

# FCC Radio Test Report

## FCC ID: QISBG2-U03

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

**Project No.** : 1707C204  
**Equipment** : HUAWEI MediaPad T3 7  
**Model Name** : BG2-U03  
**Applicant** : Huawei Technologies Co.,Ltd.  
**Address** : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen China

**Date of Receipt** : Jul. 24, 2017  
**Date of Test** : Jul. 24, 2017 ~ Aug. 09, 2017  
**Issued Date** : Aug. 10, 2017  
**Tested by** : BTL Inc.

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1707C204	Original Issue.	Aug. 10, 2017

## 1. CERTIFICATION

Equipment : HUAWEI MediaPad T3 7  
Brand Name : HUAWEI  
Model Name : BG2-U03  
Applicant : Huawei Technologies Co.,Ltd.  
Manufacturer : Huawei Technologies Co.,Ltd.  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,  
Bantian, Longgang District Shenzhen China  
Date of Test : Jul. 24, 2017 ~ Aug. 09, 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-2-1707C204) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

<b>Applied Standard(s): FCC Part15 (15.247) , Subpart C</b>			
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 is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

## 2.2 MEASUREMENT UNCERTAINTY

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

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

### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

### B. Radiated Measurement:

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



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	HUAWEI MediaPad T3 7	
Brand Name	HUAWEI	
Model Name	BG2-U03	
Model Difference	N/A	
Power Source	#1 DC voltage supplied from AC/DC adapter. #2 Supplied from battery. #3 Supplied from USB port.	
Power Rating	#1 Input: 100-240V~50/60Hz 0.2A Output: 5V --- 1A #2 DC 3.7V #3 EUT I/P: DC 5V	
HW Version	Bg2-3G V1.0	
Product Description	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps)
	Bit Rate of Transmitter	
	Output Power (Max.)	9.2 dBm (1Mbps)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT contains following accessory devices

Item	Mfr/Brand	Model.
Adapter	HUIZHOU BYD ELECTRONIC CO.,LTD	HW-050100U01
	SHENZHEN HUNTKEY ELECTRIC CO.,LTD	
	DONGGUAN PHITEK ELECTRONICS CO.,LTD	
USB Cable	HONGLIN TECHNOLOGY CO.,LTD	130-26654
	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	CUBB01M-HC208-DH
	Luxshare Precision Industry Co., Ltd	L99U2013-CS-H
Battery	Harbin Coslight Power Co., Ltd	HB3G1
	SCUD (FUJIAN) Electronics Co., Ltd	HB3G1
	Sunwoda Electronic Co., LTD	HB4269B6EAW

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	Internal	N/A	0.31

### 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:

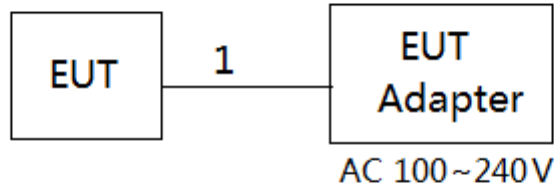
(1) The measurements are performed at the high, middle, low available channels.

### 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	NA		
Frequency (MHz)	2402	2440	2480
BT LE	4	4	4

**3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**



**3.5 DESCRIPTION OF SUPPORT UNITS**

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	USB 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

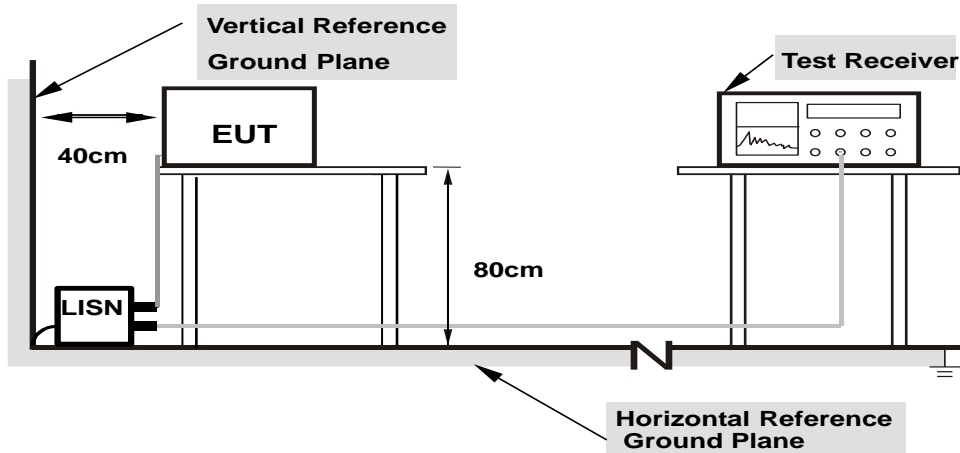
#### 4.1.2 TEST PROCEDURE

- 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 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

#### 4.1.4 TEST SETUP



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

#### 4.1.5 EUT OPERATING CONDITIONS

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

#### 4.1.6 EUT TEST CONDITIONS

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

#### 4.1.7 TEST RESULTS

Please refer to the 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.

## 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)	Band edge at 3m (dB $\mu$ V/m)		Harmonic at 1.5m (dB $\mu$ V/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	80 (Note 5)	60(Note 5)

#### 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

(5)

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left( \frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

$$20 \log d_{\text{limit}}/d_{\text{measure}} = 20 \log 3/1.5 = 6 \text{dB.}$$

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 or 1.5m 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.

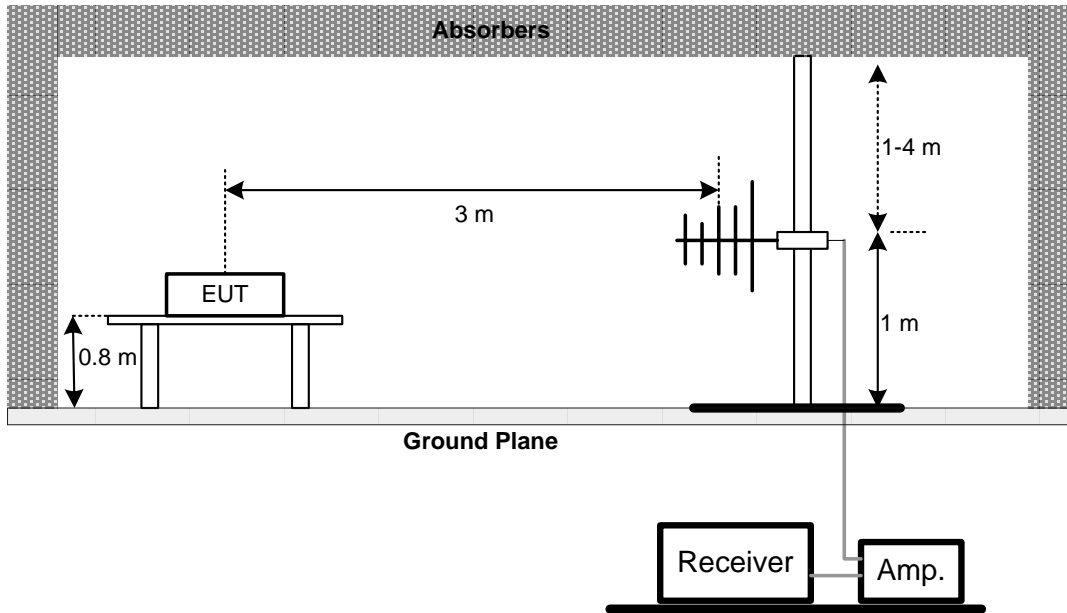
#### 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

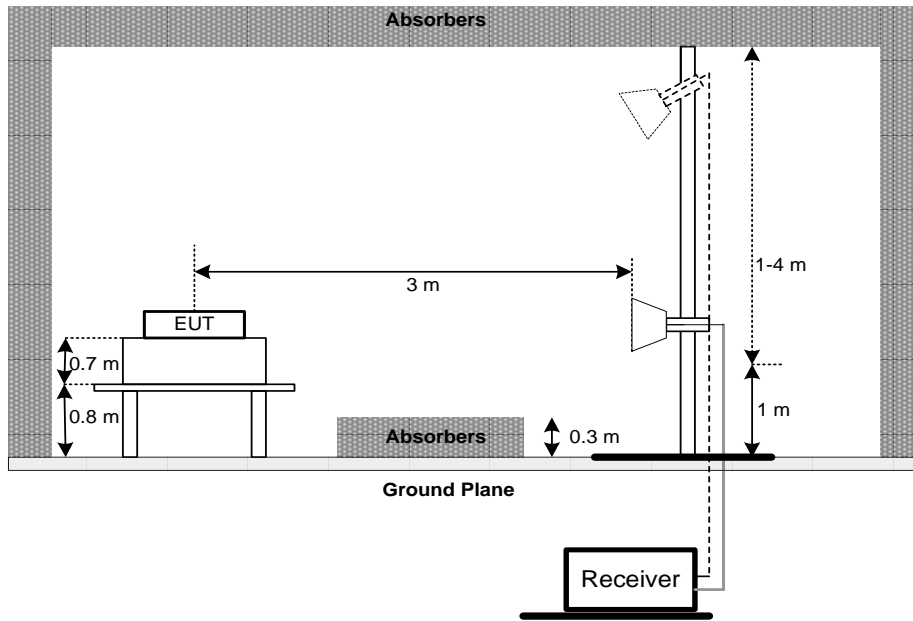


#### 4.2.4 TEST SETUP

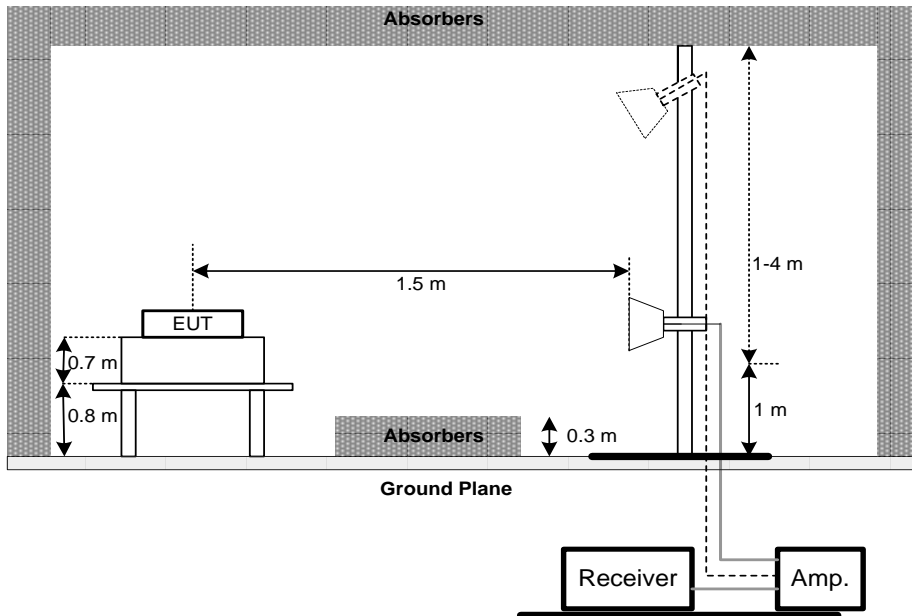
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



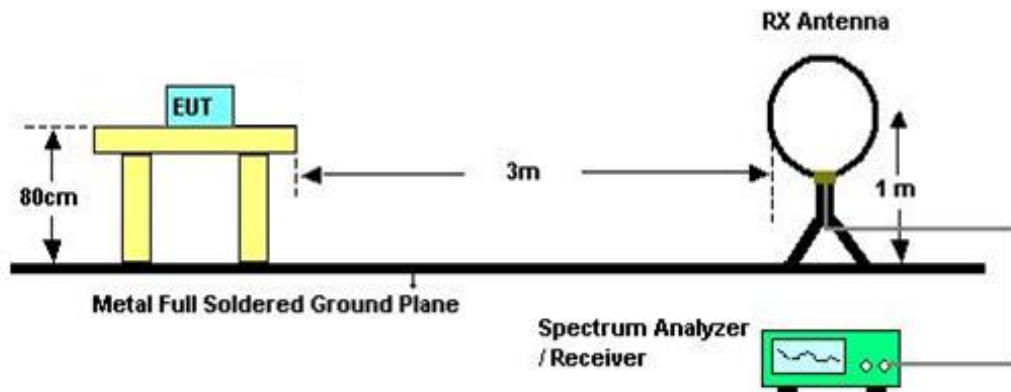
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz  
Band edge



Harmonic



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

#### 4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

#### 4.2.9 TEST 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.

## 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 Appendix 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 Appendix 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

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

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

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

#### 7.1.5 EUT OPERATION CONDITIONS

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

#### 7.1.6 TEST RESULTS

Please refer to the Appendix 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 Appendix H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018
2	LISN	EMCO	3816/2	52765	Mar. 26, 2018
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 26, 2018
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Oct. 20, 2017

Radiated Emission Measurement - Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017
3	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 06, 2017



**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	CT	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

**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**

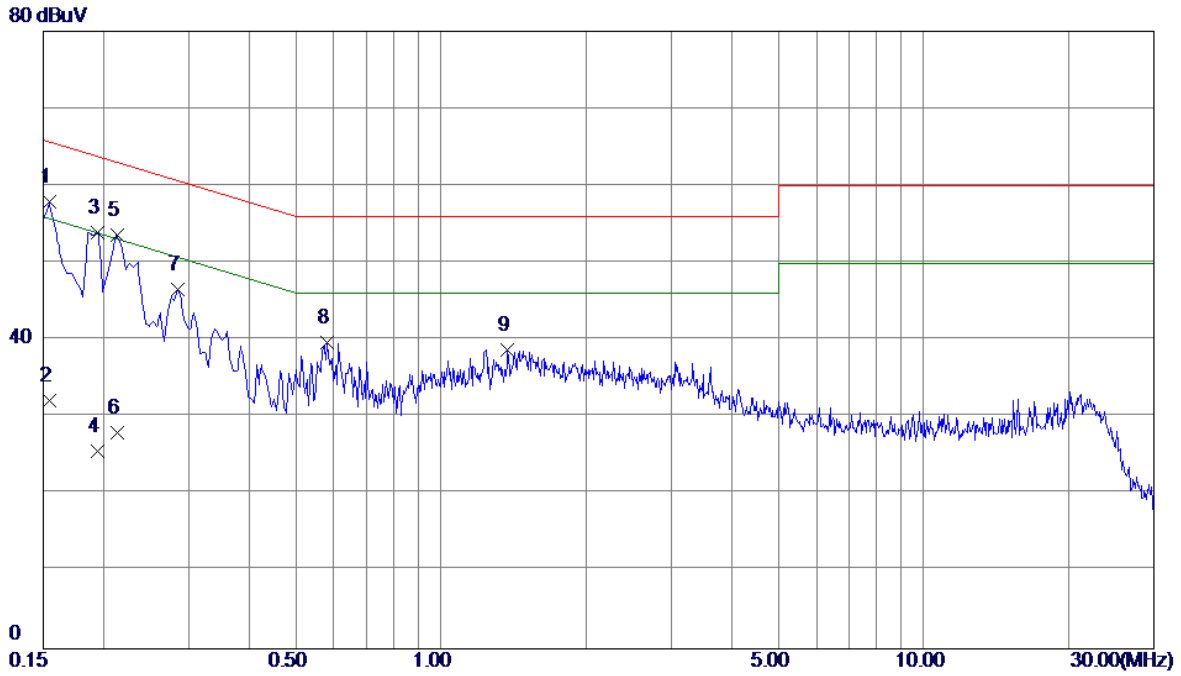
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

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

## APPENDIX A - CONDUCTED EMISSION

Test Mode: TX Mode\_Adapter: HUNTKEY

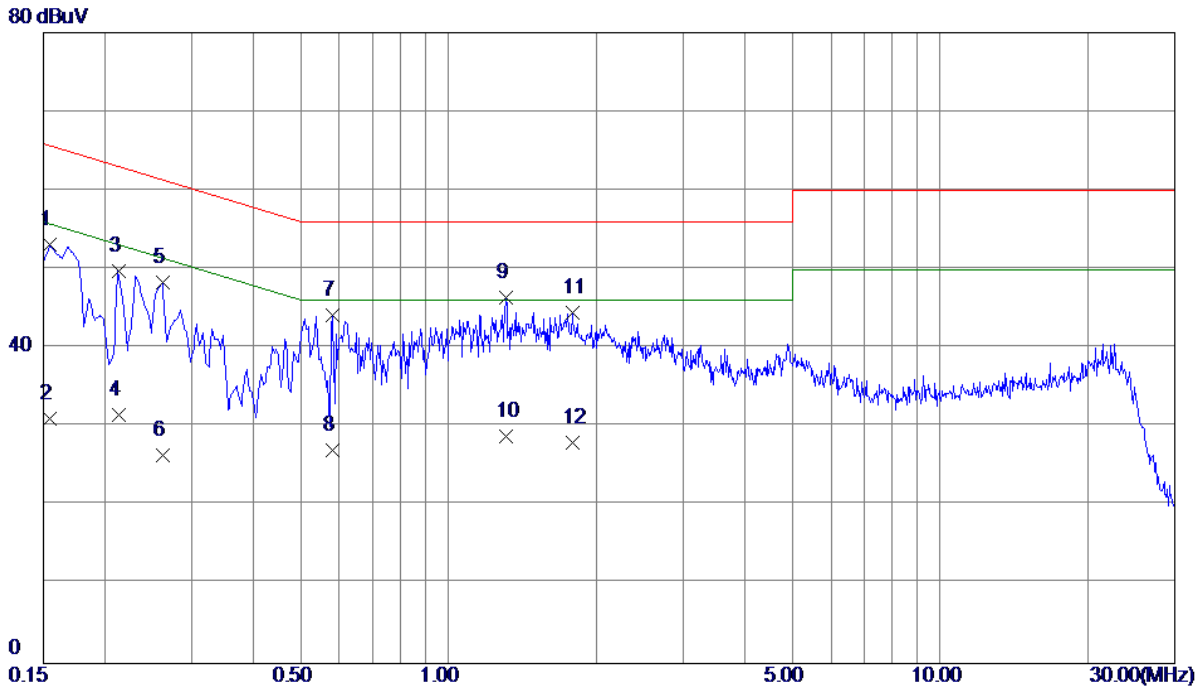
### Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1545	48.11	9.79	57.90	65.75	-7.85	Peak	
2	0.1545	22.40	9.79	32.19	55.75	-23.56	AVG	
3	0.1949	44.15	9.76	53.91	63.83	-9.92	Peak	
4	0.1949	15.90	9.76	25.66	53.83	-28.17	AVG	
5	0.2130	43.85	9.76	53.61	63.09	-9.48	Peak	
6	0.2130	18.20	9.76	27.96	53.09	-25.13	AVG	
7	0.2850	36.87	9.76	46.63	60.67	-14.04	Peak	
8	0.5820	29.95	9.81	39.76	56.00	-16.24	Peak	
9	1.3740	28.77	9.89	38.66	56.00	-17.34	Peak	

Test Mode: TX Mode\_Adapter: HUNTKEY

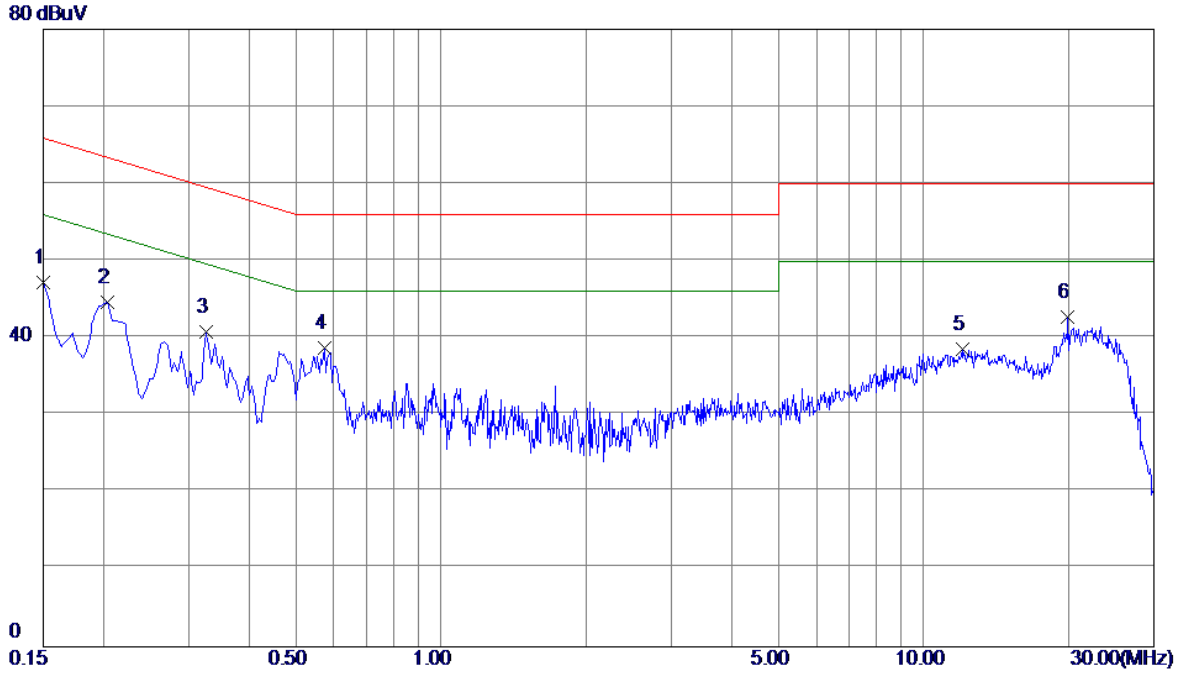
### Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	43.45	9.68	53.13	65.75	-12.62	Peak	
2	0.1545	21.40	9.68	31.08	55.75	-24.67	AVG	
3	0.2130	40.00	9.69	49.69	63.09	-13.40	Peak	
4	0.2130	21.79	9.69	31.48	53.09	-21.61	AVG	
5	0.2625	38.65	9.67	48.32	61.35	-13.03	Peak	
6	0.2625	16.70	9.67	26.37	51.35	-24.98	AVG	
7	0.5820	34.52	9.71	44.23	56.00	-11.77	Peak	
8	0.5820	17.30	9.71	27.01	46.00	-18.99	AVG	
9 *	1.3065	36.70	9.76	46.46	56.00	-9.54	Peak	
10	1.3065	19.10	9.76	28.86	46.00	-17.14	AVG	
11	1.7880	34.63	9.82	44.45	56.00	-11.55	Peak	
12	1.7880	18.21	9.82	28.03	46.00	-17.97	AVG	

Test Mode: TX Mode\_Adapter: BYD

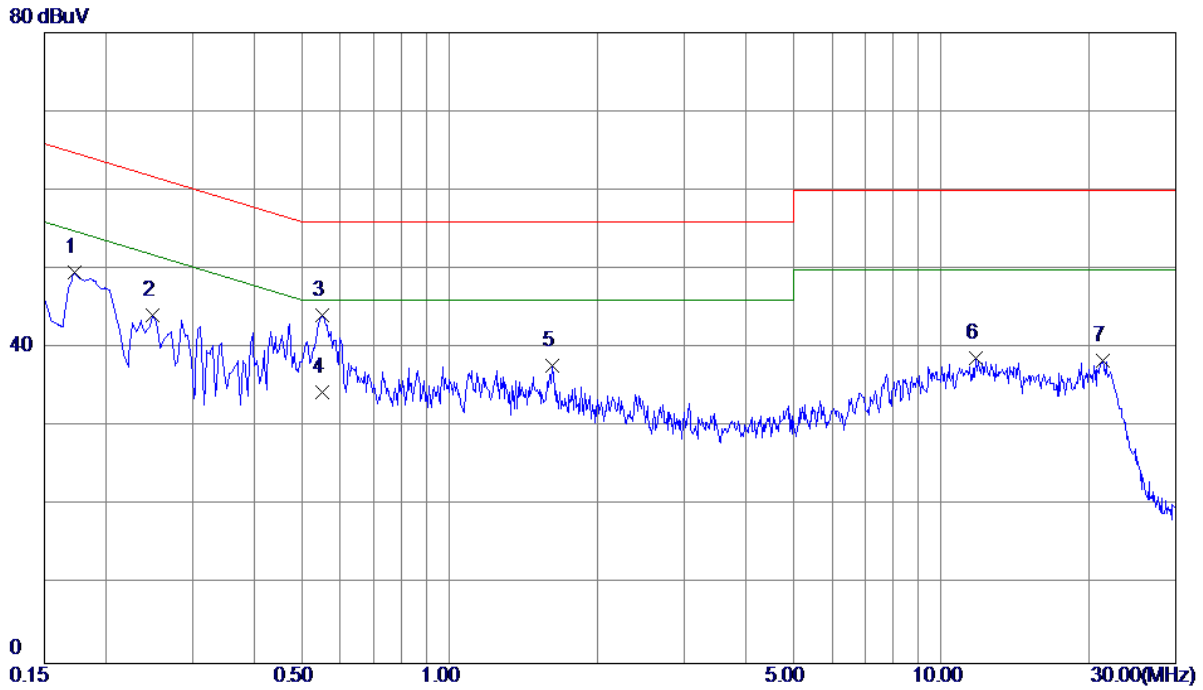
**Line**



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	37.40	9.79	47.19	66.00	-18.81	Peak	
2	0.2040	34.88	9.76	44.64	63.45	-18.81	Peak	
3	0.3255	30.96	9.77	40.73	59.57	-18.84	Peak	
4 *	0.5730	28.96	9.81	38.77	56.00	-17.23	Peak	
5	12.0570	28.17	10.44	38.61	60.00	-21.39	Peak	
6	19.8645	32.12	10.65	42.77	60.00	-17.23	Peak	

Test Mode: TX Mode\_Adapter: BYD

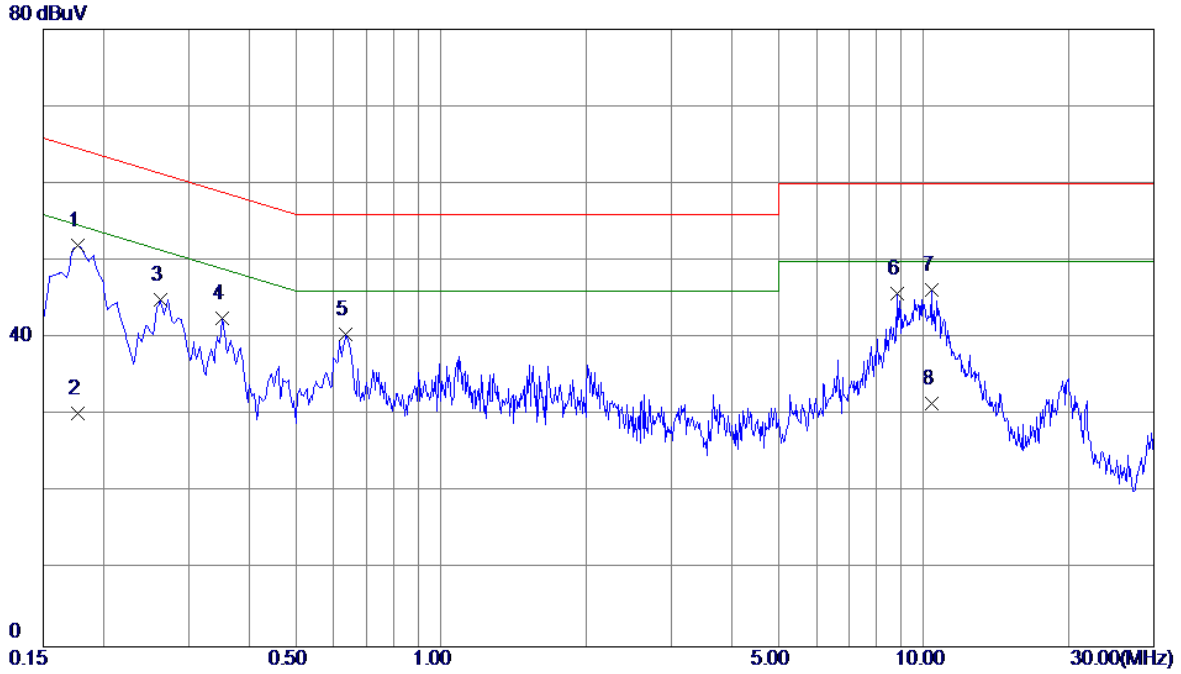
### Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1725	39.90	9.68	49.58	64.84	-15.26	Peak	
2	0.2490	34.45	9.67	44.12	61.79	-17.67	Peak	
3	0.5505	34.46	9.70	44.16	56.00	-11.84	Peak	
4 *	0.5505	24.71	9.70	34.41	46.00	-11.59	AVG	
5	1.6215	28.02	9.80	37.82	56.00	-18.18	Peak	
6	11.7555	28.26	10.40	38.66	60.00	-21.34	Peak	
7	21.3090	27.60	10.80	38.40	60.00	-21.60	Peak	

Test Mode: TX Mode\_Adapter: PHITEK

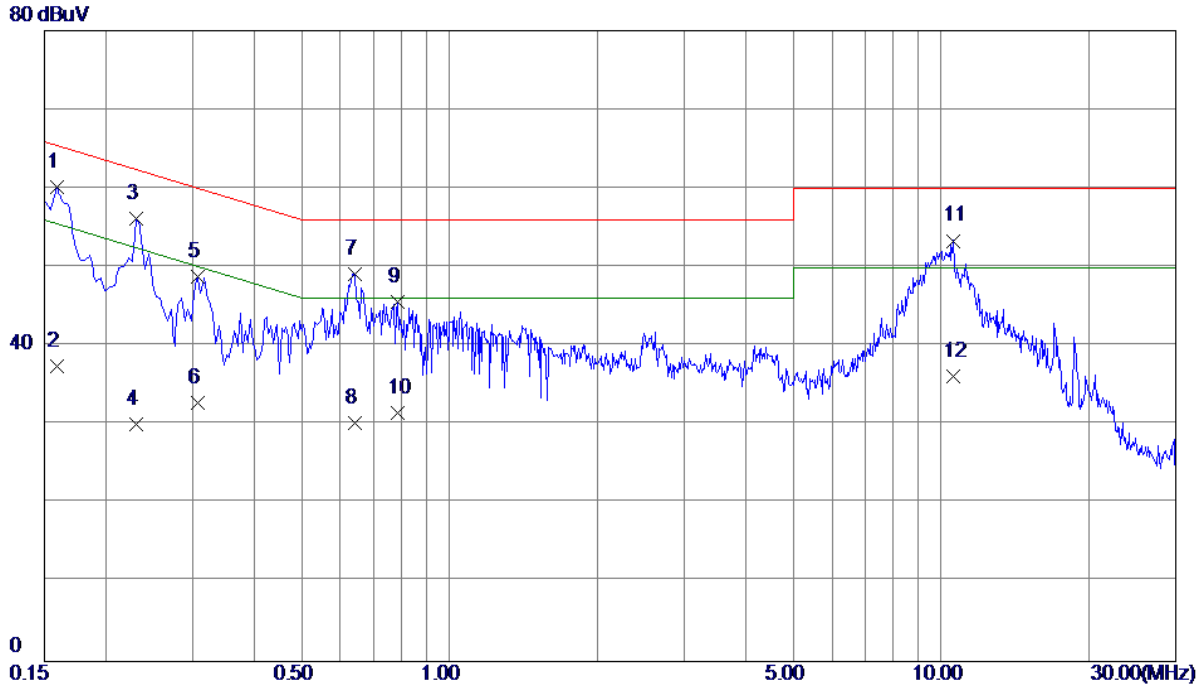
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1770	42.23	9.78	52.01	64.63	-12.62	Peak	
2	0.1770	20.40	9.78	30.18	54.63	-24.45	AVG	
3	0.2625	35.18	9.76	44.94	61.35	-16.41	Peak	
4	0.3525	32.70	9.79	42.49	58.90	-16.41	Peak	
5	0.6360	30.64	9.81	40.45	56.00	-15.55	Peak	
6	8.8170	35.52	10.26	45.78	60.00	-14.22	Peak	
7	10.3920	35.87	10.34	46.21	60.00	-13.79	Peak	
8	10.3920	21.20	10.34	31.54	50.00	-18.46	AVG	

Test Mode: TX Mode\_Adapter: PHITEK

### Neutral



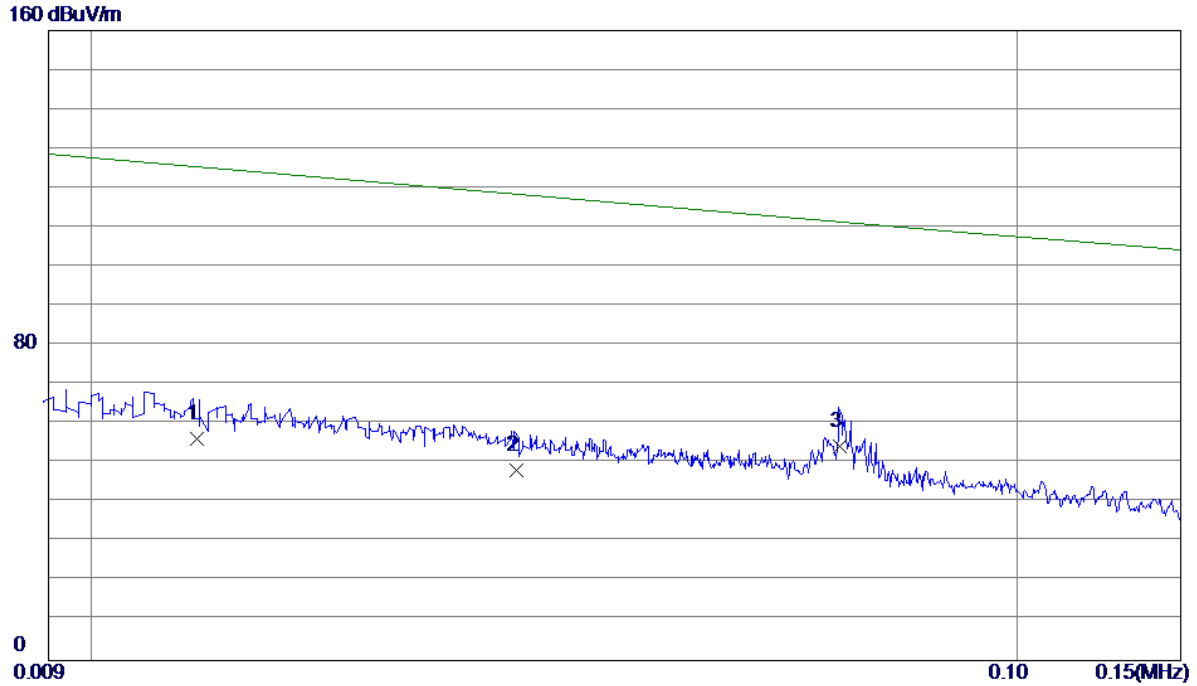
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1590	50.48	9.68	60.16	65.52	-5.36	Peak	
2	0.1590	27.80	9.68	37.48	55.52	-18.04	AVG	
3	0.2310	46.53	9.68	56.21	62.41	-6.20	Peak	
4	0.2310	20.40	9.68	30.08	52.41	-22.33	AVG	
5	0.3075	39.19	9.68	48.87	60.04	-11.17	Peak	
6	0.3075	23.12	9.68	32.80	50.04	-17.24	AVG	
7	0.6405	39.38	9.71	49.09	56.00	-6.91	Peak	
8	0.6405	20.50	9.71	30.21	46.00	-15.79	AVG	
9	0.7845	35.90	9.72	45.62	56.00	-10.38	Peak	
10	0.7845	21.80	9.72	31.52	46.00	-14.48	AVG	
11	10.6125	43.05	10.31	53.36	60.00	-6.64	Peak	
12	10.6125	25.90	10.31	36.21	50.00	-13.79	AVG	



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

Test Mode: TX Mode\_Adapter: HUNTKEY

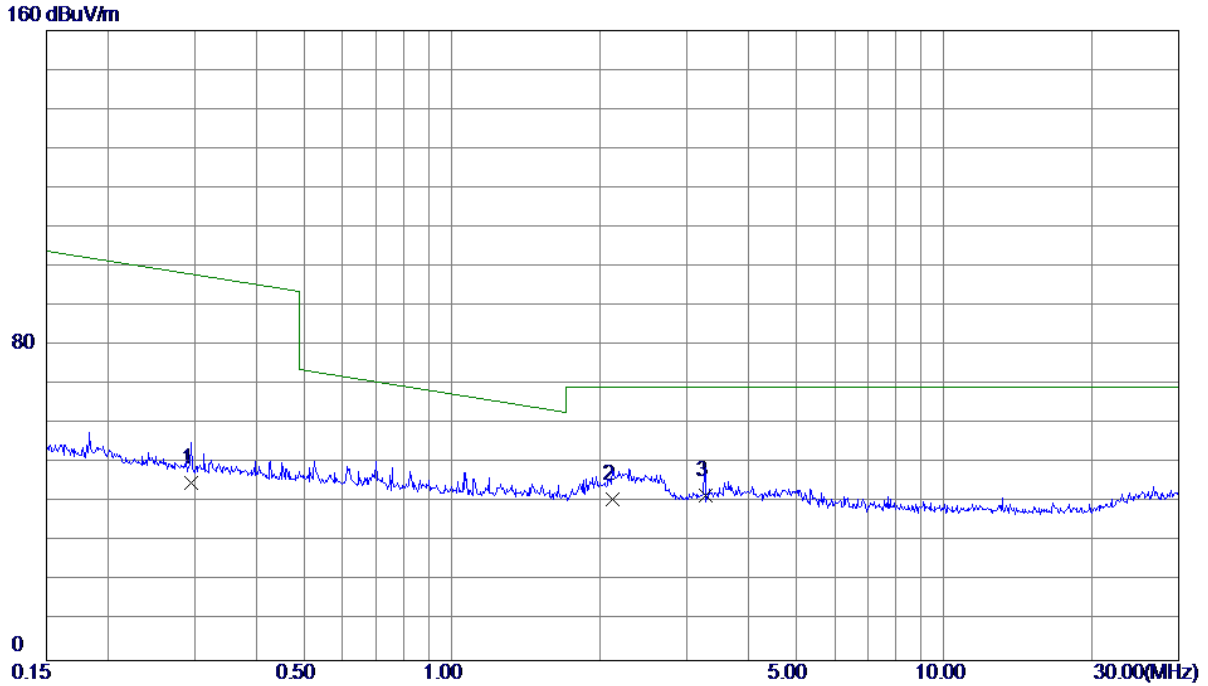
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0130	35.88	20.53	56.41	127.51	-71.10	AVG	
2	0.0288	28.97	19.36	48.33	123.61	-75.28	AVG	
3 *	0.0643	35.88	18.44	54.32	114.84	-60.52	AVG	

Test Mode: TX Mode\_Adapter: HUNTKEY

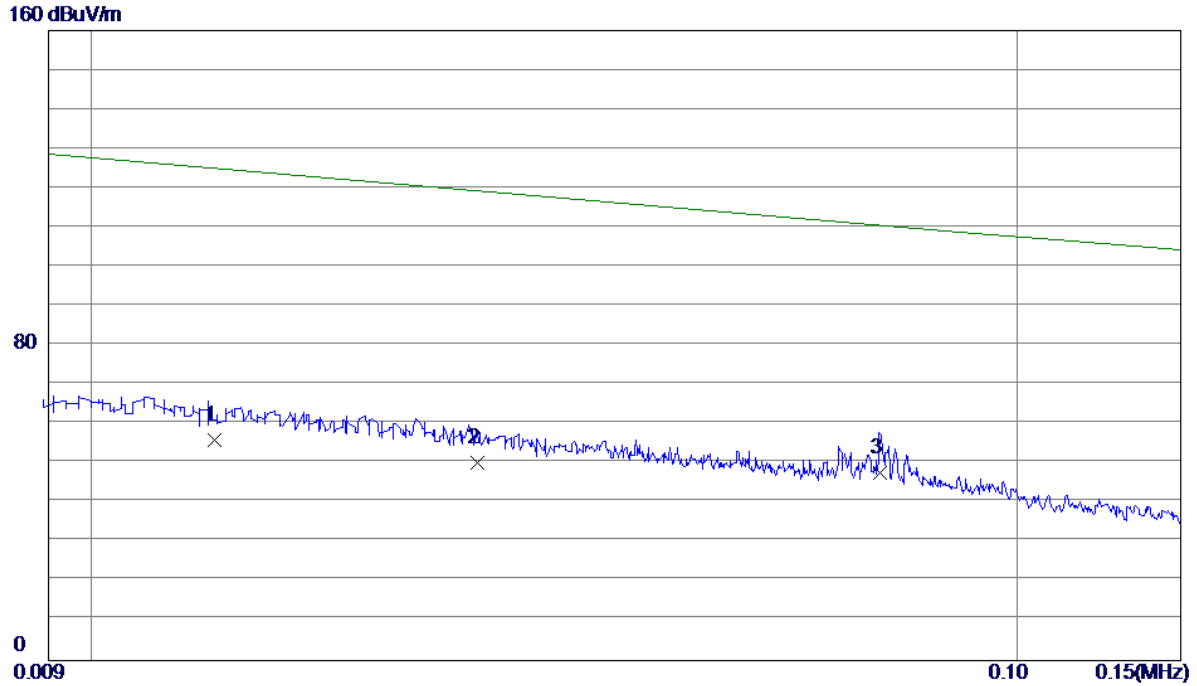
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2955	28.57	16.62	45.19	100.44	-55.25	AVG	
2	2.1213	25.50	15.48	40.98	69.54	-28.56	QP	
3 *	3.2756	26.68	15.15	41.83	69.54	-27.71	QP	

Test Mode: TX Mode\_Adapter: HUNTKEY

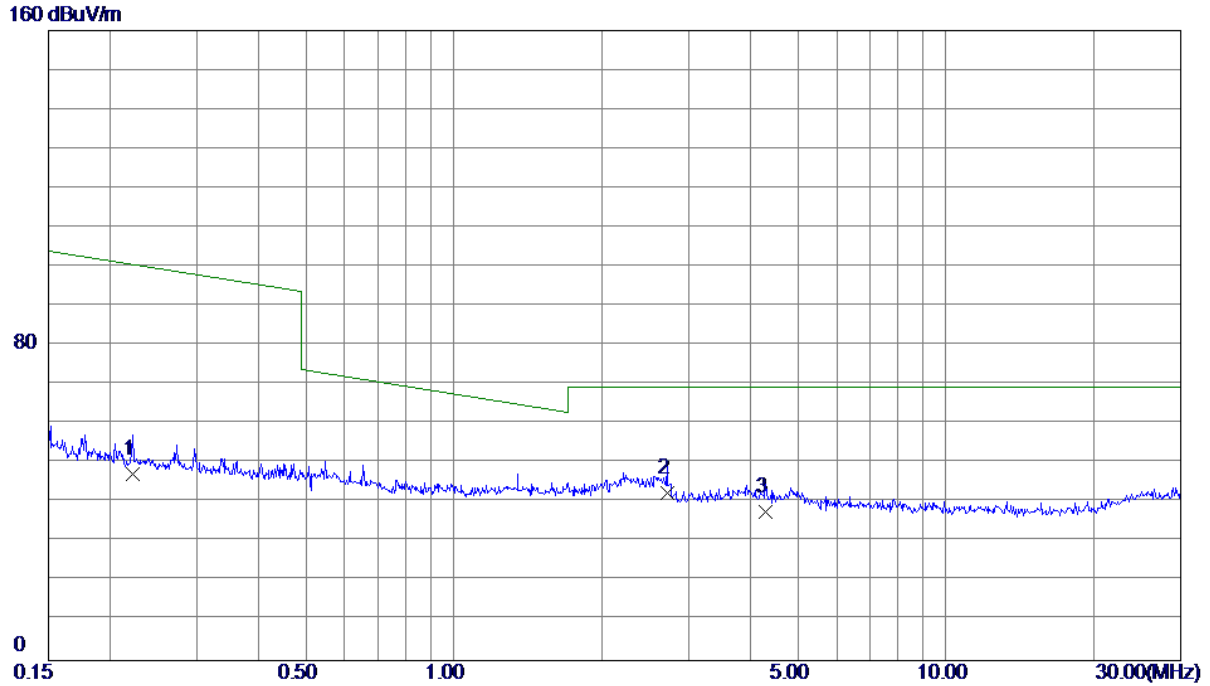
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0136	35.47	20.45	55.92	127.36	-71.44	AVG	
2	0.0261	30.85	19.44	50.29	124.27	-73.98	AVG	
3 *	0.0711	29.49	18.30	47.79	113.16	-65.37	AVG	

Test Mode: TX Mode\_Adapter: HUNTKEY

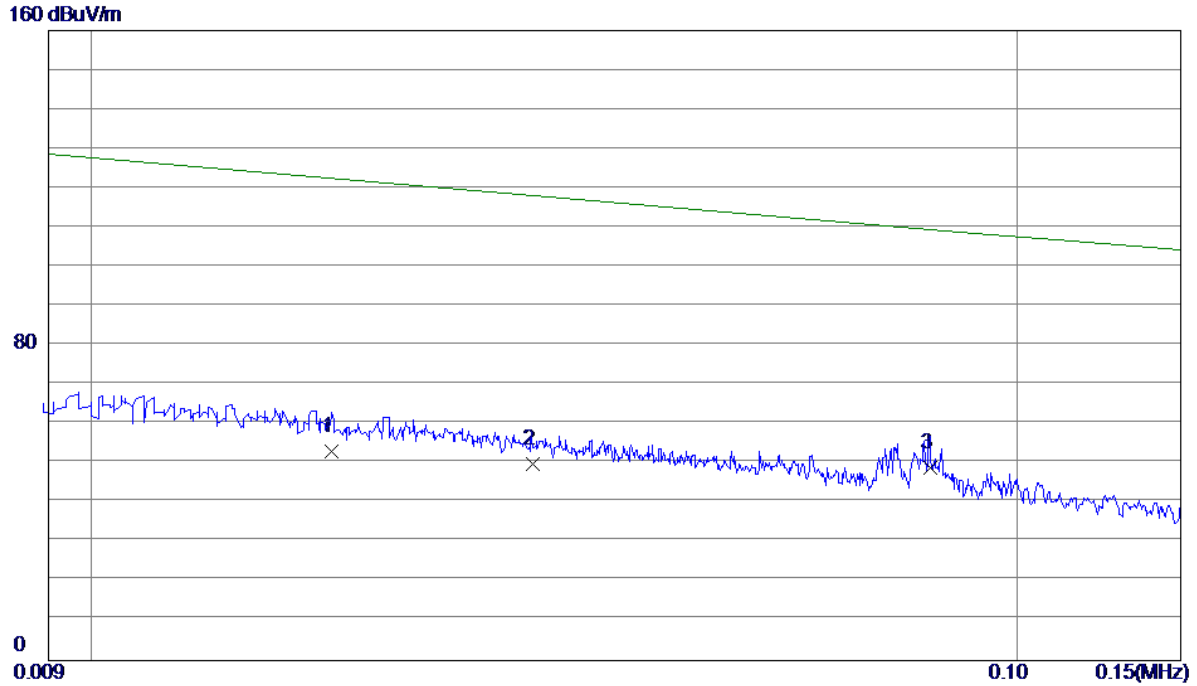
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2220	30.49	16.74	47.23	102.95	-55.72	AVG	
2 *	2.7212	27.13	15.31	42.44	69.54	-27.10	QP	
3	4.2918	22.89	14.78	37.67	69.54	-31.87	QP	

Test Mode: TX Mode\_Adapter: BYD

Ant 0°

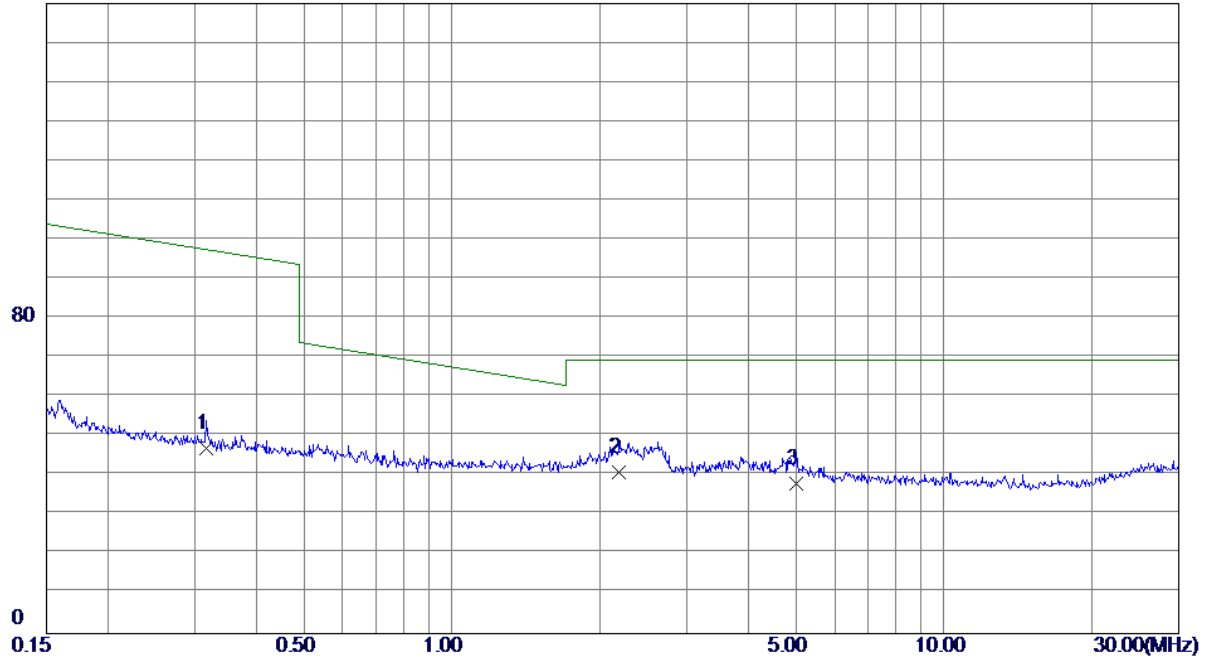


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0182	33.22	19.85	53.07	126.22	-73.15	AVG	
2	0.0300	30.49	19.32	49.81	123.31	-73.50	AVG	
3 *	0.0805	30.75	18.09	48.84	110.84	-62.00	AVG	

Test Mode: TX Mode\_Adapter: BYD

Ant 0°

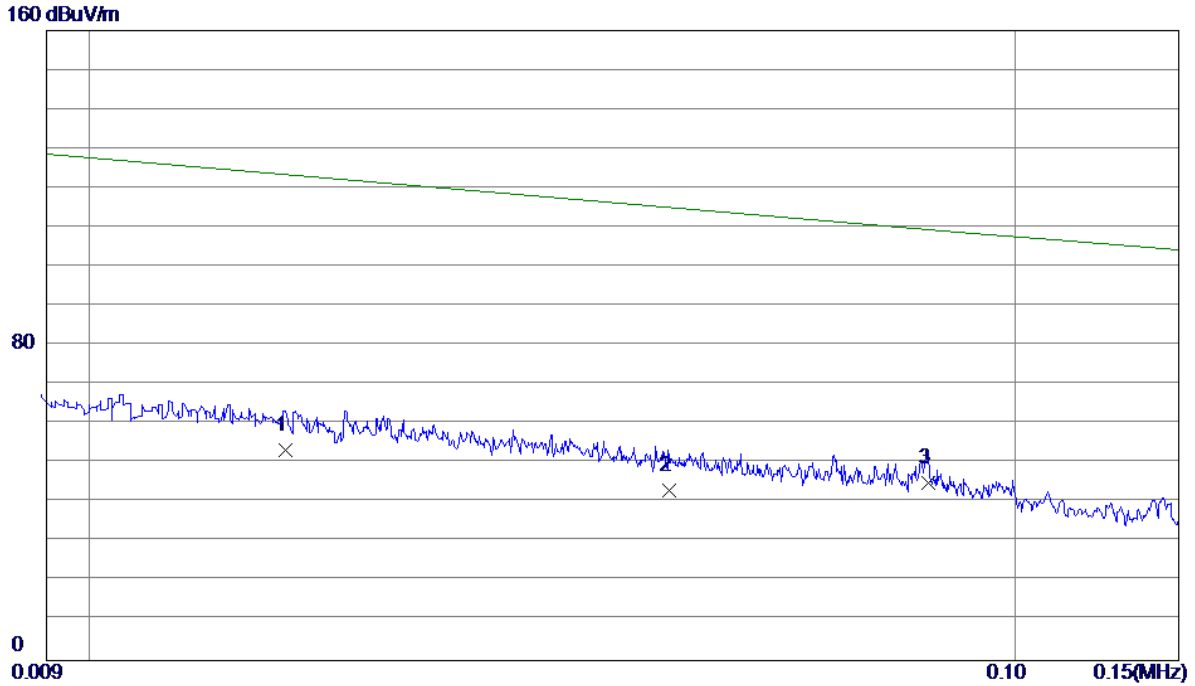
160 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3166	30.36	16.61	46.97	99.72	-52.75	AVG	
2 *	2.1898	25.51	15.46	40.97	69.54	-28.57	QP	
3	5.0046	23.68	14.37	38.05	69.54	-31.49	QP	

Test Mode: TX Mode\_Adapter: BYD

Ant 90°

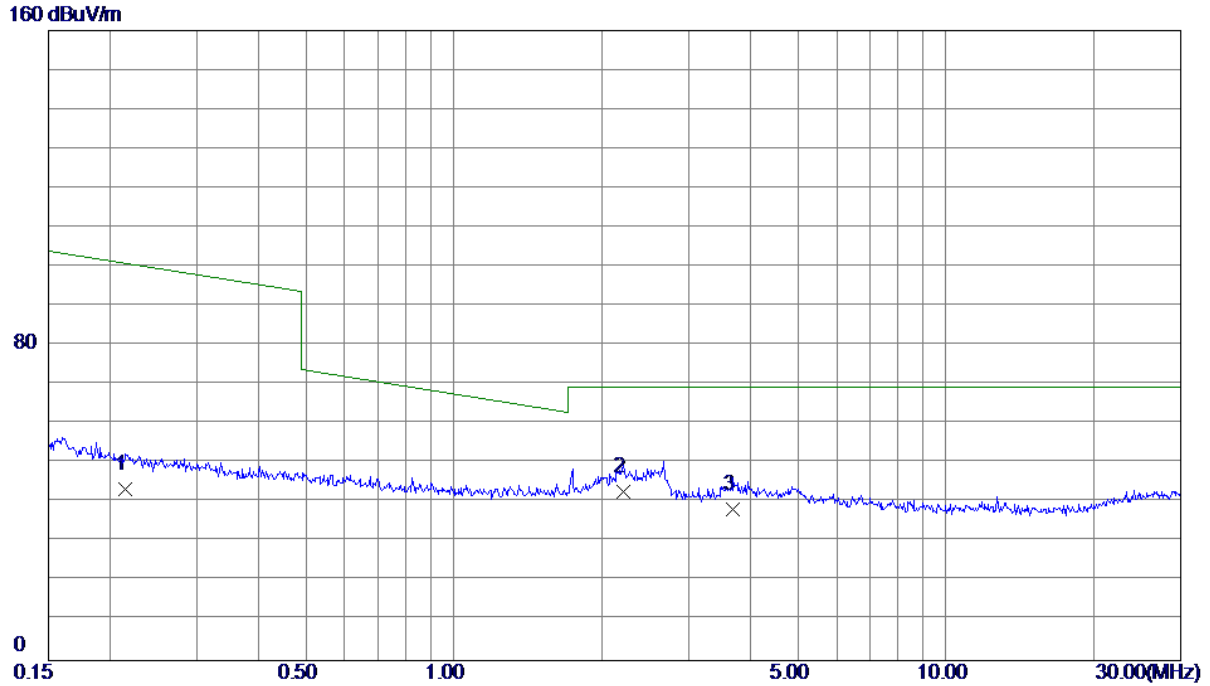


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0163	33.32	20.10	53.42	126.69	-73.27	AVG	
2	0.0423	24.36	18.95	43.31	120.27	-76.96	AVG	
3 *	0.0805	26.98	18.09	45.07	110.84	-65.77	AVG	



Test Mode: TX Mode\_Adapter: BYD

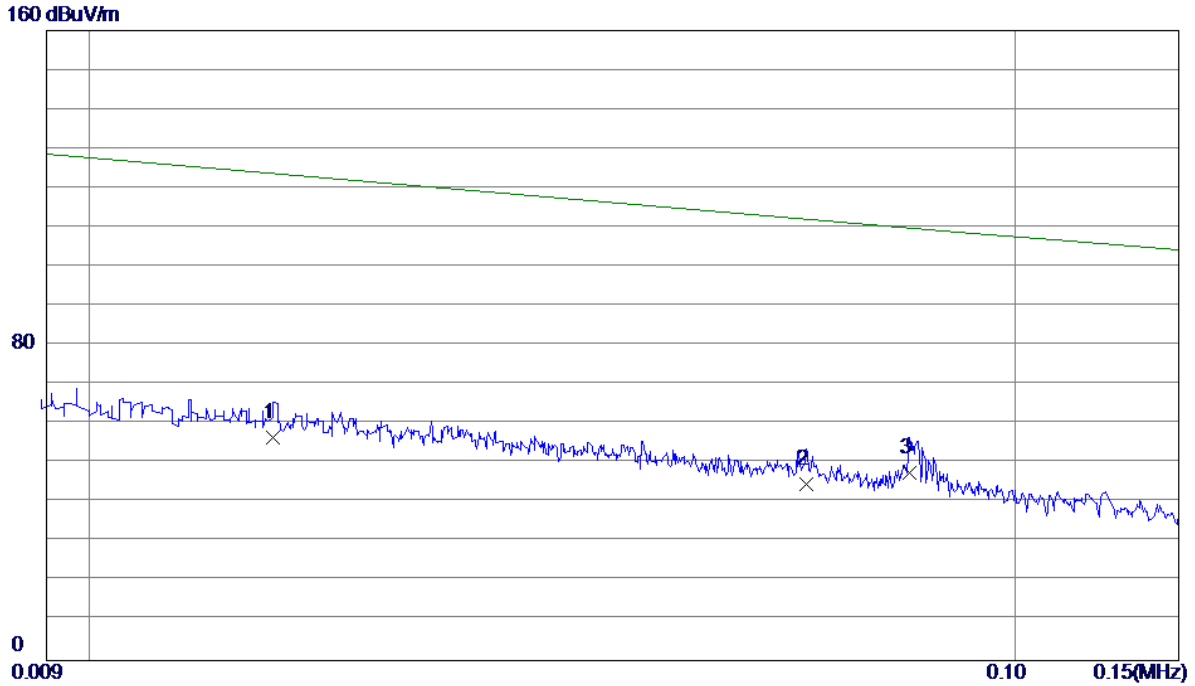
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2151	26.64	16.76	43.40	103.19	-59.79	AVG	
2 *	2.2132	27.34	15.45	42.79	69.54	-26.75	QP	
3	3.7001	23.31	15.03	38.34	69.54	-31.20	QP	

Test Mode: TX Mode\_Adapter: PHITEK

Ant 0°

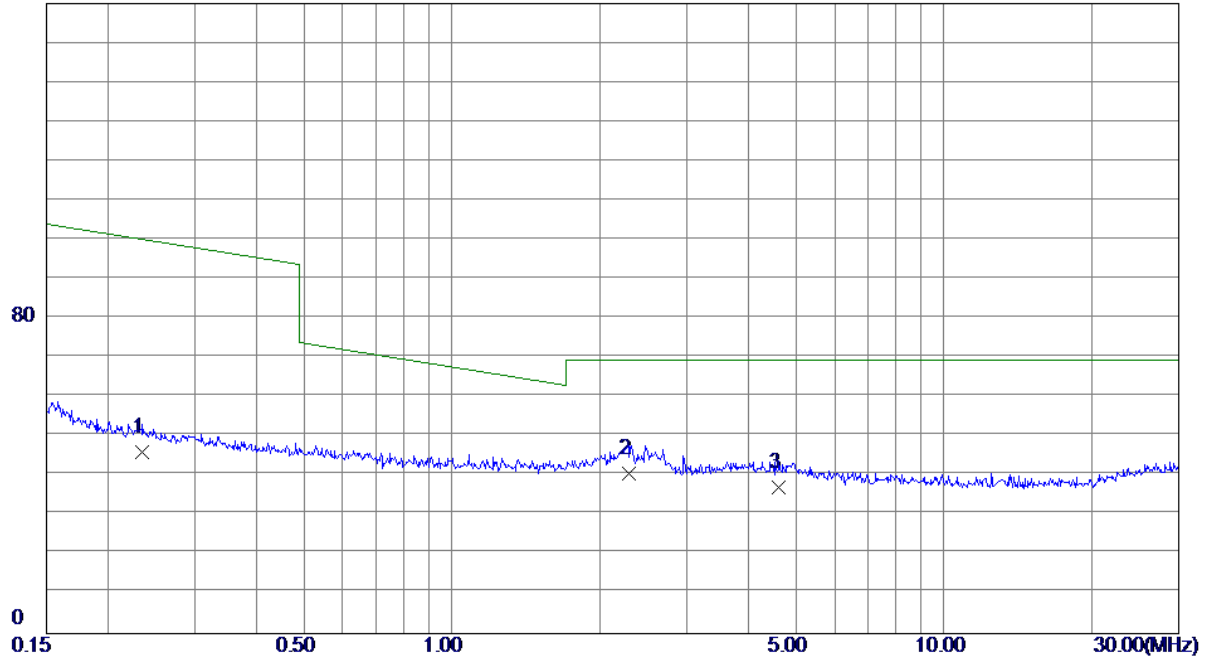


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0158	36.51	20.17	56.68	126.82	-70.14	AVG	
2	0.0594	26.33	18.54	44.87	116.05	-71.18	AVG	
3 *	0.0768	29.35	18.18	47.53	111.75	-64.22	AVG	

Test Mode: TX Mode\_Adapter: PHITEK

Ant 0°

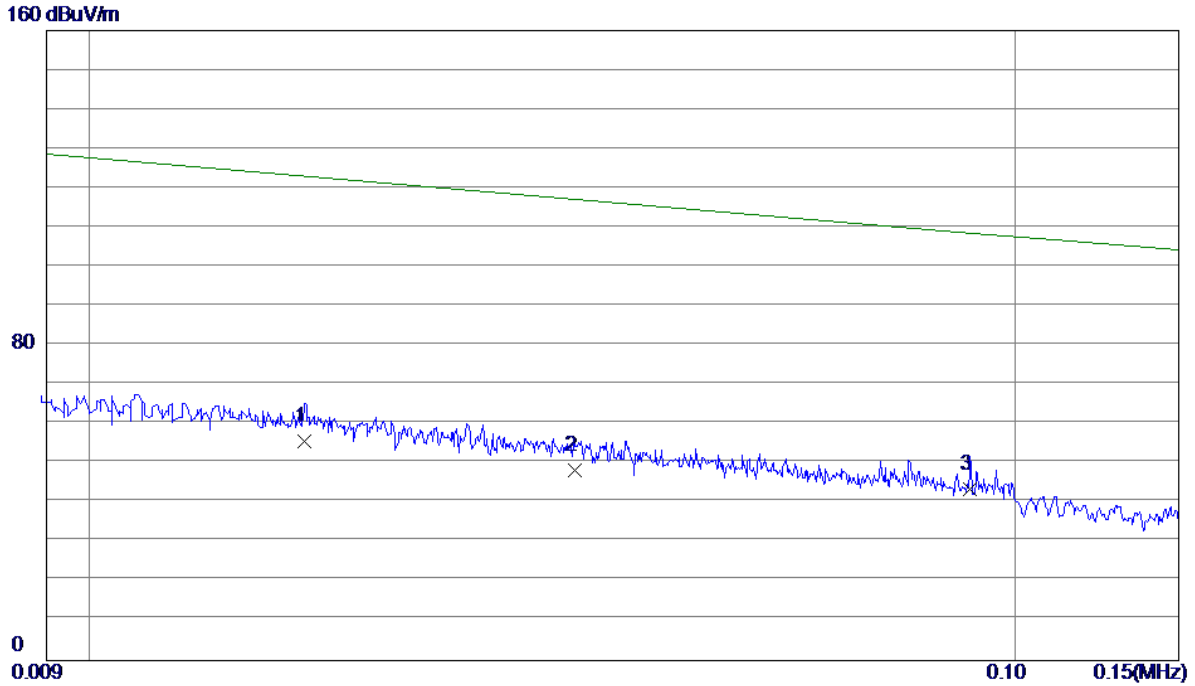
160 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2353	29.45	16.70	46.15	102.50	-56.35	AVG	
2 *	2.2847	25.31	15.43	40.74	69.54	-28.80	QP	
3	4.6223	22.41	14.59	37.00	69.54	-32.54	QP	

Test Mode: TX Mode\_Adapter: PHITEK

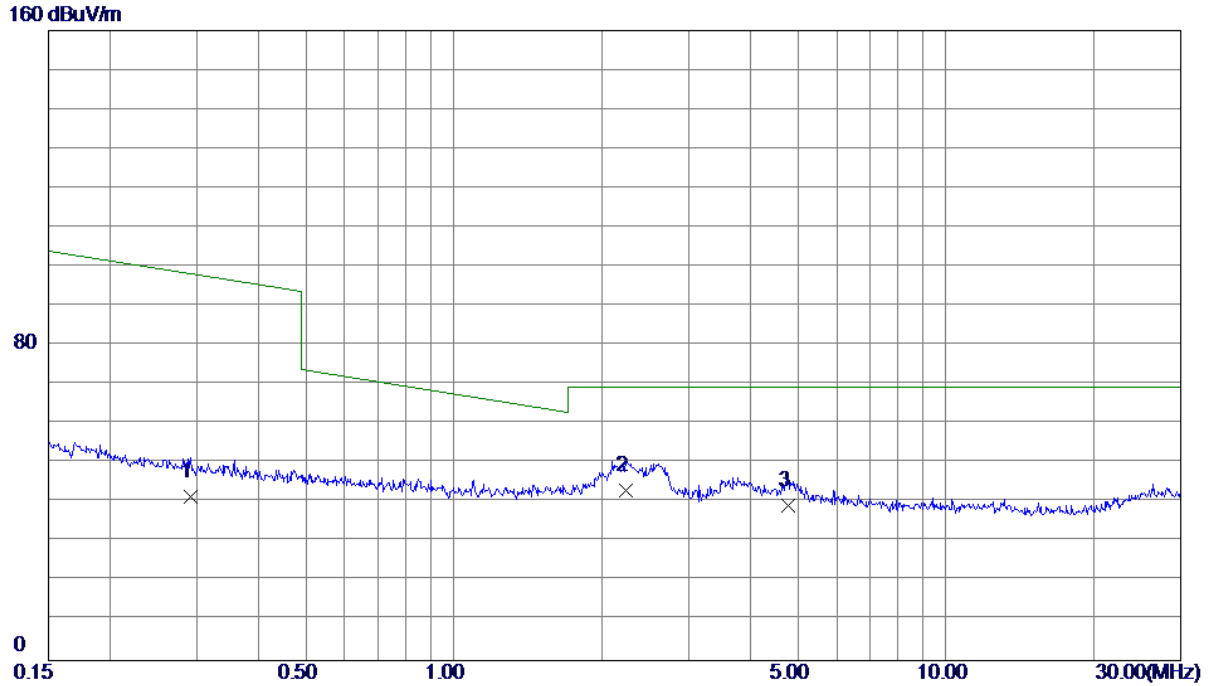
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0171	35.64	20.00	55.64	126.50	-70.86	AVG	
2	0.0335	29.12	19.22	48.34	122.45	-74.11	AVG	
3 *	0.0894	25.68	17.88	43.56	108.64	-65.08	AVG	

Test Mode: TX Mode\_Adapter: PHITEK

Ant 90°

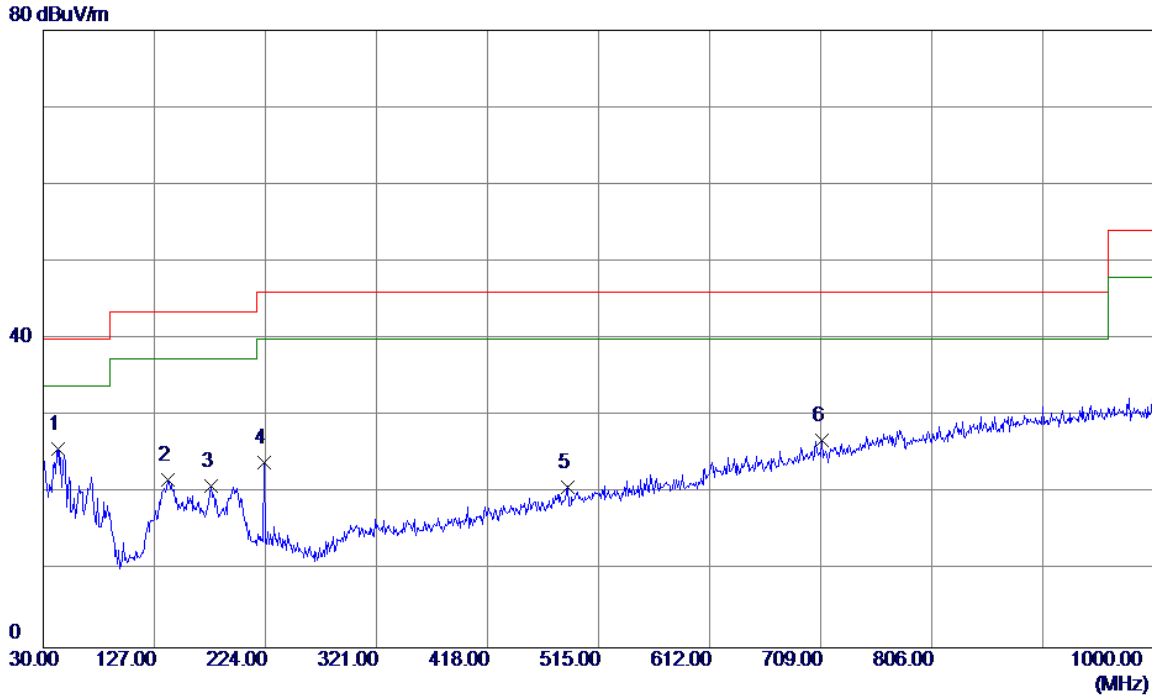


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2924	24.98	16.62	41.60	100.55	-58.95	AVG	
2 *	2.2367	27.68	15.44	43.12	69.54	-26.42	QP	
3	4.7716	24.96	14.50	39.46	69.54	-30.08	QP	

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

Test Mode: TX 2402MHz \_CH00\_1Mbps\_Adapter: HUNTKEY

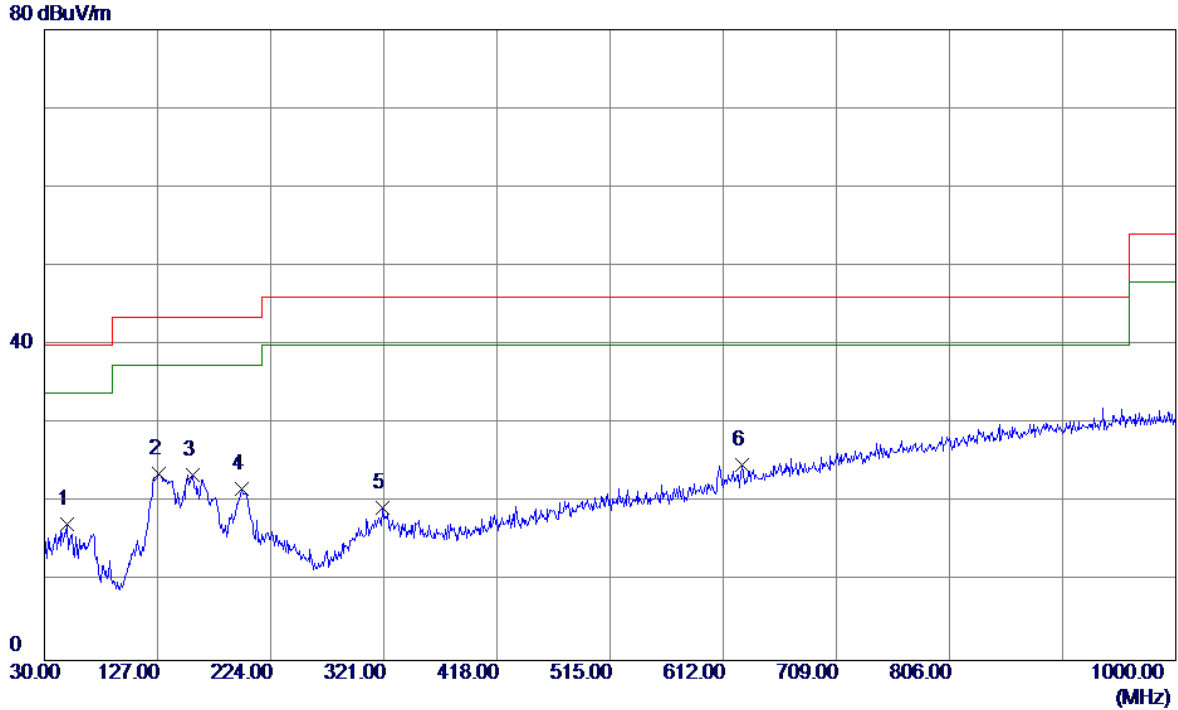
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	39.42	-13.60	25.82	40.00	-14.18	Peak	
2	138.6400	35.98	-14.28	21.70	43.50	-21.80	Peak	
3	176.4700	33.15	-12.14	21.01	43.50	-22.49	Peak	
4	223.0300	37.94	-13.97	23.97	46.00	-22.03	Peak	
5	487.8400	29.90	-9.02	20.88	46.00	-25.12	Peak	
6	709.9699	30.48	-3.64	26.84	46.00	-19.16	Peak	

Test Mode: TX 2402MHz \_CH00\_1Mbps\_Adapter: HUNTKEY

**Horizontal**

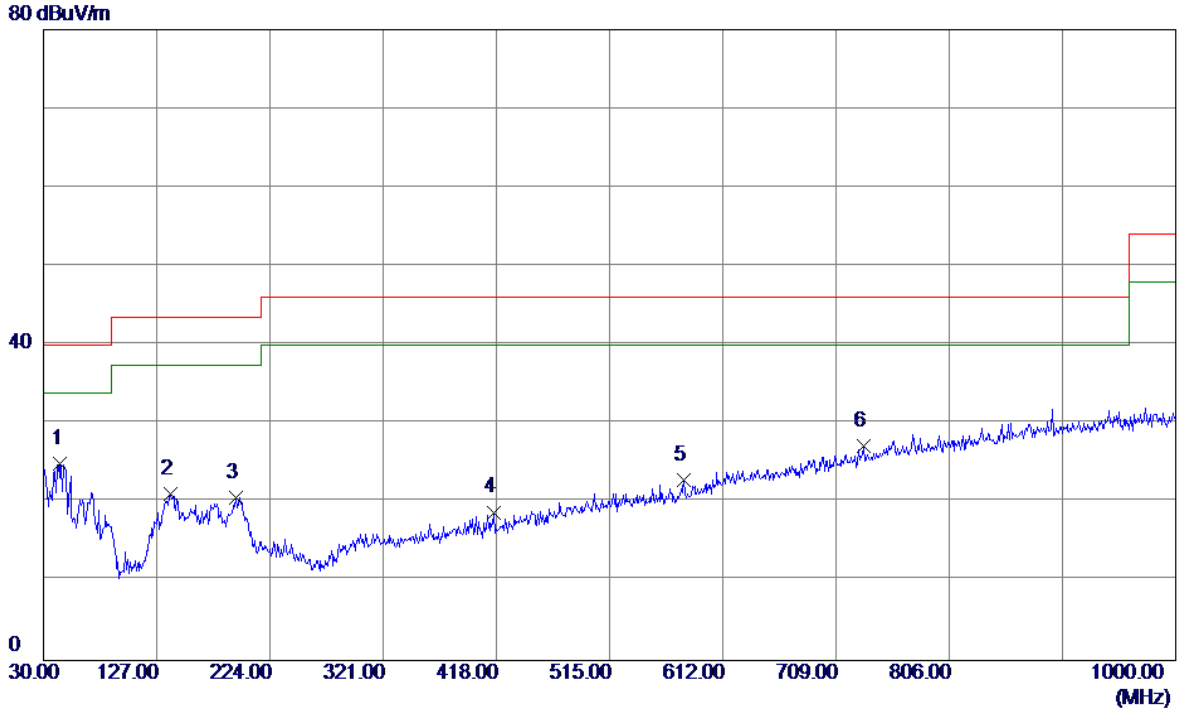


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	49.4000	30.81	-13.46	17.35	40.00	-22.65	Peak	
2 *	127.9700	38.55	-14.85	23.70	43.50	-19.80	Peak	
3	157.0700	36.62	-13.10	23.52	43.50	-19.98	Peak	
4	198.7800	35.46	-13.64	21.82	43.50	-21.68	Peak	
5	320.0300	31.80	-12.48	19.32	46.00	-26.68	Peak	
6	628.4900	30.71	-5.88	24.83	46.00	-21.17	Peak	



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

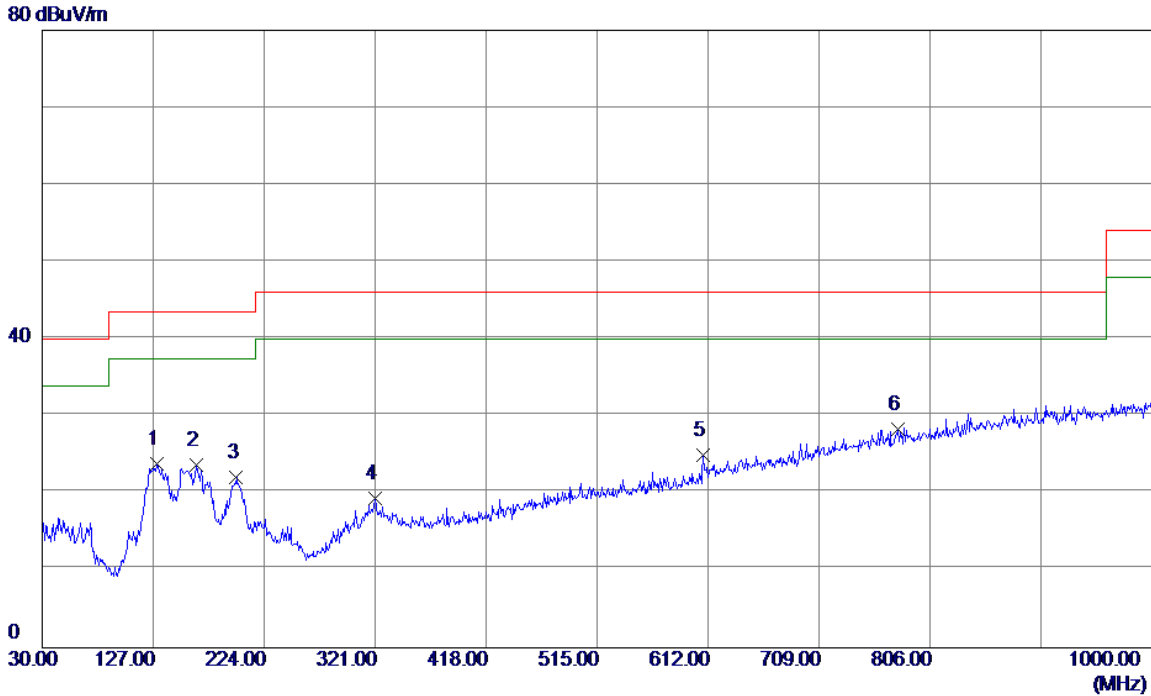
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	44.5500	38.36	-13.36	25.00	40.00	-15.00	Peak	
2	138.6400	35.46	-14.28	21.18	43.50	-22.32	Peak	
3	194.9000	33.92	-13.29	20.63	43.50	-22.87	Peak	
4	416.0600	29.70	-10.90	18.80	46.00	-27.20	Peak	
5	579.0200	29.77	-6.96	22.81	46.00	-23.19	Peak	
6	732.2800	30.17	-2.97	27.20	46.00	-18.80	Peak	

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

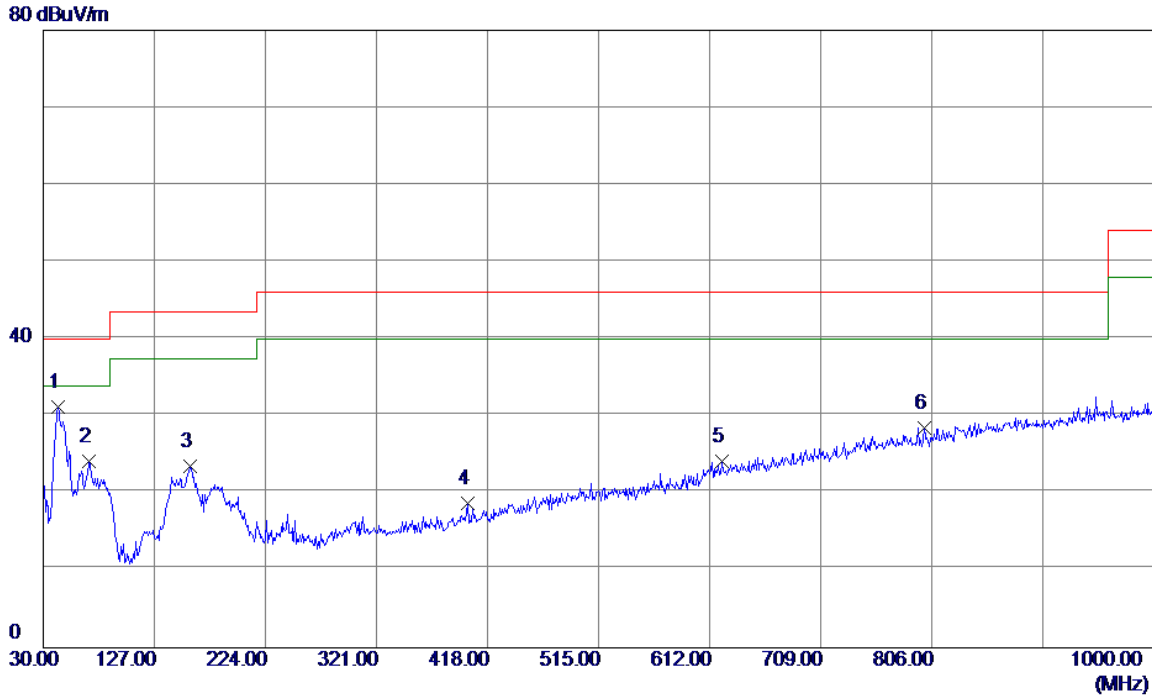
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	129.9100	38.57	-14.71	23.86	43.50	-19.64	Peak	
2	164.8300	36.37	-12.64	23.73	43.50	-19.77	Peak	
3	199.7500	35.75	-13.73	22.02	43.50	-21.48	Peak	
4	321.0000	31.76	-12.46	19.30	46.00	-26.70	Peak	
5	608.1200	31.26	-6.27	24.99	46.00	-21.01	Peak	
6 *	777.8700	30.09	-1.84	28.25	46.00	-17.75	Peak	

Test Mode: TX 2402MHz\_CH00\_1Mbps\_Adapter: BYD

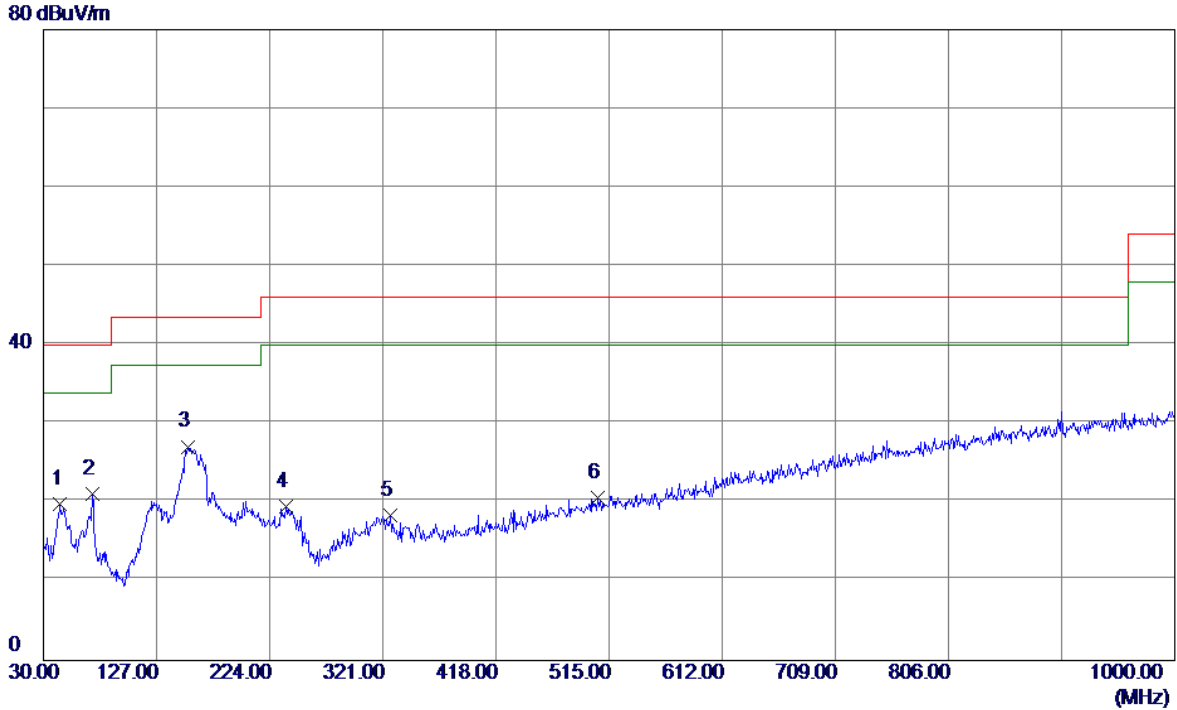
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	44.79	-13.60	31.19	40.00	-8.81	Peak	
2	69.7699	40.59	-16.46	24.13	40.00	-15.87	Peak	
3	158.0399	36.50	-13.05	23.45	43.50	-20.05	Peak	
4	400.5400	30.09	-11.34	18.75	46.00	-27.25	Peak	
5	622.6700	30.09	-5.99	24.10	46.00	-21.90	Peak	
6	799.2100	29.83	-1.38	28.45	46.00	-17.55	Peak	

Test Mode: TX 2402MHz\_CH00\_1Mbps\_Adapter: BYD

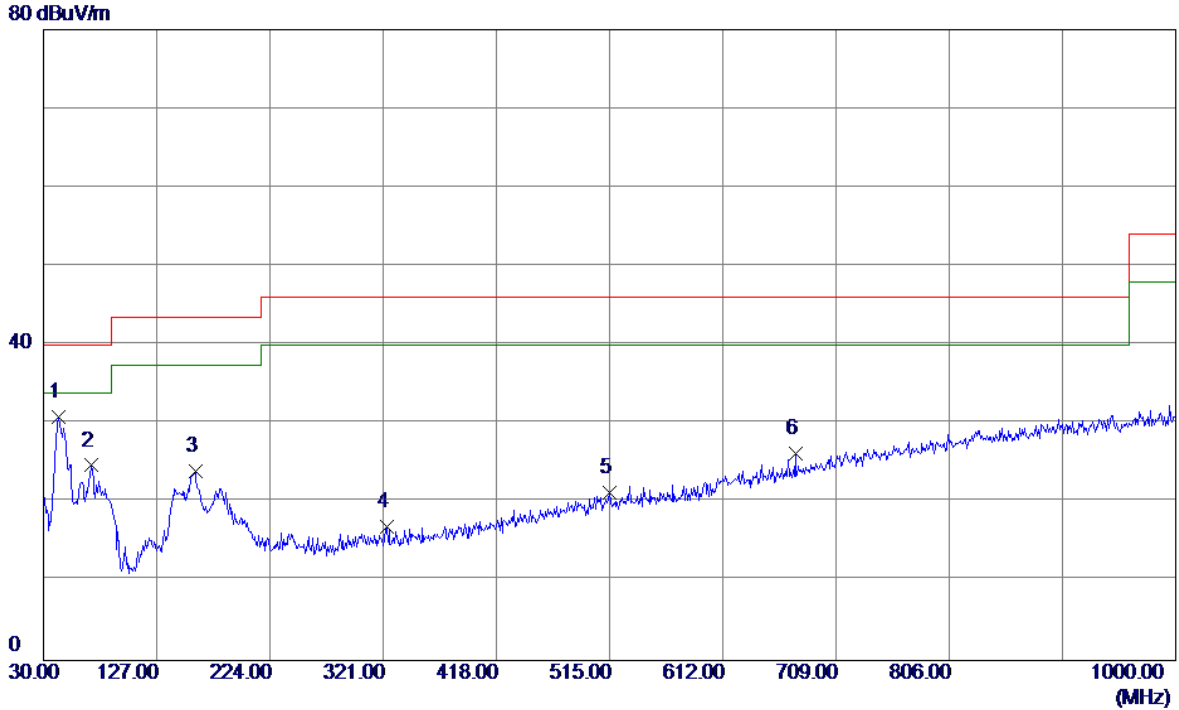
### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	44.5500	33.20	-13.36	19.84	40.00	-20.16	Peak	
2	71.7100	37.83	-16.71	21.12	40.00	-18.88	Peak	
3 *	154.1600	40.40	-13.28	27.12	43.50	-16.38	Peak	
4	237.5800	33.75	-14.30	19.45	46.00	-26.55	Peak	
5	327.7900	30.74	-12.34	18.40	46.00	-27.60	Peak	
6	505.3000	29.18	-8.61	20.57	46.00	-25.43	Peak	

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

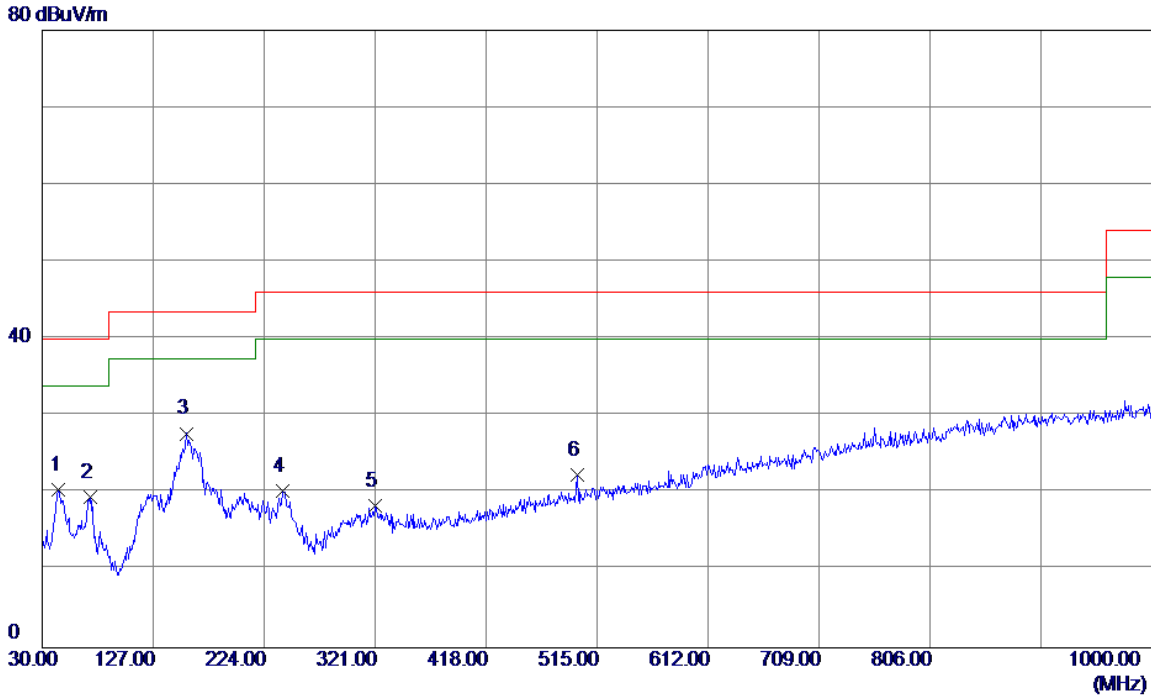
**Vertical**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	44.53	-13.60	30.93	40.00	-9.07	Peak	
2	70.7400	41.32	-16.60	24.72	40.00	-15.28	Peak	
3	159.9800	36.91	-12.93	23.98	43.50	-19.52	Peak	
4	323.9100	29.37	-12.41	16.96	46.00	-29.04	Peak	
5	515.0000	29.67	-8.42	21.25	46.00	-24.75	Peak	
6	674.0800	30.94	-4.74	26.20	46.00	-19.80	Peak	

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

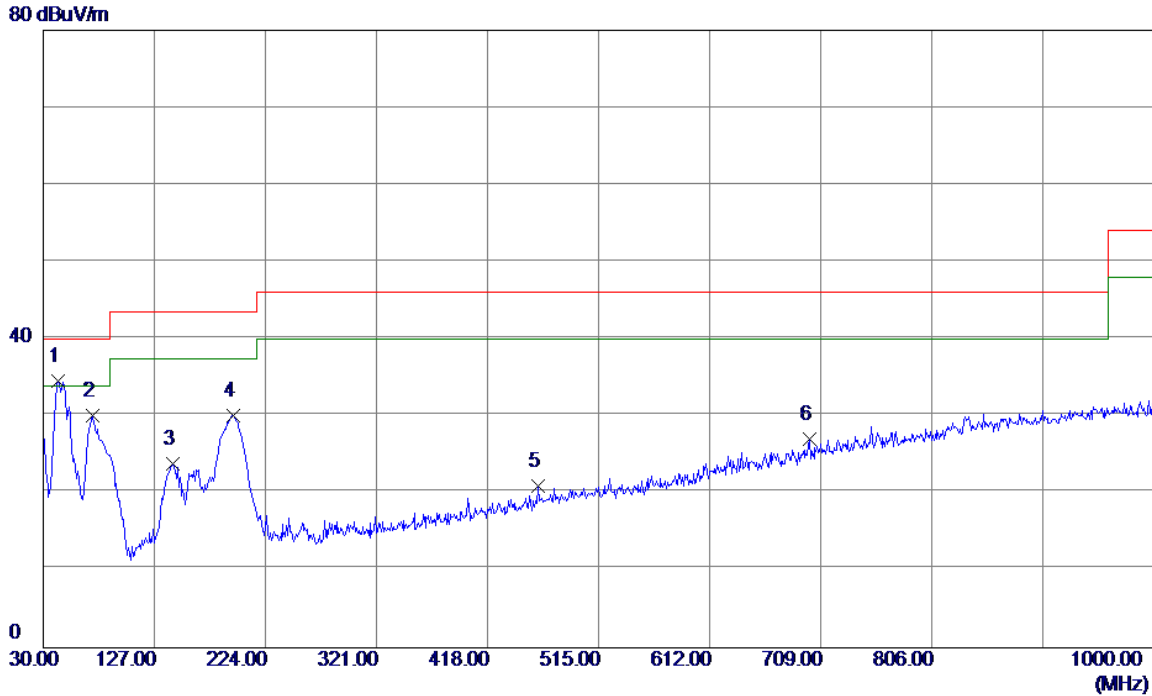
**Horizontal**



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	44.5500	33.91	-13.36	20.55	40.00	-19.45	Peak	
2	71.7100	36.24	-16.71	19.53	40.00	-20.47	Peak	
3 *	156.1000	40.92	-13.16	27.76	43.50	-15.74	Peak	
4	240.4900	34.63	-14.38	20.25	46.00	-25.75	Peak	
5	321.0000	30.84	-12.46	18.38	46.00	-27.62	Peak	
6	497.5400	31.15	-8.78	22.37	46.00	-23.63	Peak	

Test Mode: TX 2402MHz\_CH00\_1Mbps\_Adapter: PHITEK

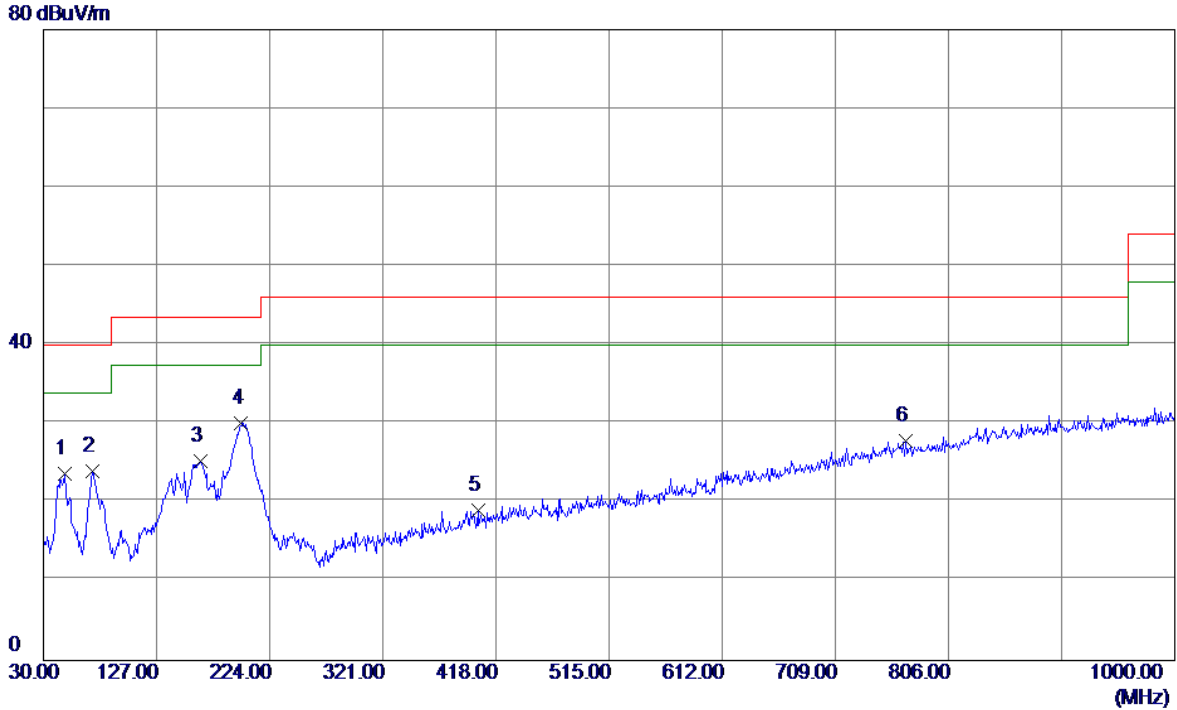
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	48.23	-13.60	34.63	40.00	-5.37	Peak	
2	72.6800	46.86	-16.82	30.04	40.00	-9.96	Peak	
3	143.4900	37.88	-13.97	23.91	43.50	-19.59	Peak	
4	195.8700	43.42	-13.38	30.04	43.50	-13.46	Peak	
5	462.6200	30.53	-9.63	20.90	46.00	-25.10	Peak	
6	699.3000	30.96	-3.96	27.00	46.00	-19.00	Peak	

Test Mode: TX 2402MHz\_CH00\_1Mbps\_Adapter: PHITEK

### Horizontal

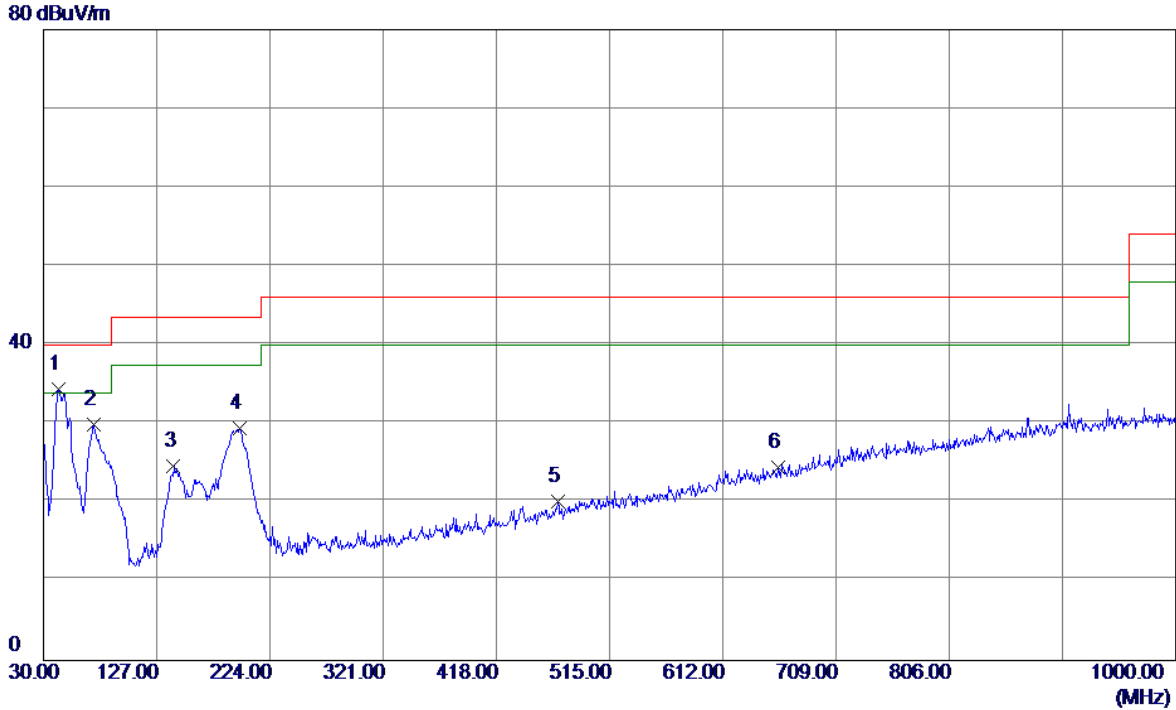


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	48.4300	36.91	-13.28	23.63	40.00	-16.37	Peak	
2	71.7100	40.73	-16.71	24.02	40.00	-15.98	Peak	
3	164.8300	37.94	-12.64	25.30	43.50	-18.20	Peak	
4 *	199.7500	43.86	-13.73	30.13	43.50	-13.37	Peak	
5	402.4800	30.36	-11.29	19.07	46.00	-26.93	Peak	
6	769.1400	29.85	-2.03	27.82	46.00	-18.18	Peak	



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

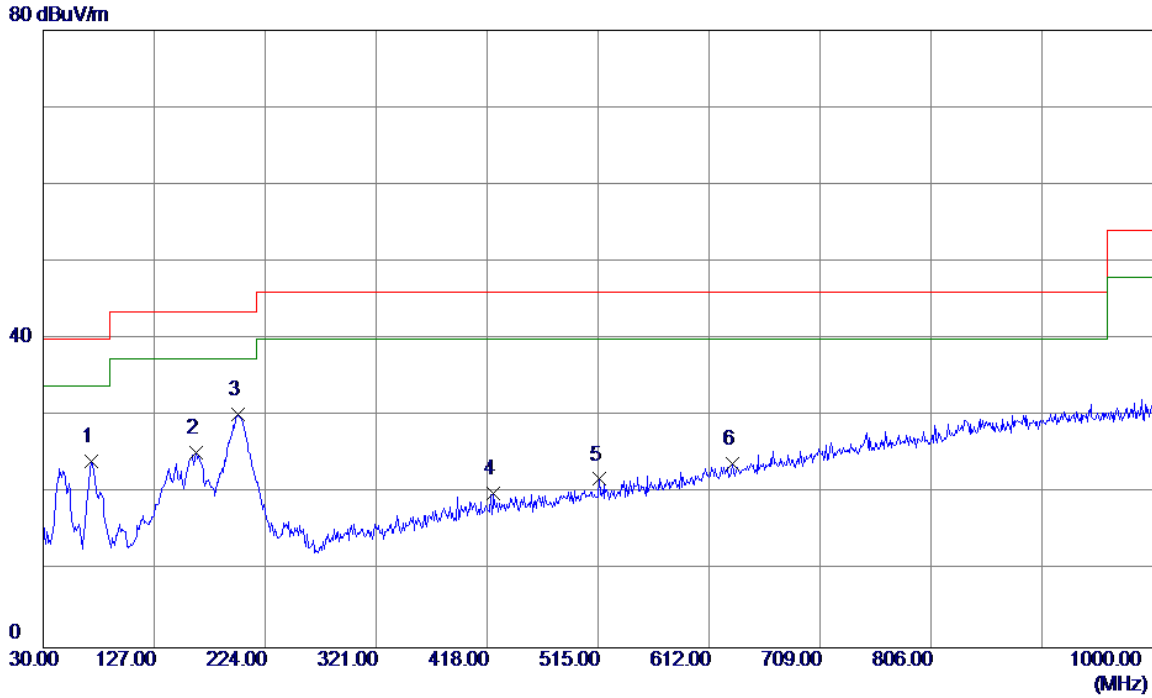
### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	47.98	-13.60	34.38	40.00	-5.62	Peak	
2	72.6800	46.75	-16.82	29.93	40.00	-10.07	Peak	
3	141.5500	38.74	-14.11	24.63	43.50	-18.87	Peak	
4	197.8100	43.01	-13.55	29.46	43.50	-14.04	Peak	
5	470.3800	29.57	-9.44	20.13	46.00	-25.87	Peak	
6	659.5300	29.62	-5.18	24.44	46.00	-21.56	Peak	

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

### Horizontal



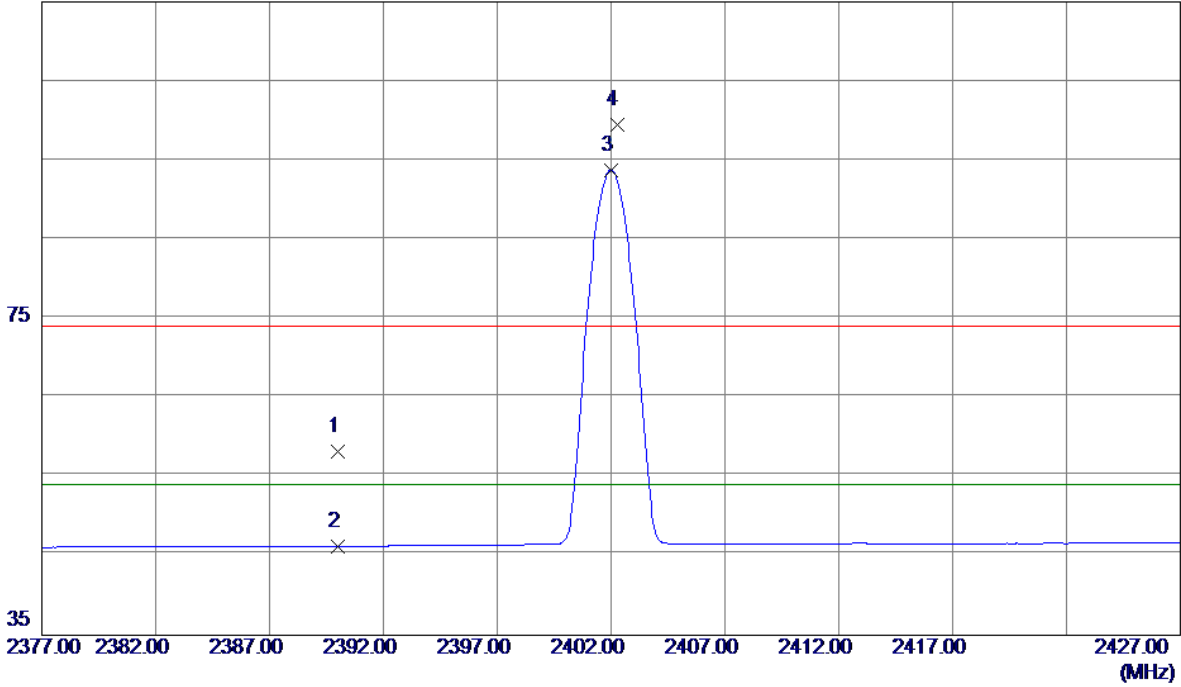
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	71.7100	40.83	-16.71	24.12	40.00	-15.88	Peak	
2	163.8600	38.05	-12.70	25.35	43.50	-18.15	Peak	
3 *	200.7200	43.96	-13.77	30.19	43.50	-13.31	Peak	
4	423.8200	30.67	-10.68	19.99	46.00	-26.01	Peak	
5	515.9699	30.24	-8.40	21.84	46.00	-24.16	Peak	
6	632.3700	29.65	-5.81	23.84	46.00	-22.16	Peak	

## APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode : TX 2402MHz \_CH00\_1Mbps

**Vertical**

115 dBuV/m

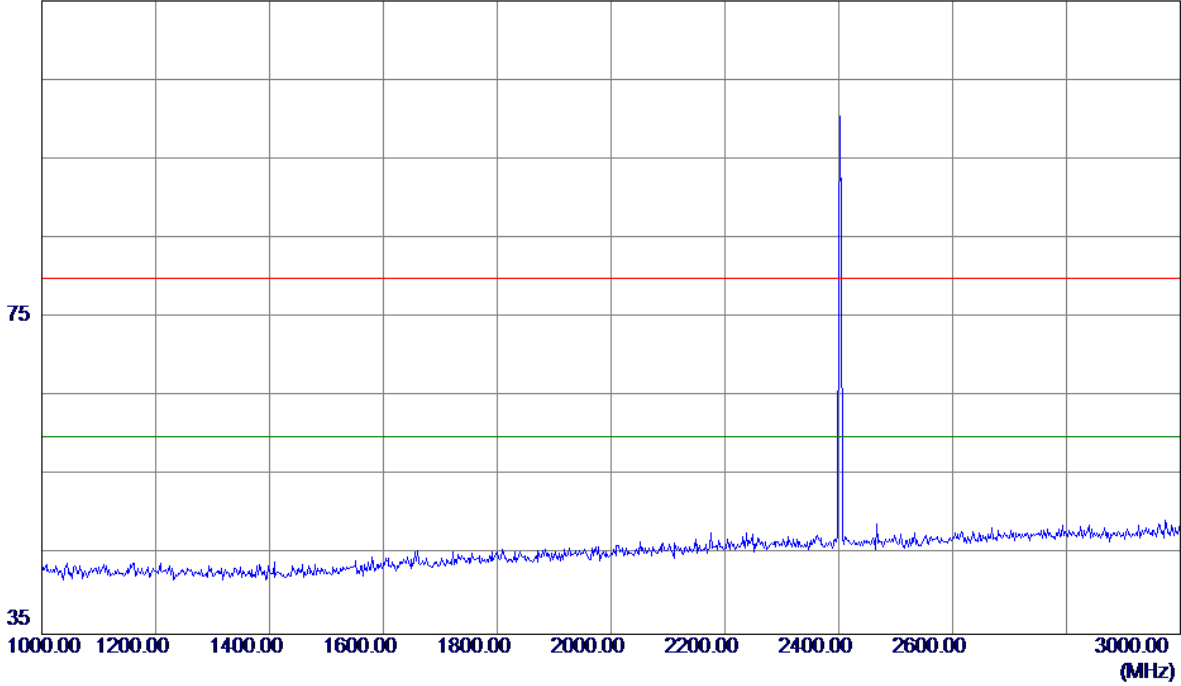


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.16	33.06	58.22	74.00	-15.78	Peak	
2	2390.0000	13.19	33.06	46.25	54.00	-7.75	AVG	
3 *	2402.0000	60.69	33.10	93.79	54.00	39.79	AVG	No Limit
4	2402.2500	66.37	33.10	99.47	74.00	25.47	Peak	No Limit

Test Mode : TX 2402MHz \_CH00\_1Mbps

**Vertical**

115 dBuV/m

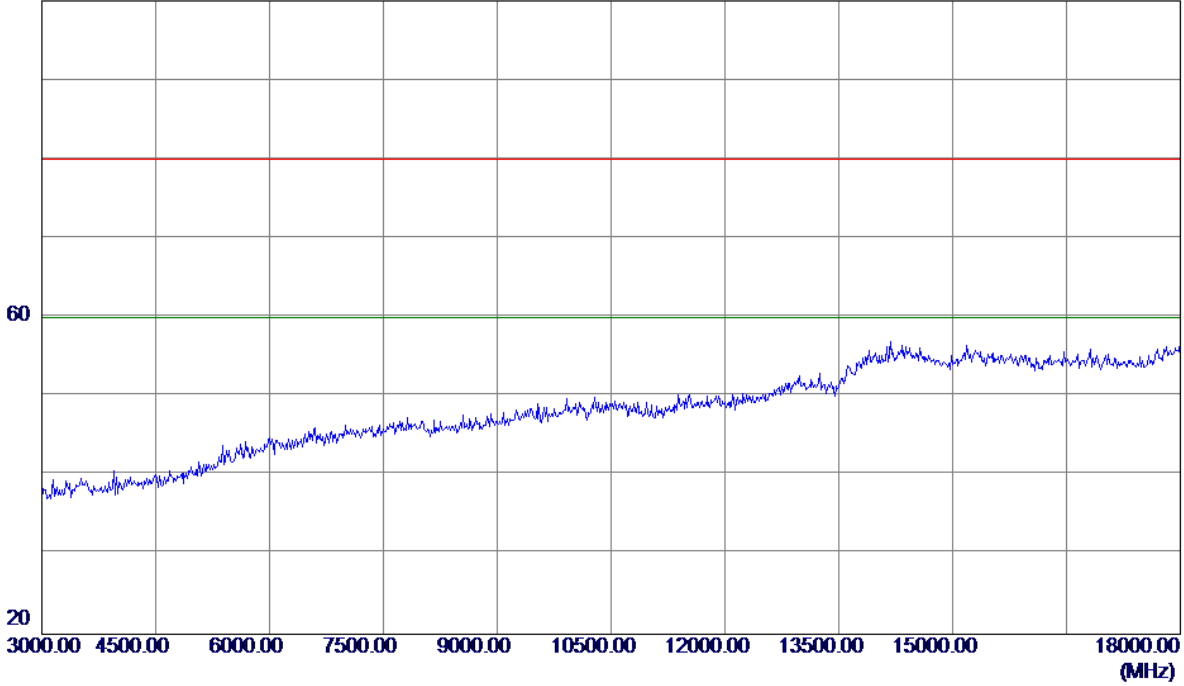


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2402MHz \_CH00\_1Mbps

**Vertical**

100 dBuV/m

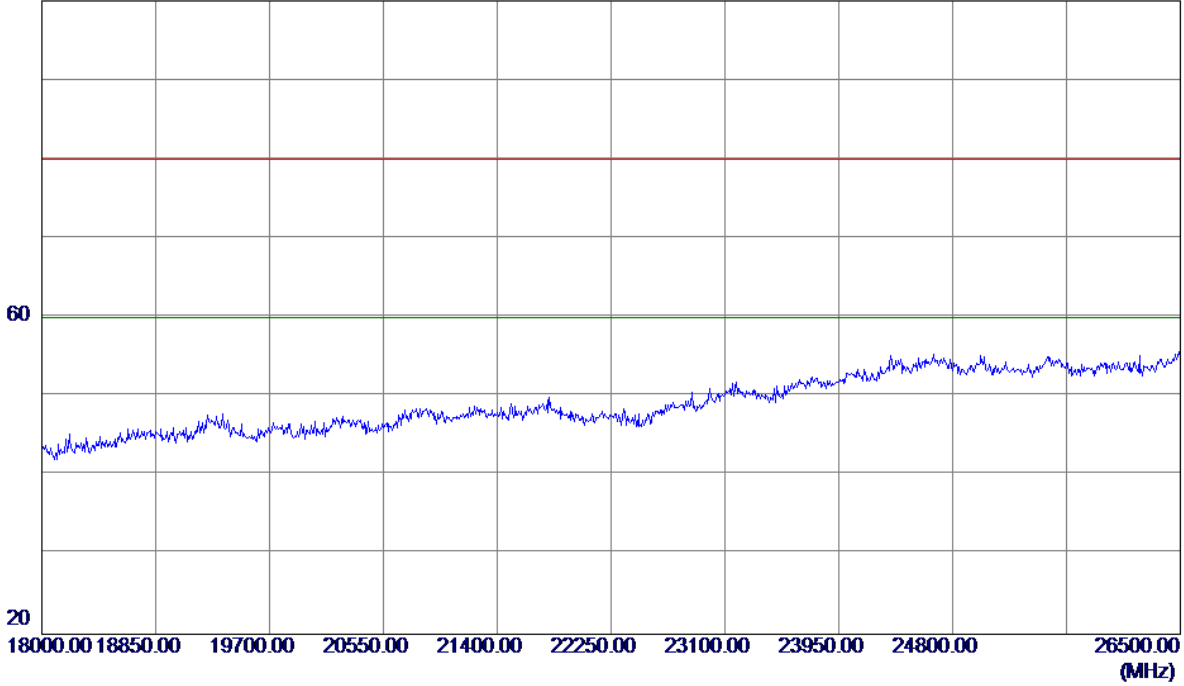


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz \_CH00\_1Mbps

**Vertical**

100 dBuV/m

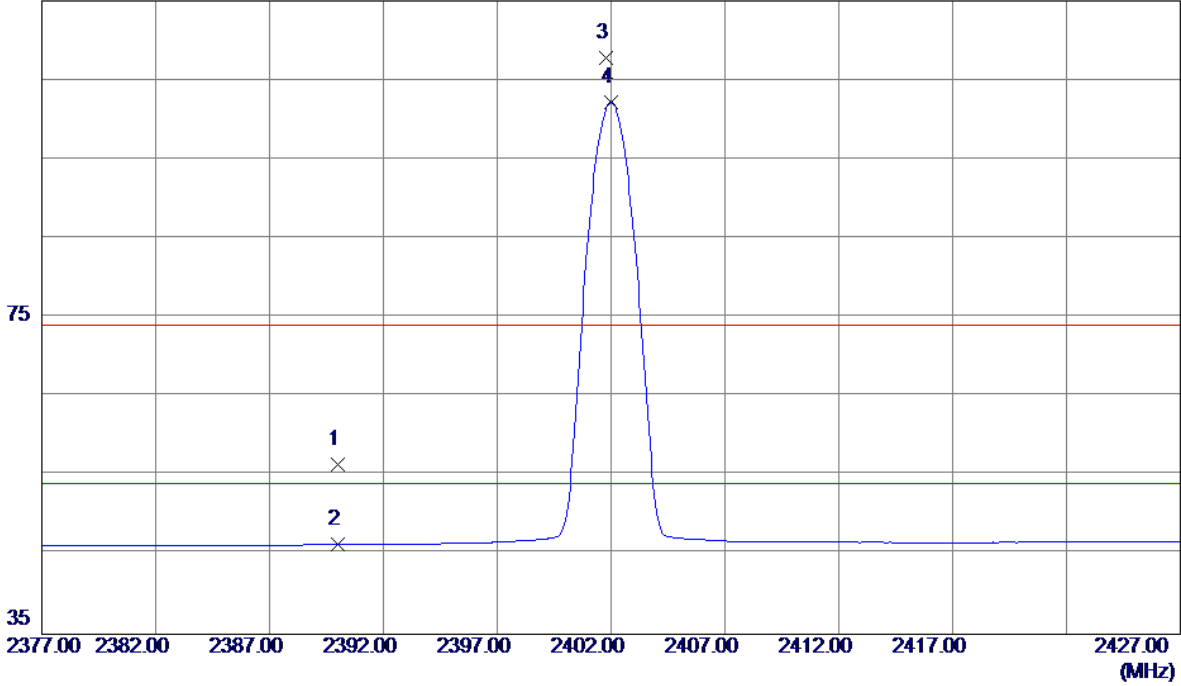


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz \_CH00\_1Mbps

**Horizontal**

115 dBuV/m

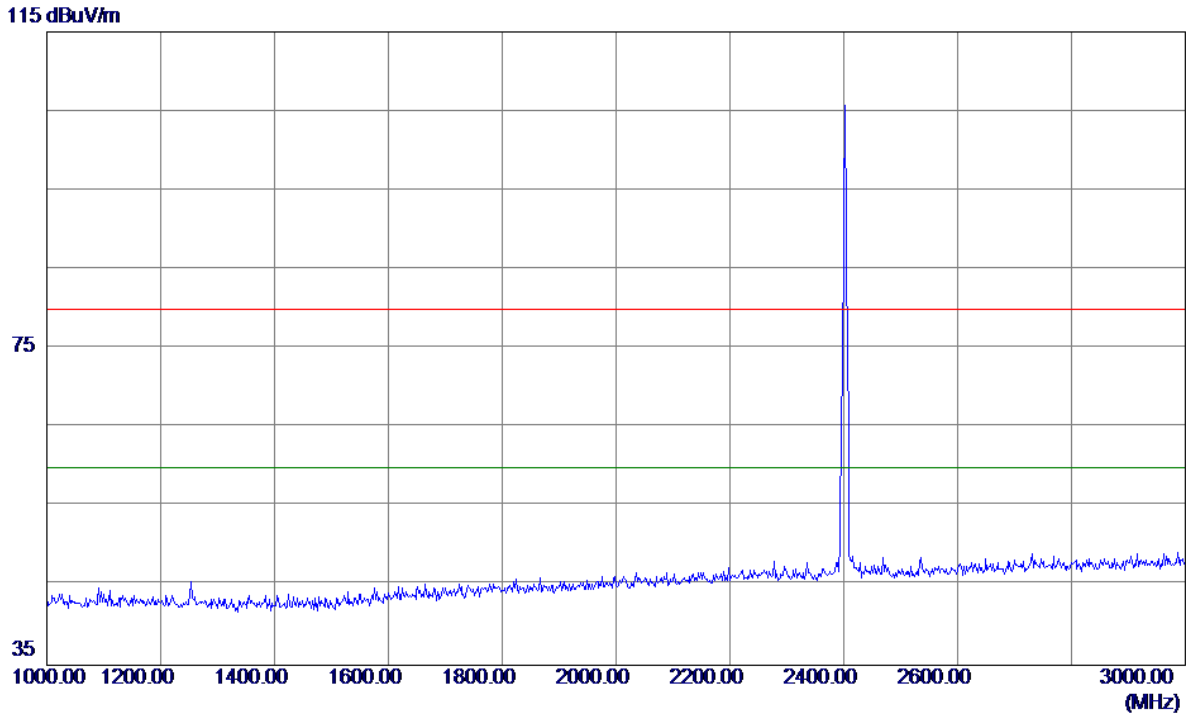


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.36	33.06	56.42	74.00	-17.58	Peak	
2	2390.0000	13.23	33.06	46.29	54.00	-7.71	AVG	
3	2401.8000	74.71	33.10	107.81	74.00	33.81	Peak	No Limit
4 *	2402.0000	69.06	33.10	102.16	54.00	48.16	AVG	No Limit



Test Mode : TX 2402MHz \_CH00\_1Mbps

**Horizontal**

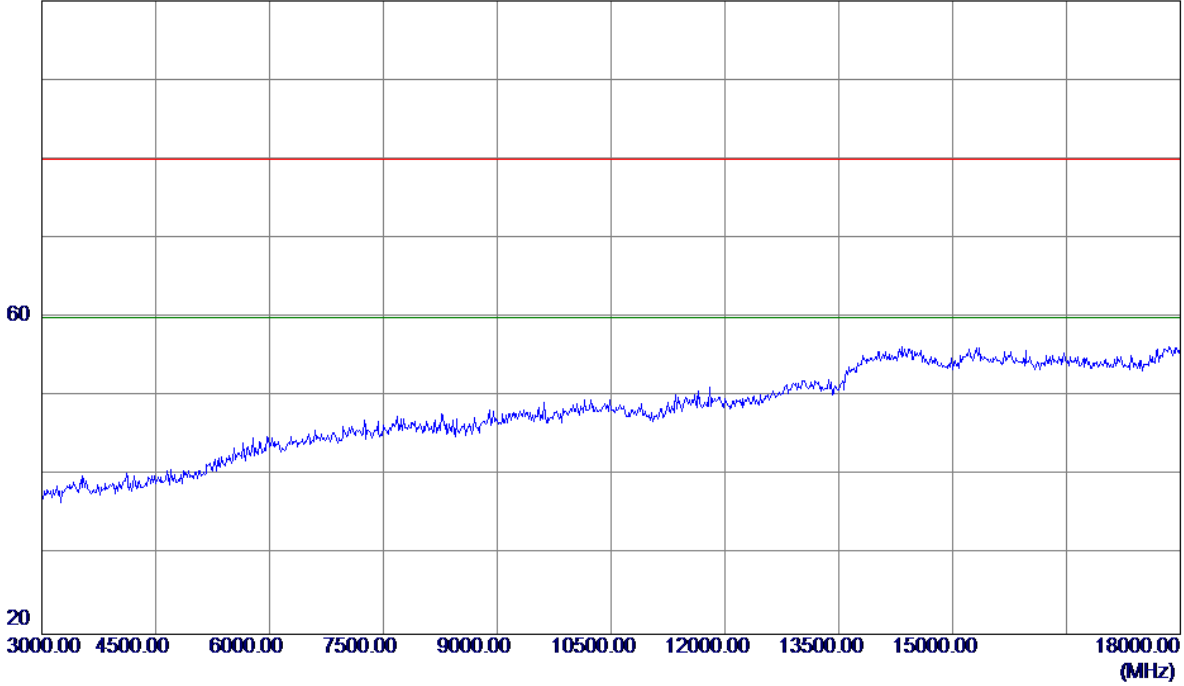


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
	2402	115		115	75	40		

Test Mode : TX 2402MHz \_CH00\_1Mbps

**Horizontal**

100 dBuV/m

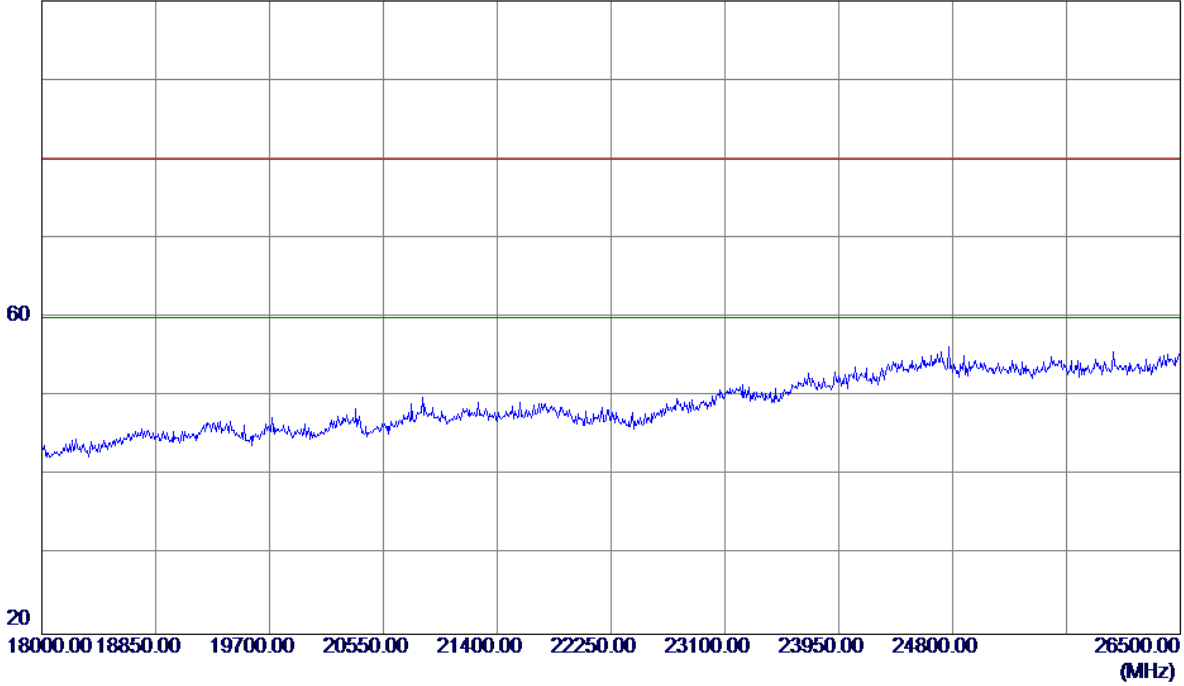


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz \_CH00\_1Mbps

**Horizontal**

100 dBuV/m

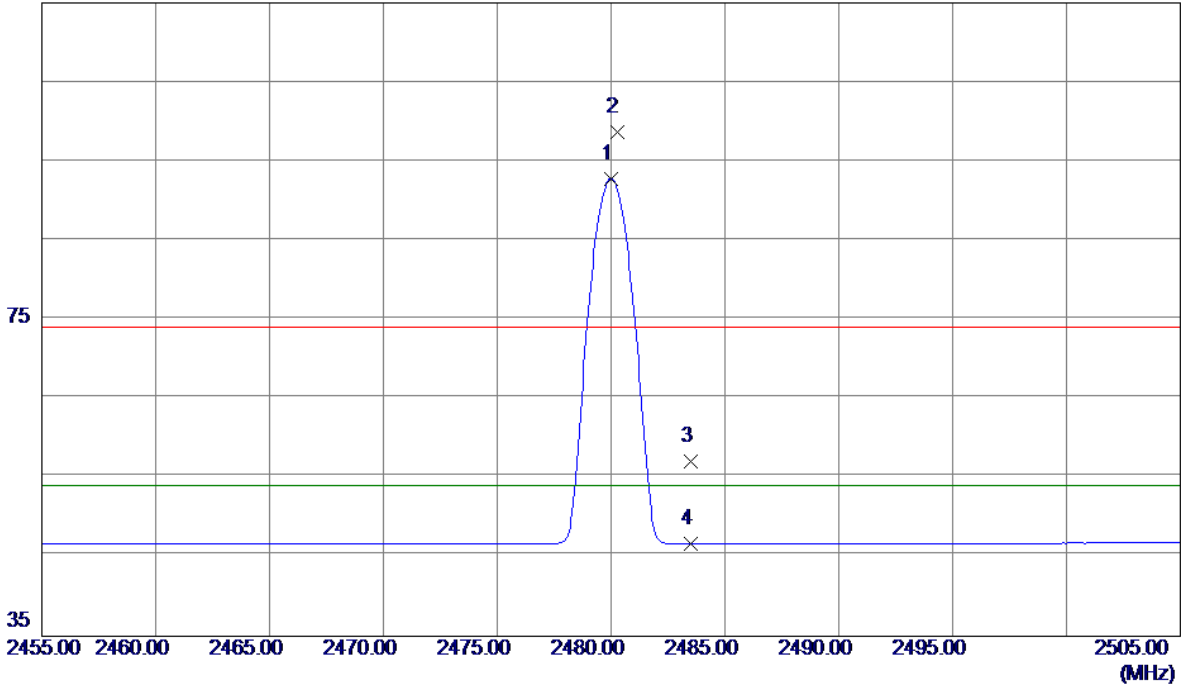


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz \_CH39\_1Mbps

**Vertical**

115 dBuV/m

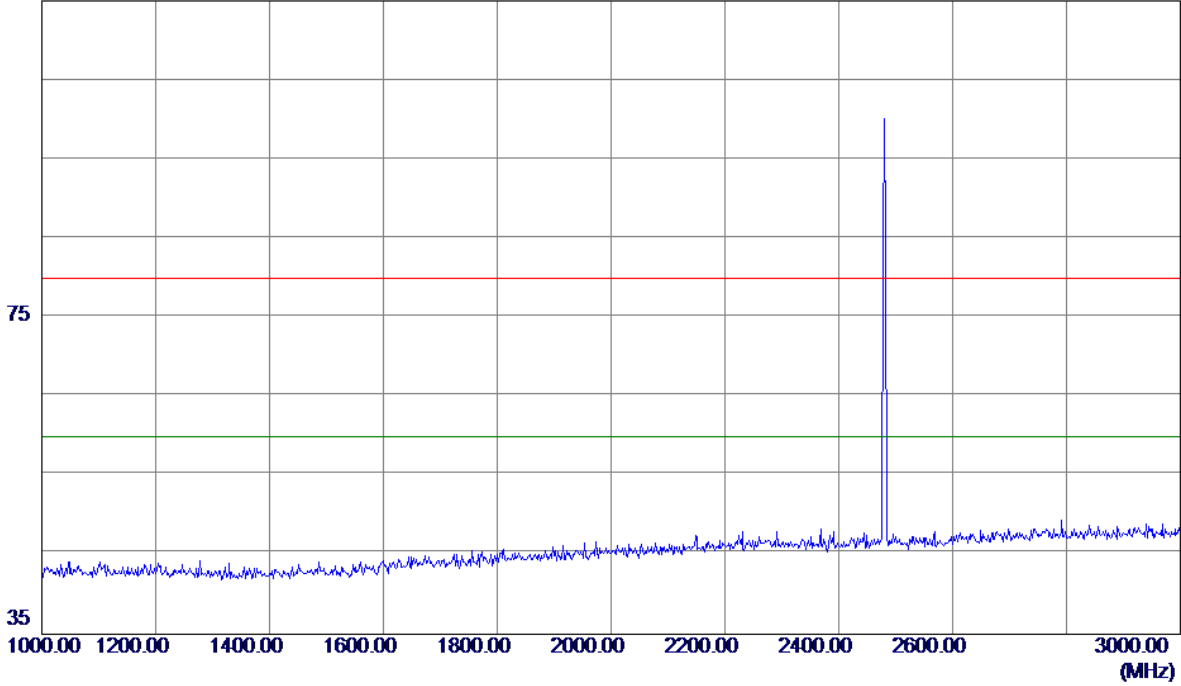


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2480.0000	59.41	33.39	92.80	54.00	38.80	AVG	No Limit
2	2480.2500	65.27	33.40	98.67	74.00	24.67	Peak	No Limit
3	2483.5000	23.74	33.41	57.15	74.00	-16.85	Peak	
4	2483.5000	13.32	33.41	46.73	54.00	-7.27	AVG	

Test Mode : TX 2480MHz \_CH39\_ 1Mbps

**Vertical**

115 dBuV/m

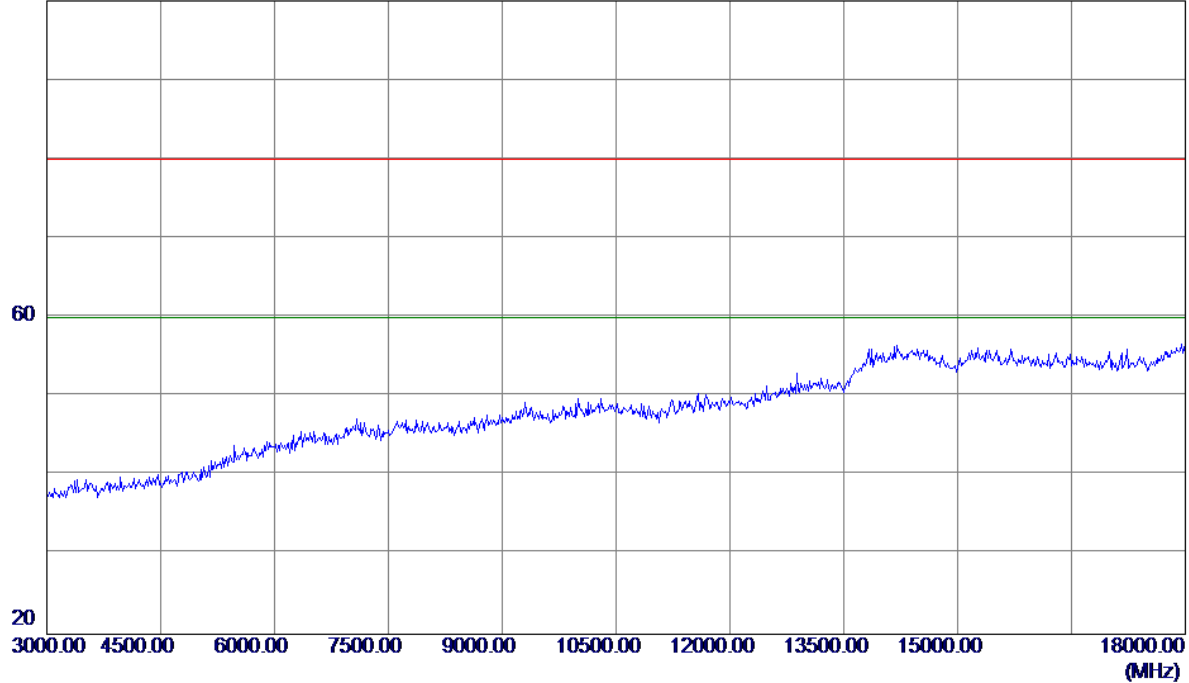


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
	2480	115		115	75	40		

Test Mode : TX 2480MHz \_CH39\_1Mbps

**Vertical**

100 dBuV/m

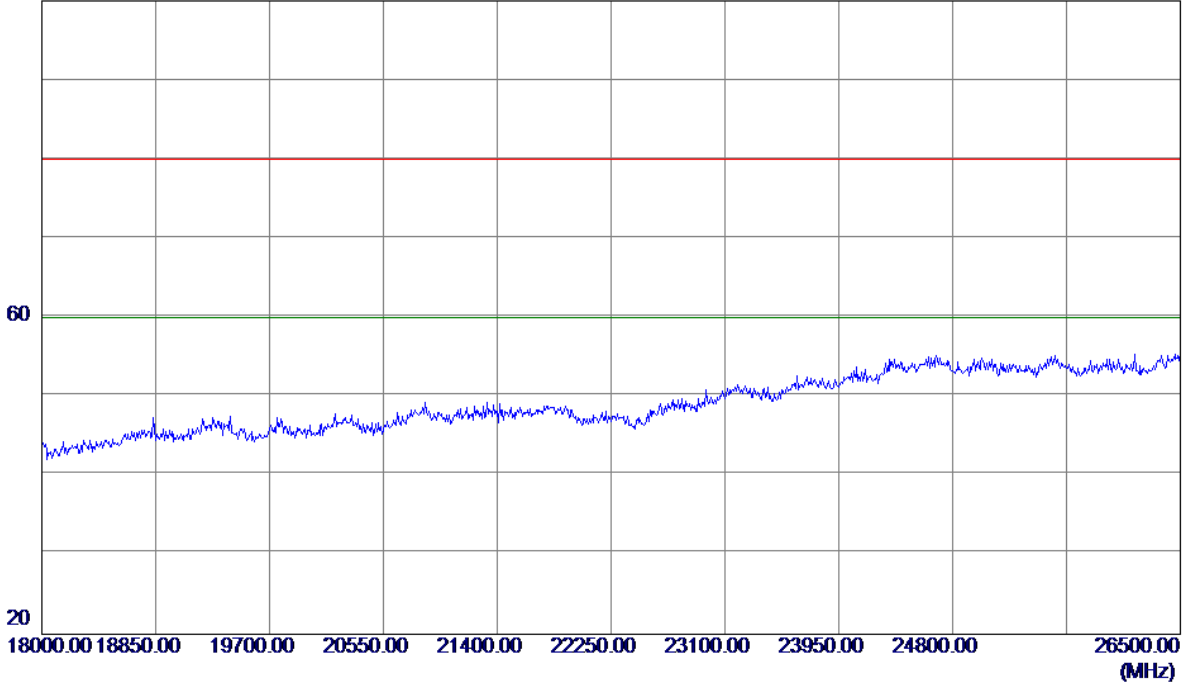


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz \_CH39\_1Mbps

**Vertical**

100 dBuV/m

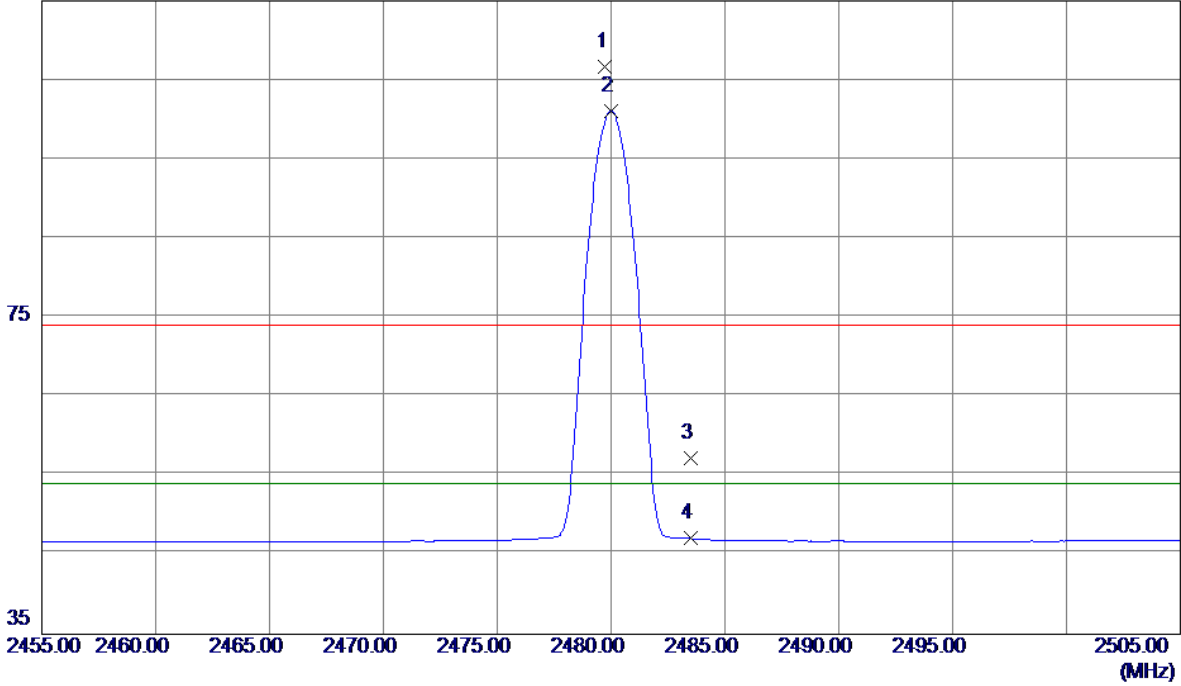


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz \_CH39\_1Mbps

**Horizontal**

115 dBuV/m



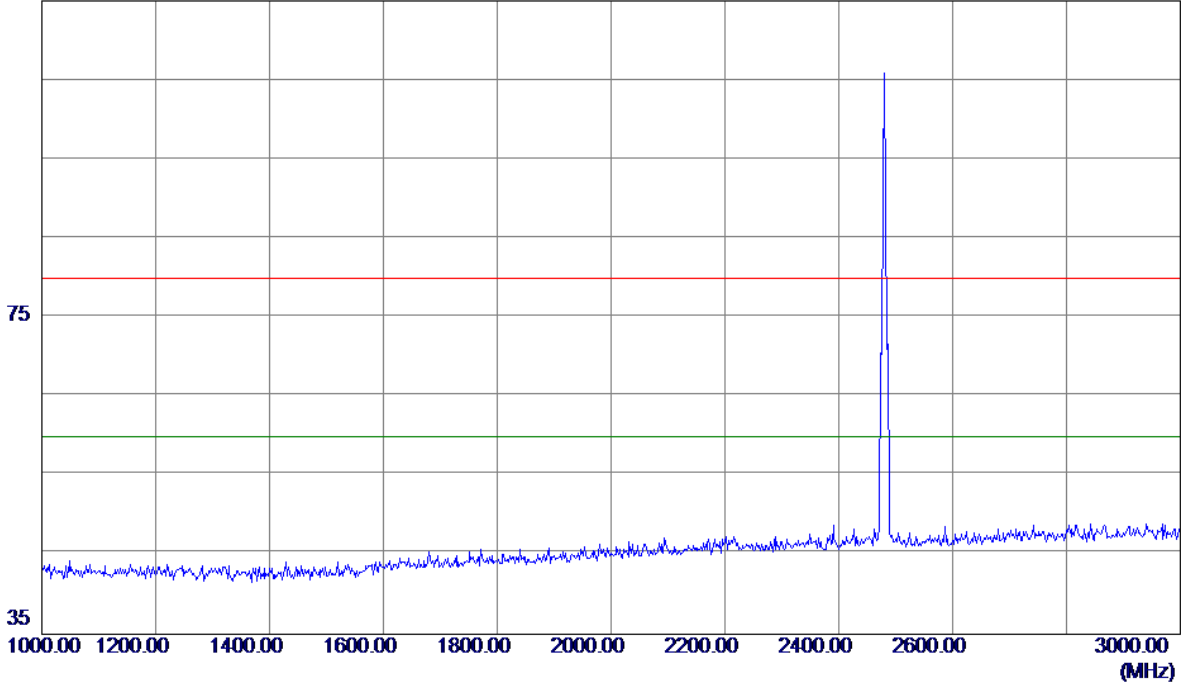
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.7500	73.31	33.39	106.70	74.00	32.70	Peak	No Limit
2 *	2480.0000	67.65	33.39	101.04	54.00	47.04	AVG	No Limit
3	2483.5000	23.81	33.41	57.22	74.00	-16.78	Peak	
4	2483.5000	13.68	33.41	47.09	54.00	-6.91	AVG	



Test Mode : TX 2480MHz \_CH39\_1Mbps

**Horizontal**

115 dBuV/m

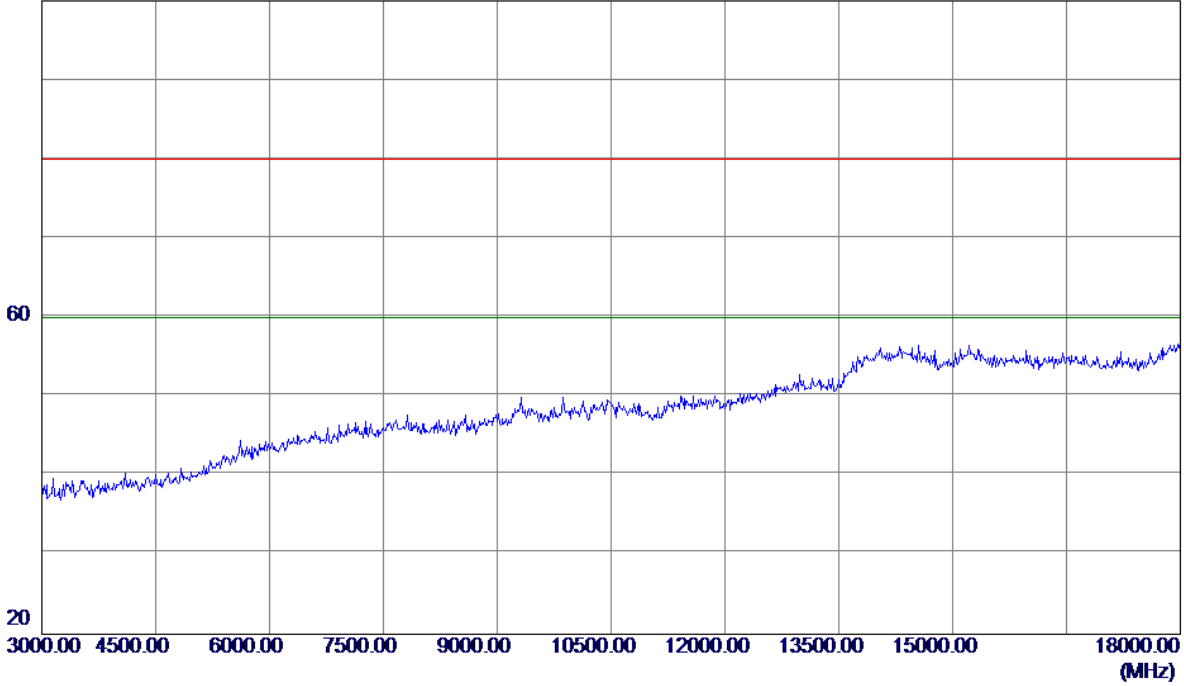


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2480MHz \_CH39\_1Mbps

**Horizontal**

100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz \_CH39\_1Mbps

**Horizontal**

100 dBuV/m



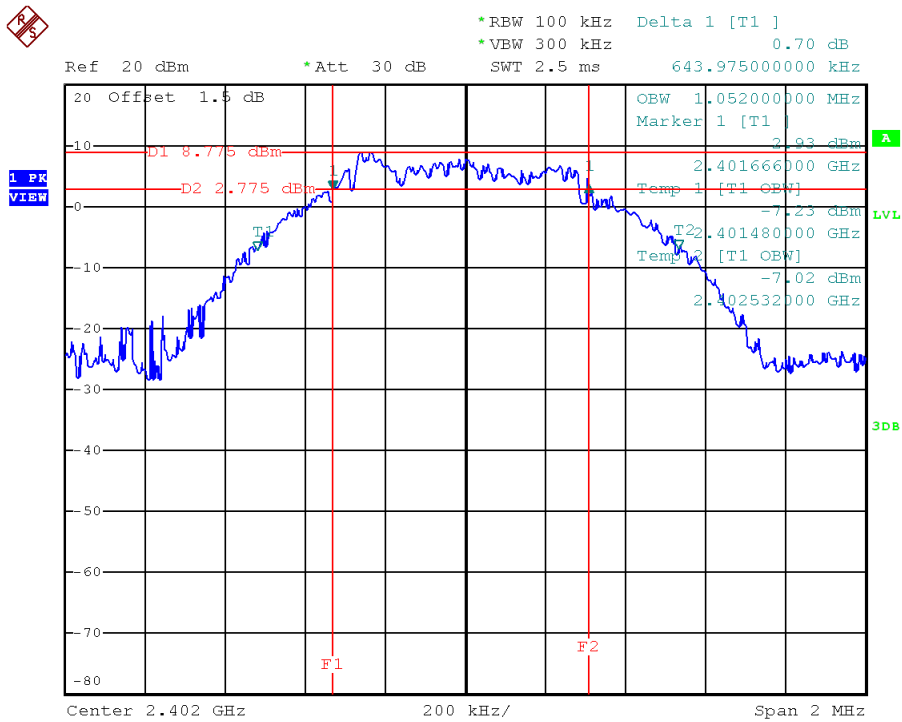
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

## APPENDIX E - BANDWIDTH

Test Mode: TX Mode

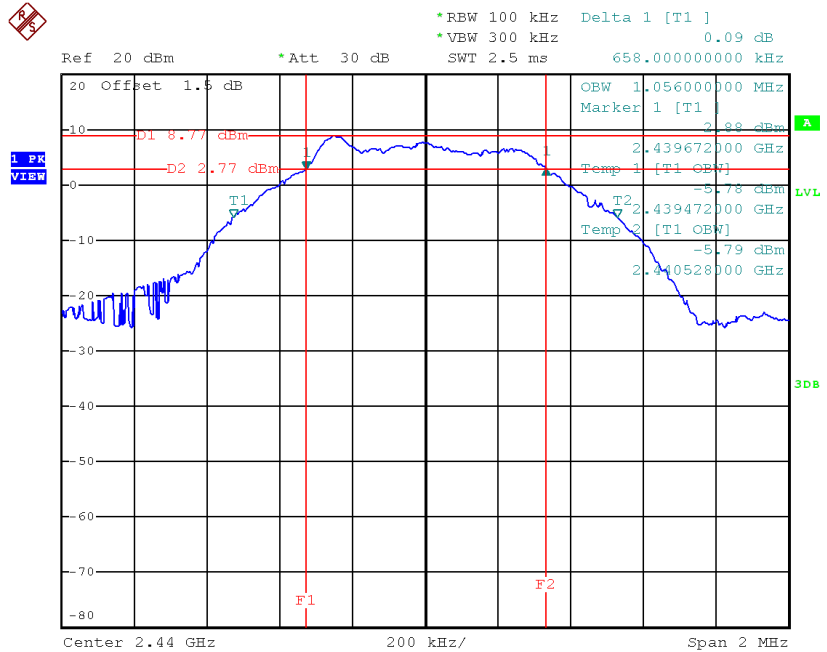
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.644	1.052	500	Pass
2440	0.658	1.056	500	Pass
2480	0.654	1.056	500	Pass

**TX CH00**



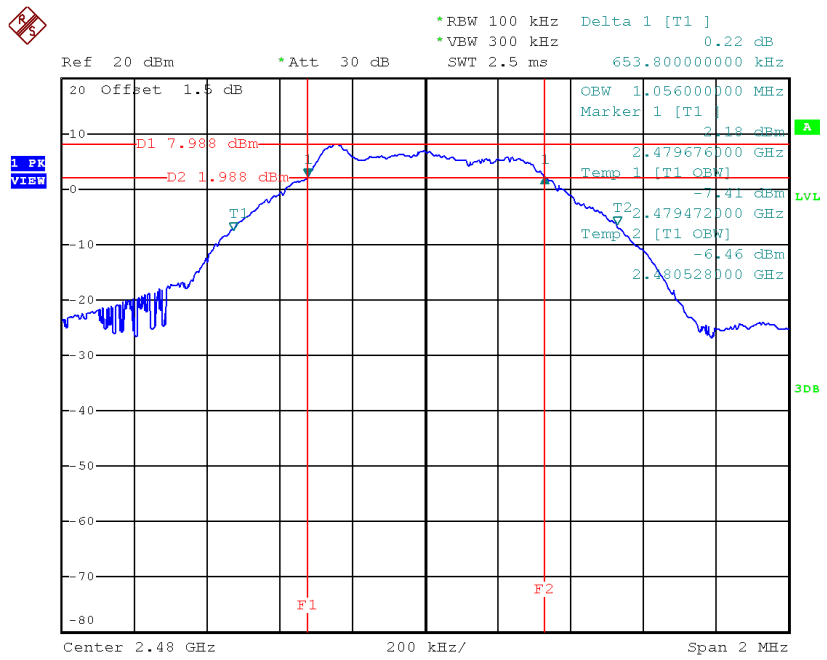
Date: 25.JUL.2017 14:24:25

**TX CH19**



Date: 25.JUL.2017 14:29:28

**TX CH39**



Date: 25.JUL.2017 14:34:32

## APPENDIX F - MAXIMUM OUTPUT POWER TEST

Test Mode :	CH00, CH19 , CH39 - 1Mbps
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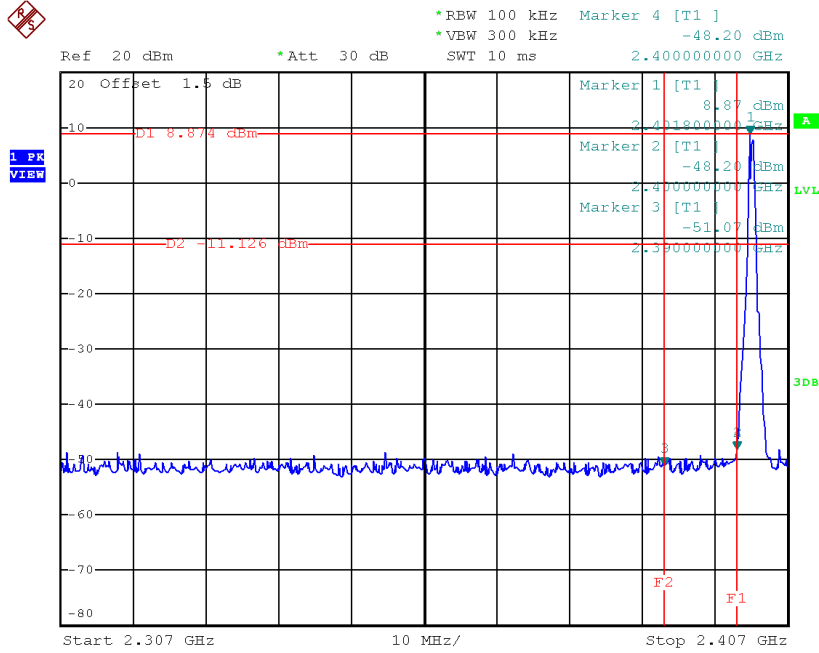
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.19	0.0083	30.00	1.00	Pass
2440	9.20	0.0083	30.00	1.00	Pass
2480	8.41	0.0069	30.00	1.00	Pass



## APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

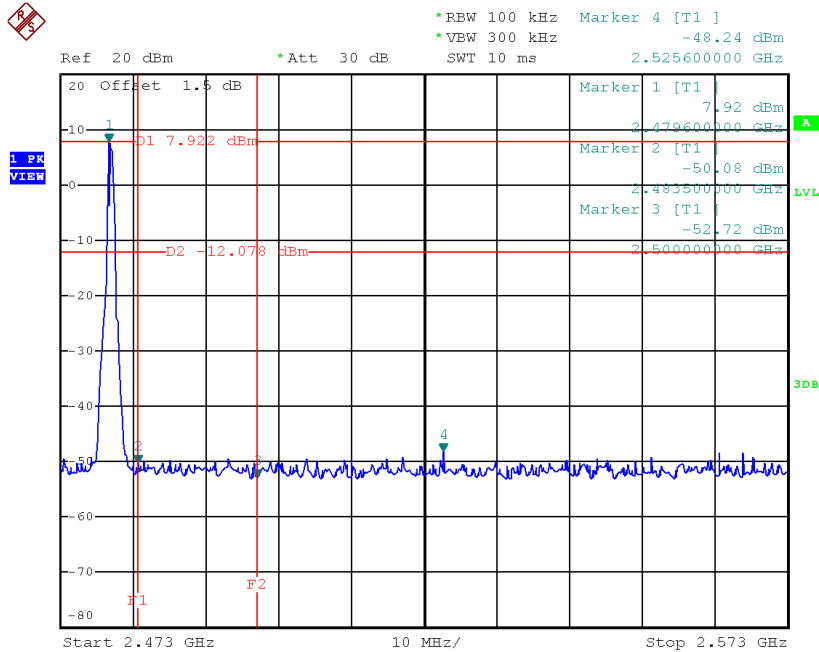
Test Mode : CH00, CH19 , CH39 - 1Mbps

**CH00 (Lower) - 1Mbps**



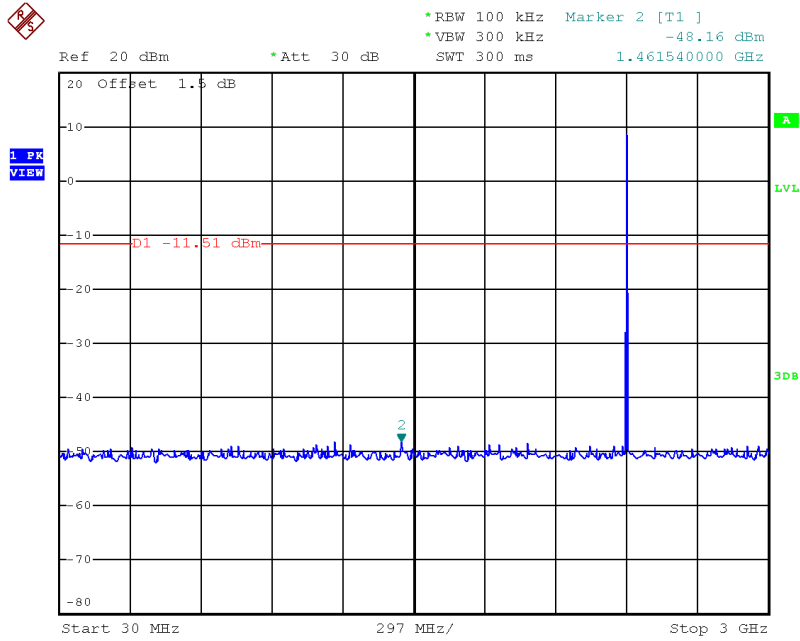
Date: 25.JUL.2017 14:26:20

**CH39 (upper) - 1Mbps**



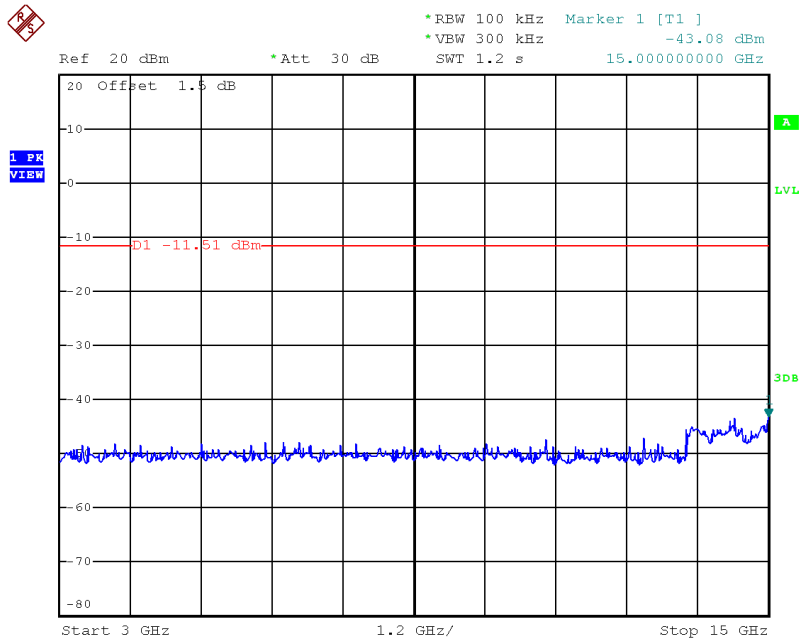
Date: 25.JUL.2017 14:35:52

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



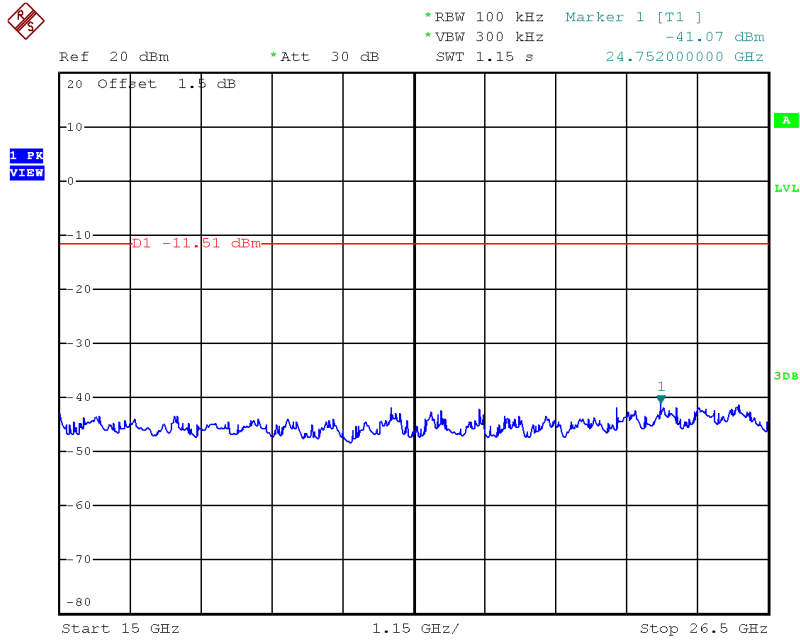
Date: 25.JUL.2017 14:26:34

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



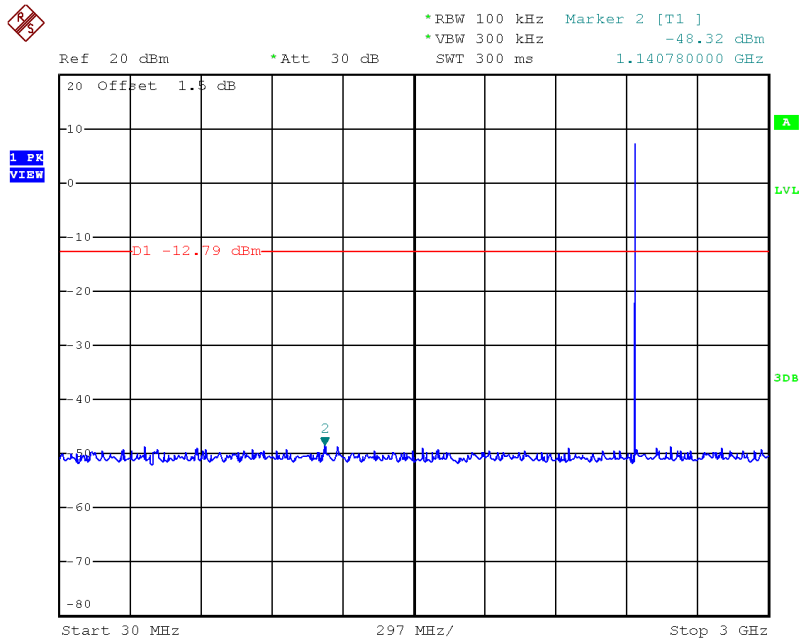
Date: 25.JUL.2017 14:26:42

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



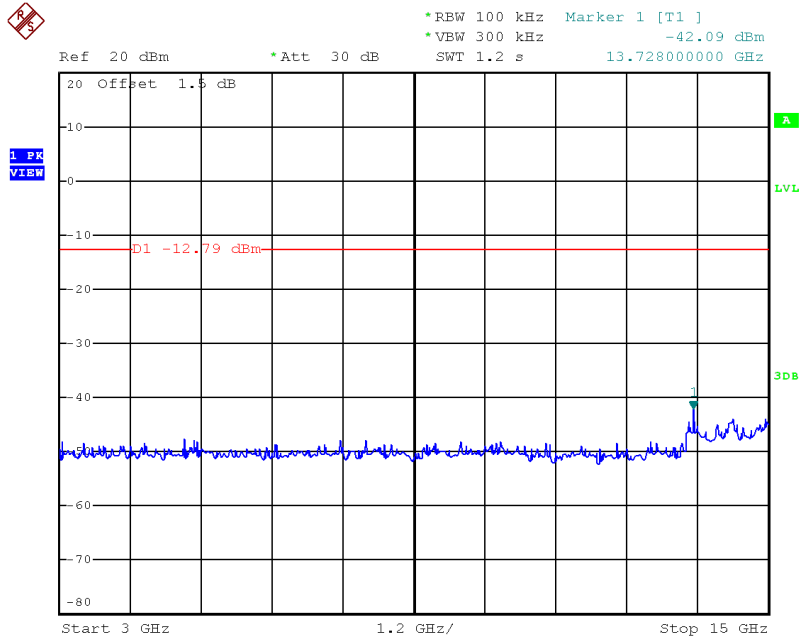
Date: 25.JUL.2017 14:26:50

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



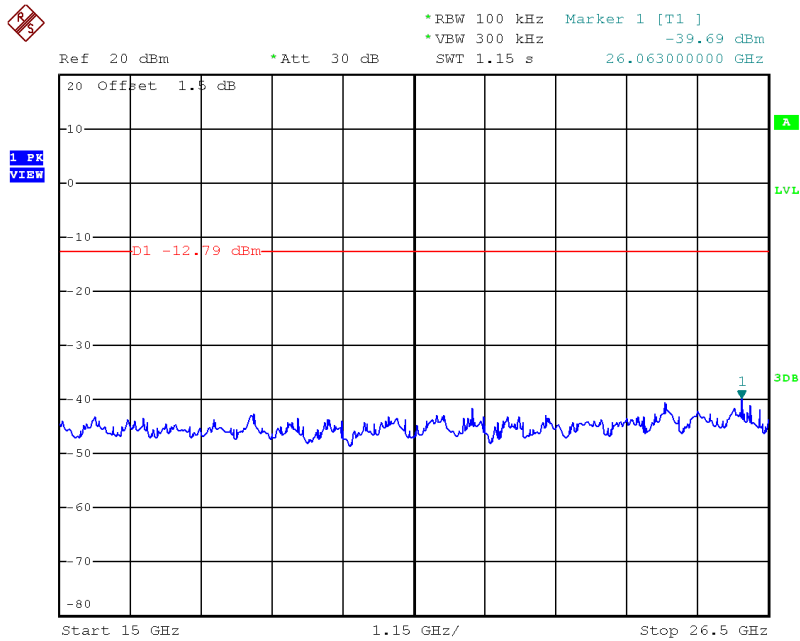
Date: 25.JUL.2017 14:29:42

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



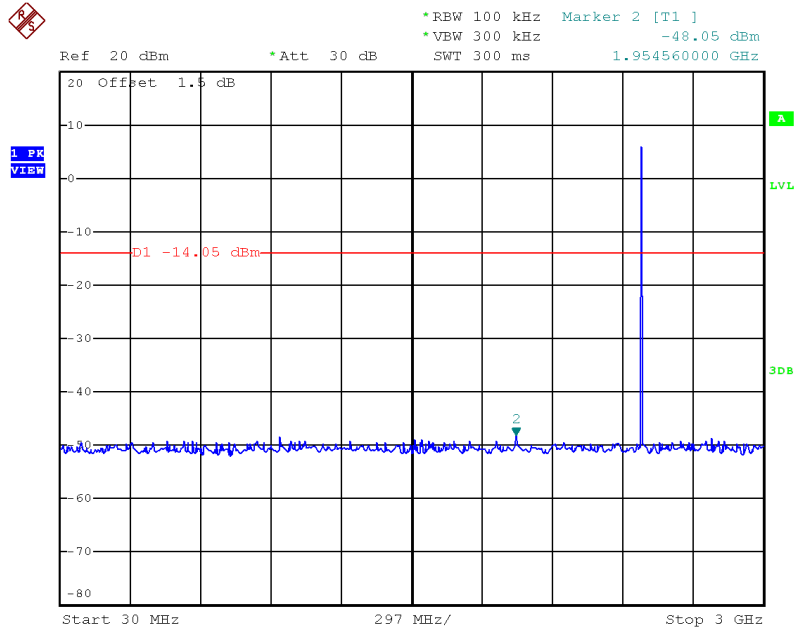
Date: 25.JUL.2017 14:29:50

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



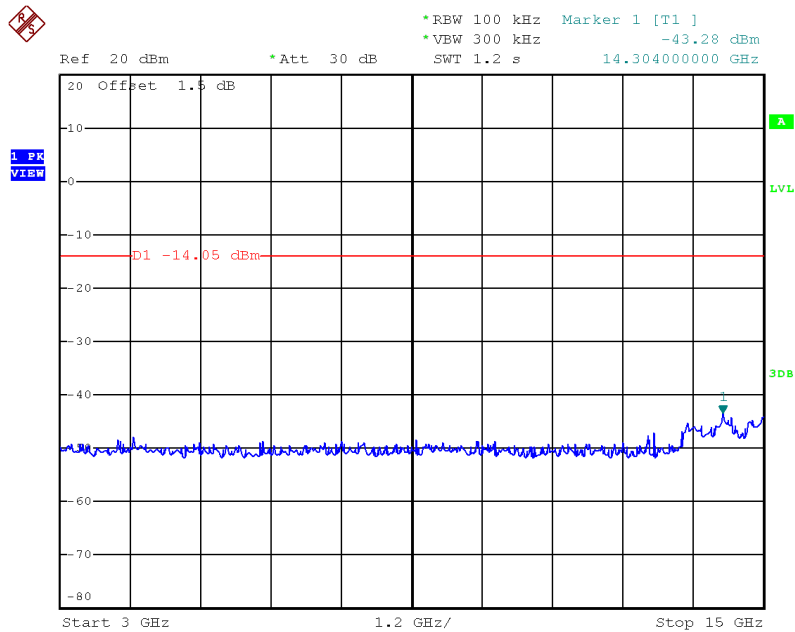
Date: 25.JUL.2017 14:29:58

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



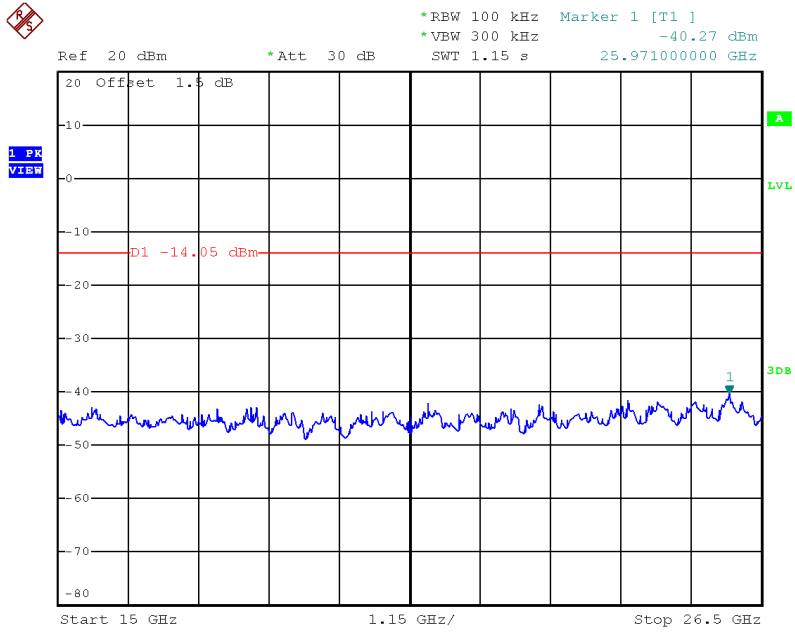
Date: 25.JUL.2017 14:36:06

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



Date: 25.JUL.2017 14:36:14

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



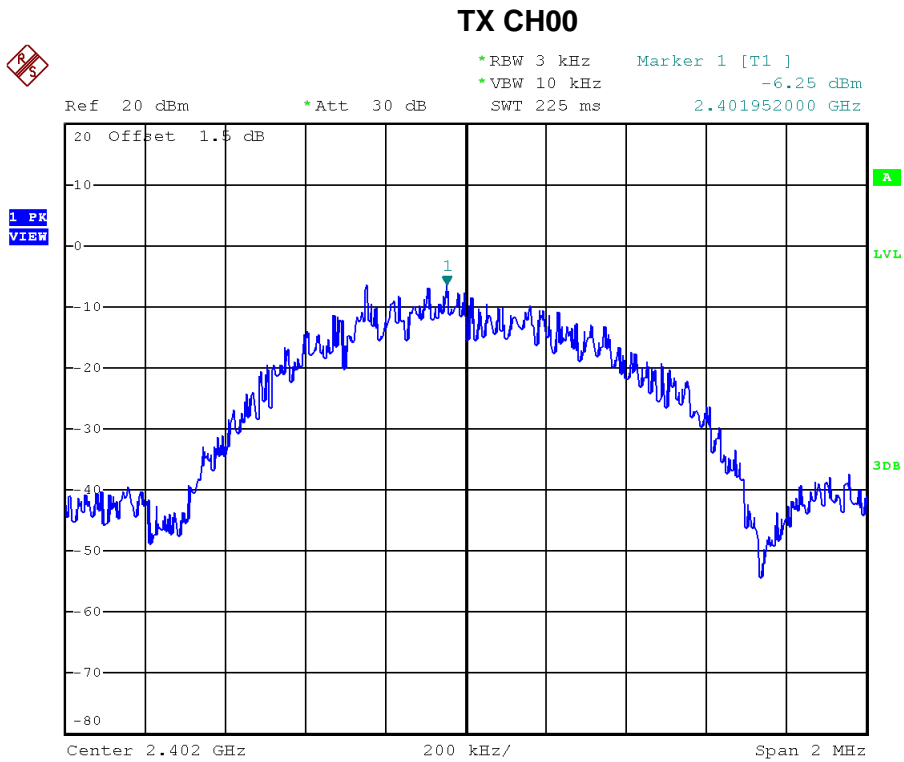
Date: 25.JUL.2017 14:36:22

## APPENDIX H - POWER SPECTRAL DENSITY TEST



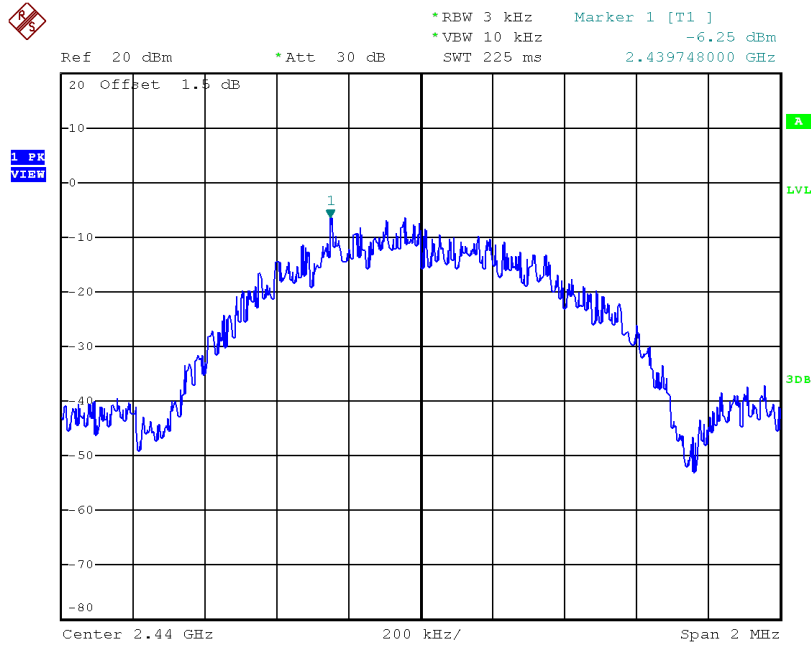
Test Mode: CH00, CH19 , CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-6.250	0.237	8.00	Pass
2440	-6.250	0.237	8.00	Pass
2480	-7.120	0.194	8.00	Pass



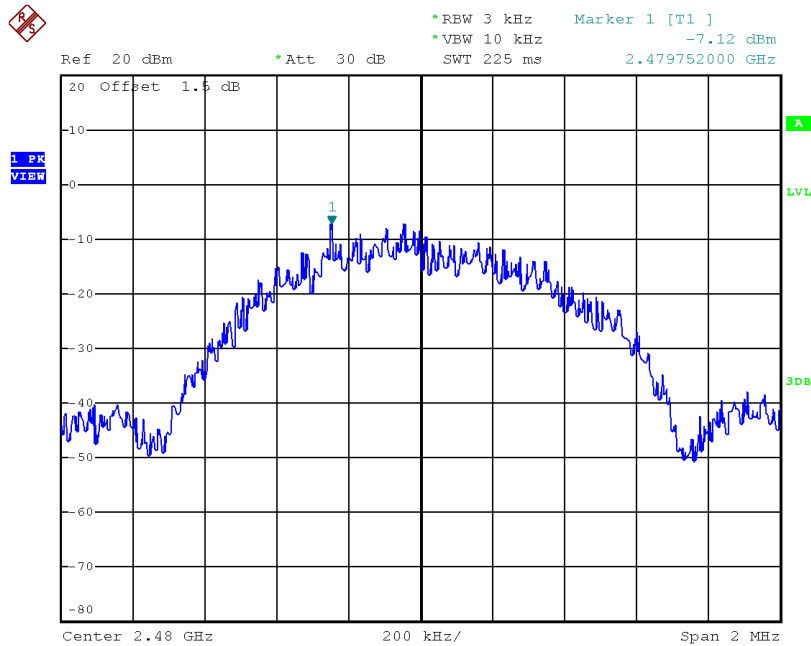
Date: 25.JUL.2017 14:28:49

### TX CH19



Date: 25.JUL.2017 14:33:33

### TX CH39



Date: 25.JUL.2017 14:37:34