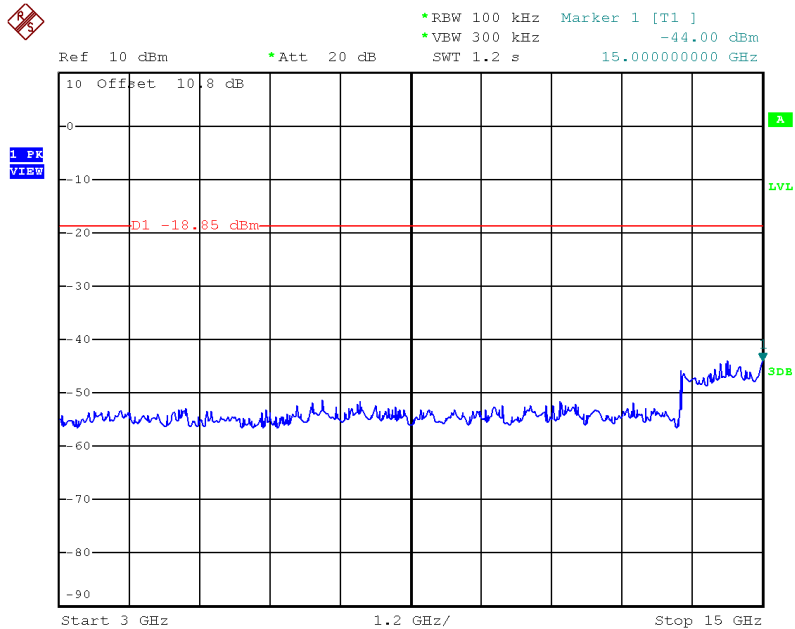


### CH39 (10 Harmonic of the frequency) 1



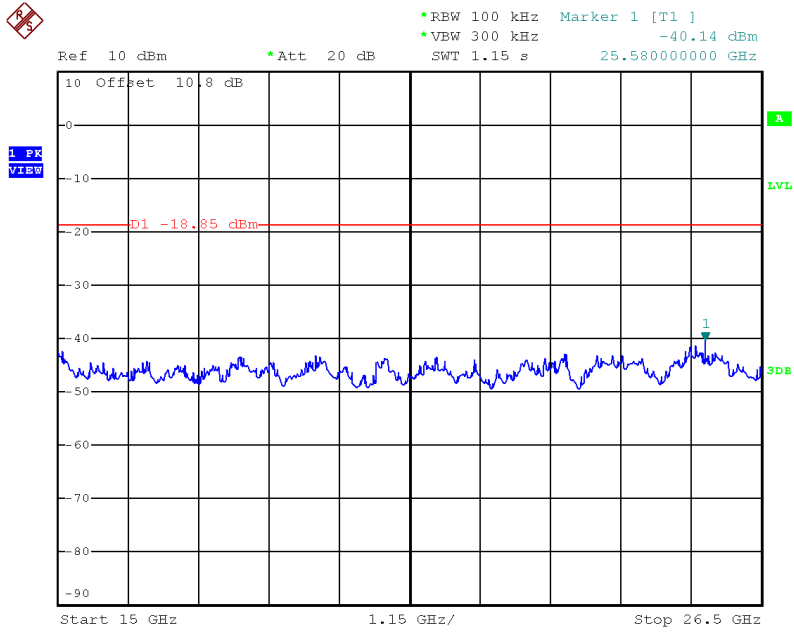
Date: 12.JAN.2017 15:40:12

### CH39 (10 Harmonic of the frequency) 2



Date: 12.JAN.2017 15:40:19

### CH39 (10 Harmonic of the frequency) 3



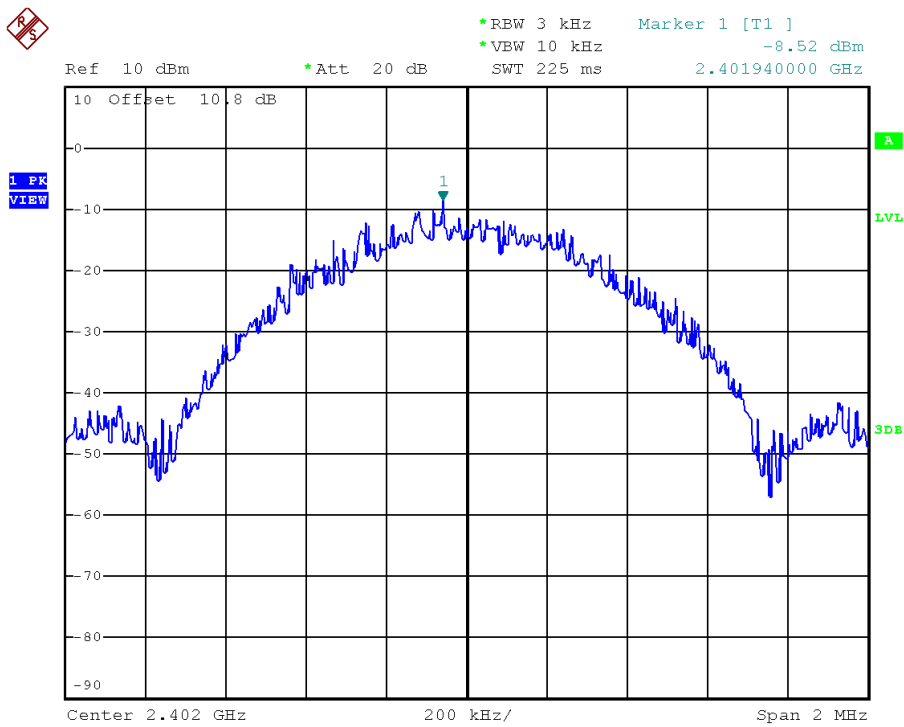
Date: 12.JAN.2017 15:40:26

## ATTACHMENT H - POWER SPECTRAL DENSITY TEST

Test Mode: CH00, CH19 , CH39 - 1Mbps

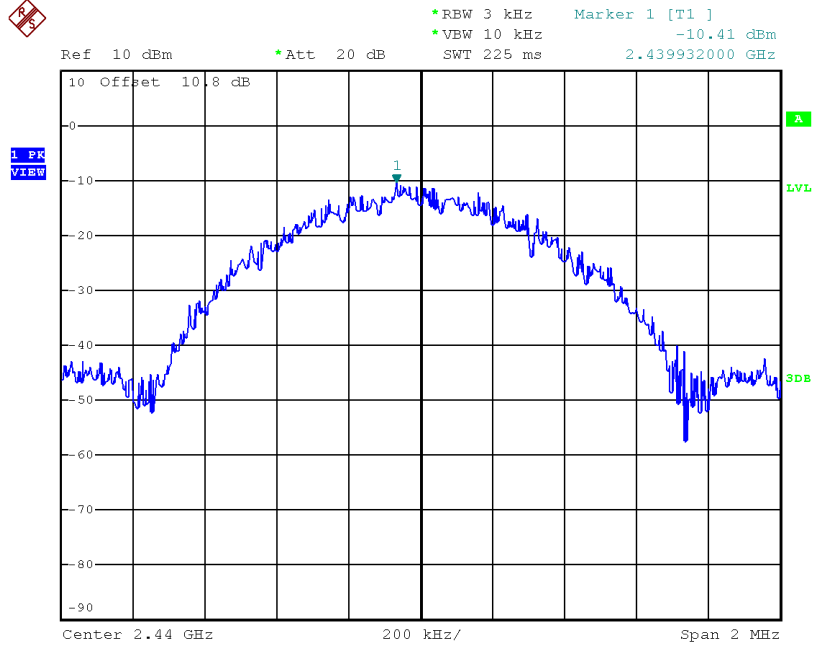
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-8.520	0.141	8.00	Pass
2440	-10.410	0.091	8.00	Pass
2480	-10.660	0.086	8.00	Pass

**TX CH00**



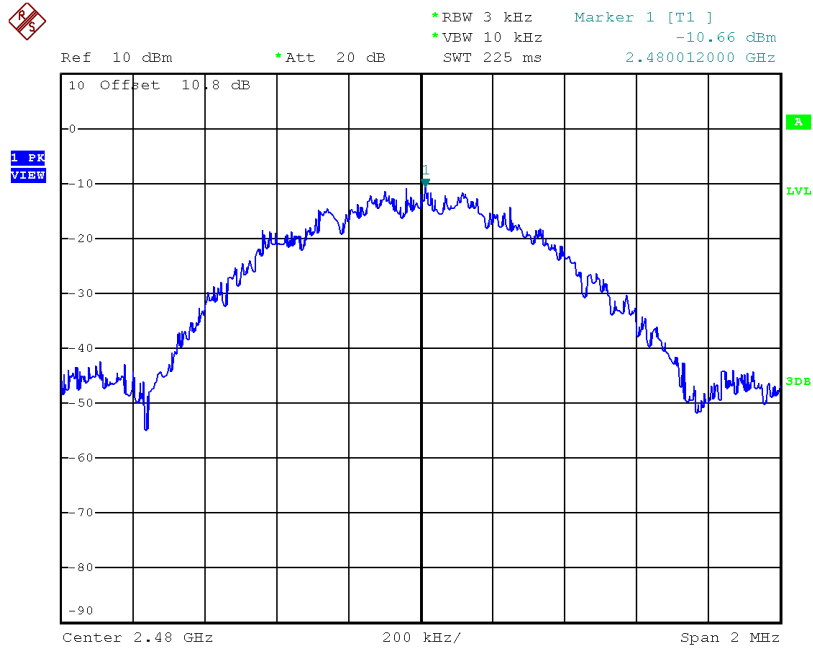
Date: 12.JAN.2017 15:15:19

### TX CH19



Date: 12.JAN.2017 15:33:17

### TX CH39



Date: 12.JAN.2017 15:40:31