



FCC Radio Test Report

FCC ID: V7TF1200

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

Project No. : 1406C099
Equipment : Wireless AC1200 Dual-band Router
Model Name : F1200
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Tested by: BTL Inc. EMC Laboratory

Date of Receipt: Jun. 16, 2014

Date of Test: Jun. 16, 2014 ~ Jun. 27, 2014

Issued Date: Jun. 30, 2014

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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Limitation

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



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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FCCP-1-1406C099	Original Issue.	Jun. 30, 2014



1. CERTIFICATION

Equipment : Wireless AC1200 Dual-band Router
Brand Name : Tenda
Model Name : F1200
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Manufacturer : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor,Tower E3,No.1001,Zhongshanyuan Road,Nanshan District,
Shenzhen,China.518052
Date of Test : Jun. 16, 2014 ~ Jun. 27, 2014
Test Item : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.4-2009

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1406C099) 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
	FCC		Remark
15.207		Conducted Emission	PASS
15.247(d)		Antenna conducted Spurious Emission	PASS
15.247(a)(2)		6dB Bandwidth	PASS
15.247(b)(3)		Peak Output Power	PASS
15.247(e)		Power Spectral Density	PASS
15.203		Antenna Requirement	PASS
15.209/15.205		Transmitter Radiated Emissions	PASS

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

(2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02
(Measurement Guidelines of DTS)



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792
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 reported uncertainty of measurement $y \pm U$, where expended 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)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless AC1200 Dual-band Router	
Brand Name	Tenda	
Model Name	F1200	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b: DSSS 802.11g:OFDM 802.11n: OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 24.50dBm 802.11g: 21.80dBm 802.11n(20MHz):26.06dBm 802.11n(40MHz): 23.41dBm
Power Source	DC Voltage supplied from AC/DC adapter. Manufacturer: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO.LTD Model: TEA12U-12100	
Power Rating	I/P: AC 100-240V~ 50/60Hz 0.3A O/P: DC 12V/1 A	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

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



2. Channel List:

CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
0	Tenda®	Q5115	Internal	N/A	3.09
1	Tenda®	Q5115	Internal	N/A	3.09

The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = G_{ANT} , that is Directional gain=3.09.

4.

Operating Mode TX Mode	1TX	2TX
802.11b	V (ANT 0 or ANT 1)	-
802.11g	V (ANT 0 or ANT 1)	-
802.11n(20MHz)	-	V (ANT 0 + ANT 1)
802.11n(40MHz)	-	V (ANT 0 + ANT 1)

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX MODE

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 5	TX MODE

For Radiated Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Note:

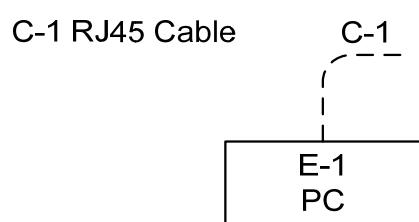
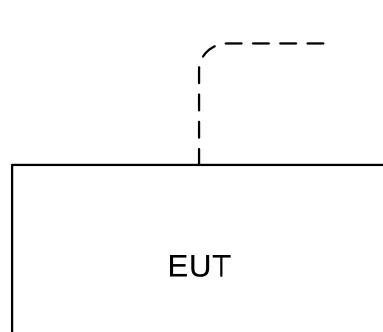
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
- For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.



3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	Mtool 2_0.0.6.exe		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	68	67	67
IEEE 802.11g OFDM	40	56	45
IEEE 802.11n (20MHz)	40	58	44
Frequency	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	32	45	37

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.	Note
E-1	PC	Dell 745	DCSM	DOC	G7K832X	-

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	-



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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

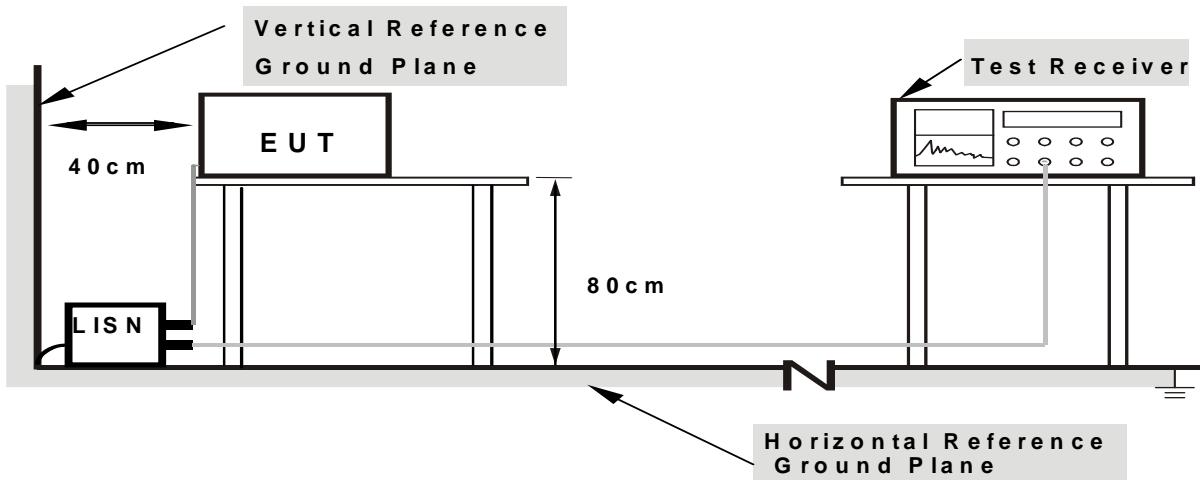
4.1.2 TEST PROCEDURE

- 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 cm 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.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. 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).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

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

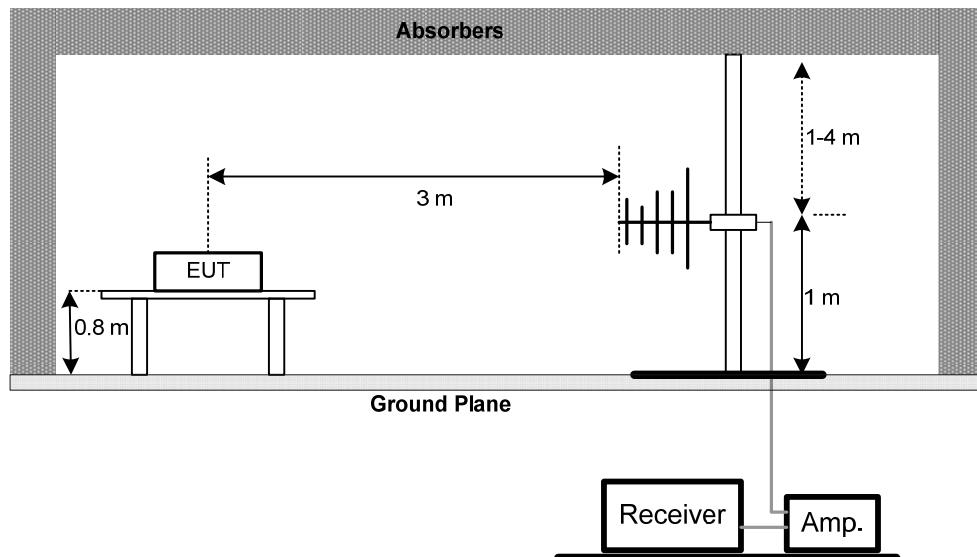
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-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 0.8 m; 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. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

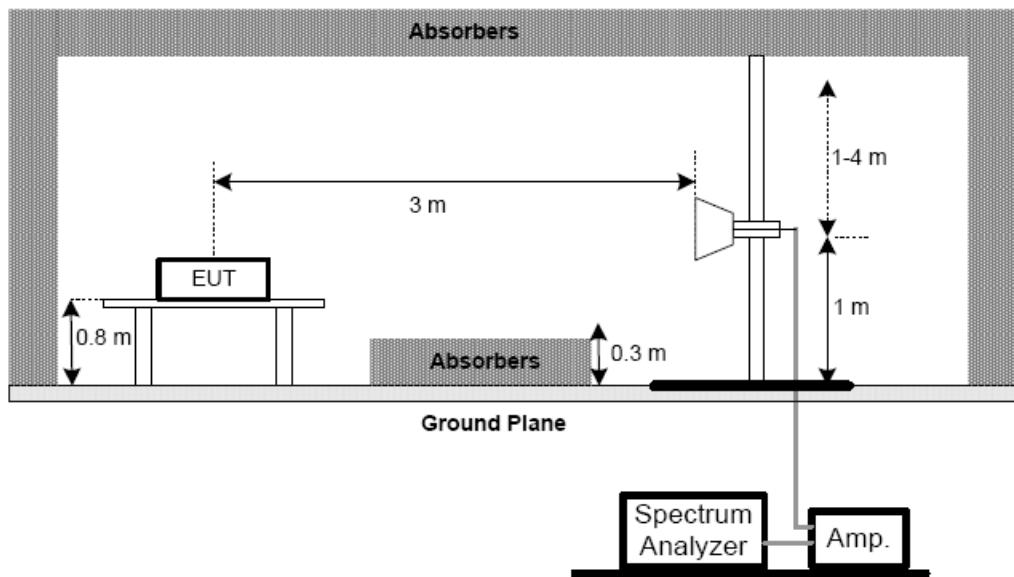
No deviation

4.2.4 TEST SETUP

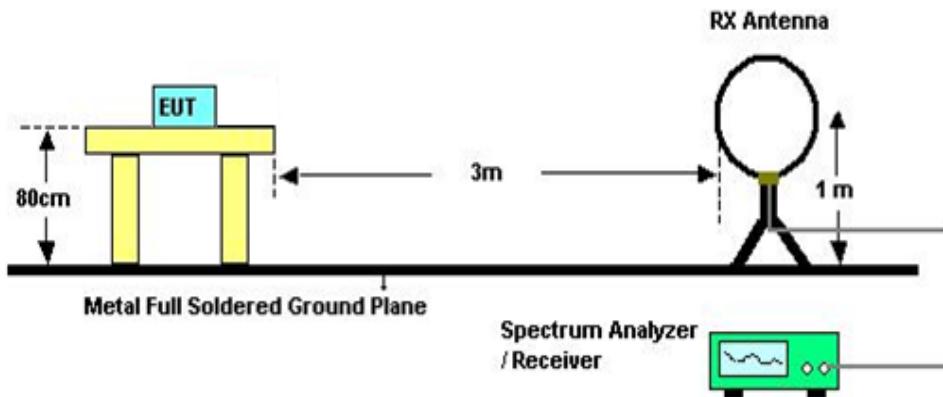
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% 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 (dB_{UV}) + distance extrapolation factor.

4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

5. BANDWIDTH TEST

5.1 Applied procedures

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

5.1.1 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 = 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 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% 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

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r01.

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 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% 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 intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

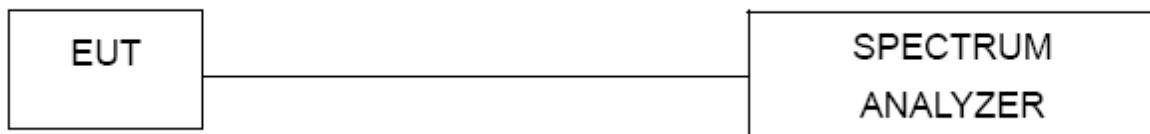
7.1.1 TEST PROCEDURE

- 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 = Auto.

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 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% 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

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=3KHz, VBW=10KHz, 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 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% 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	LISN	EMCO	3816/2	00052765	Mar. 29, 2015
2	LISN	R&S	ENV216	101447	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Bone Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Aug. 24, 2014
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 02, 2014
5	Controller	CT	SC100	N/A	N/A
6	Horn Antenna	ETS	3115	00075789	Mar. 29, 2015
7	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
8	Receiver	AGILENT	N9038A	MY52130039	Aug. 24, 2014
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
10	Controller	CT	SC100	N/A	N/A
11	Horn Antenna	EMCO	3115	9605-4803	May.25,2015
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.02,2015
13	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.11,2014

**6dB Bandwidth Measurement**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

Peak Output Power Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr. 24, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr. 24, 2015

Antenna Conducted Spurious Emission Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

Power Spectral Density Measurement

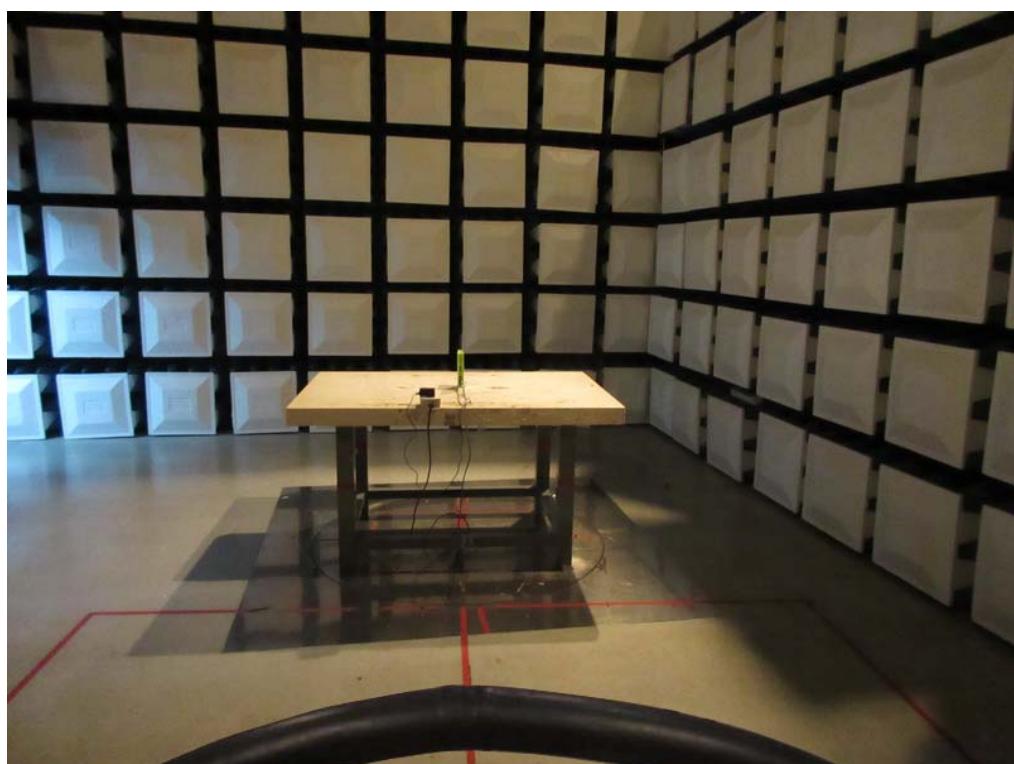
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

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

All calibration period of equipment list is one year.

10. EUT TEST PHOTO**Conducted Measurement Photos**

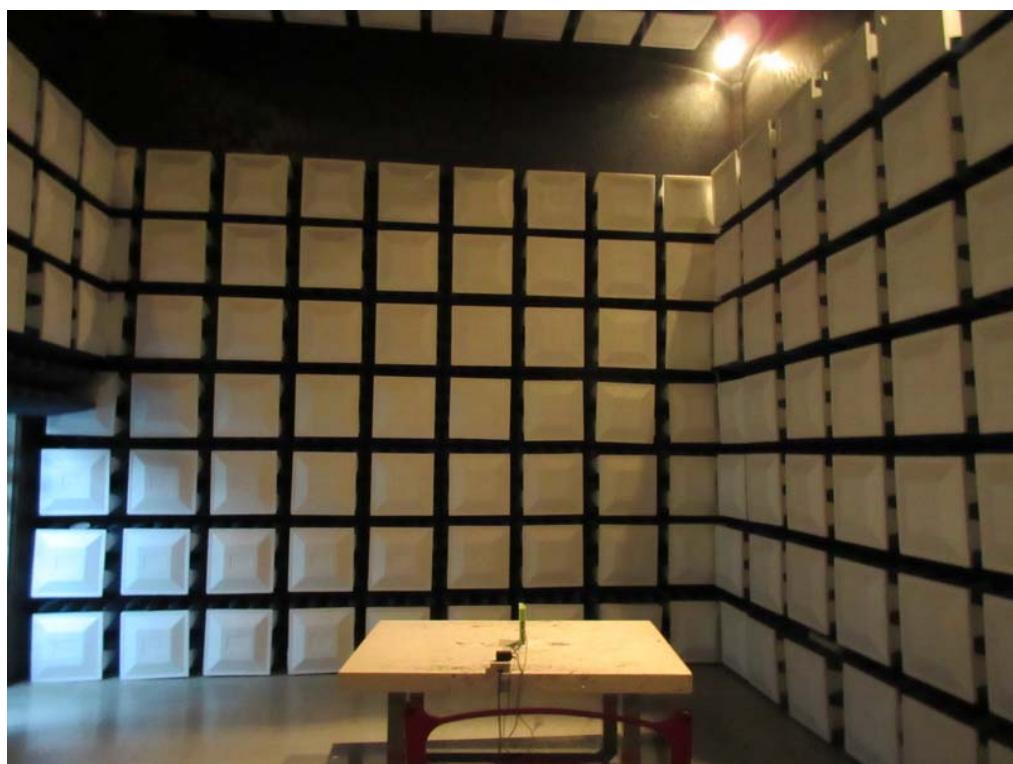
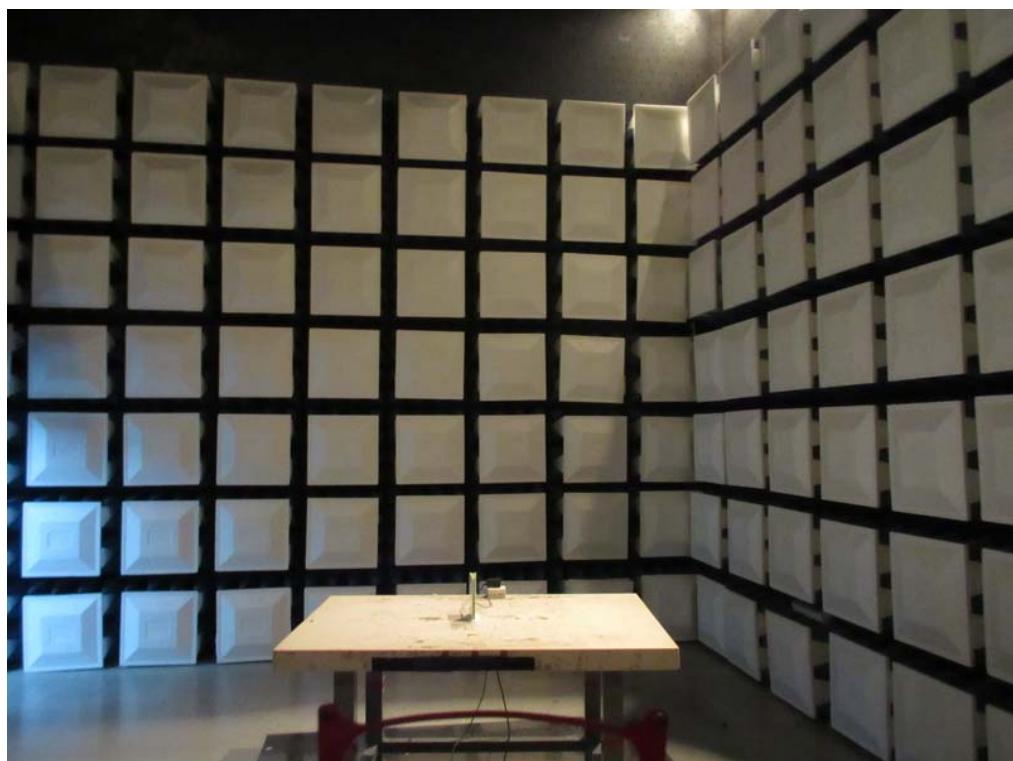
**Radiated Measurement Photos
9KHz to 30MHz**



**Radiated Measurement Photos
30MHz to 1000MHz**



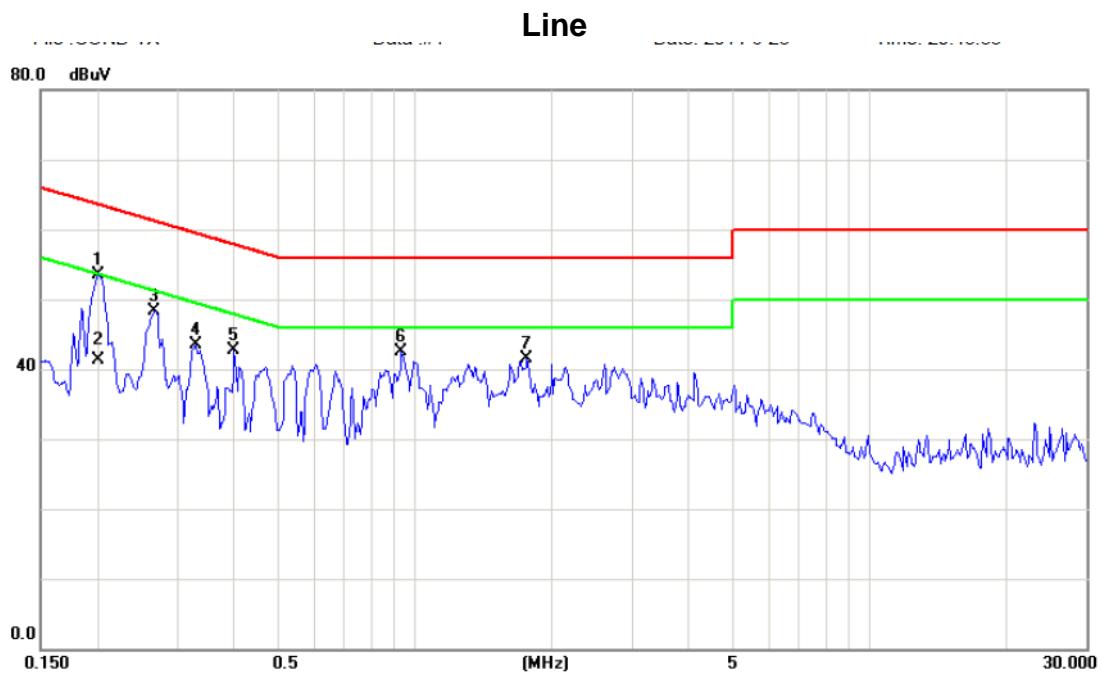
**Radiated Measurement Photos
Above 1000MHz**





ATTACHMENT A - CONDUCTED EMISSION

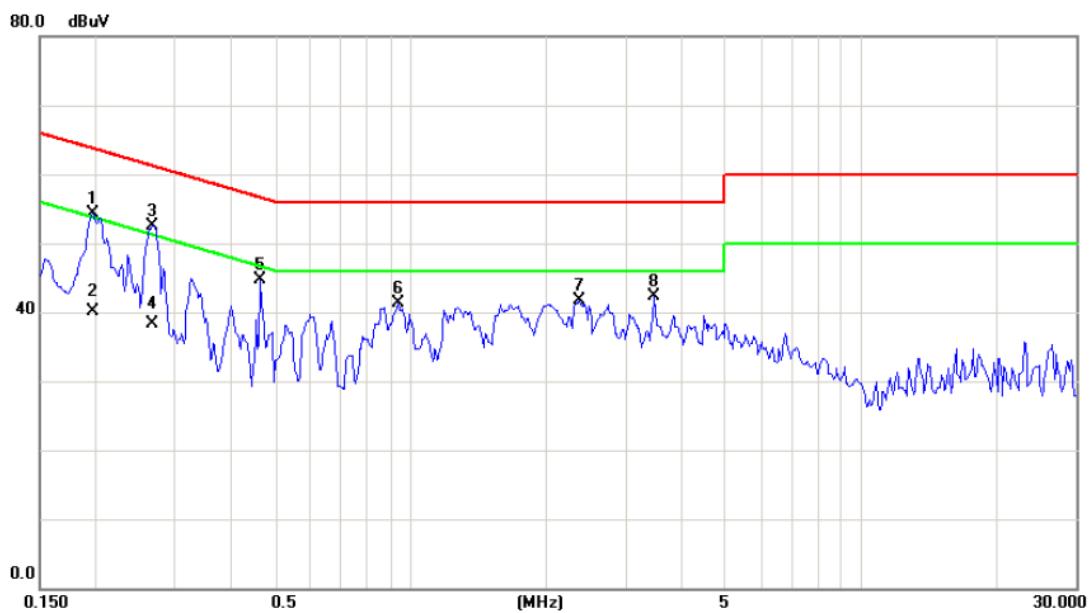
Test Mode : TX MODE



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	*	0.2008	43.99	9.54	53.53	63.58	-10.05	peak	
2		0.2008	31.70	9.54	41.24	53.58	-12.34	Avg	
3		0.2672	38.65	9.58	48.23	61.20	-12.97	peak	
4		0.3297	33.90	9.61	43.51	59.46	-15.95	peak	
5		0.4000	33.15	9.65	42.80	57.85	-15.05	peak	
6		0.9352	32.85	9.68	42.53	56.00	-13.47	peak	
7		1.7672	31.72	9.70	41.42	56.00	-14.58	peak	

Note : The test result has included the cable loss.

Test Mode : TX MODE

Neutral

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV	dB			
1		0.1970	44.65	9.61	54.26	63.74	-9.48	peak	
2		0.1970	30.50	9.61	40.11	53.74	-13.63	AVG	
3	*	0.2672	42.87	9.62	52.49	61.20	-8.71	peak	
4		0.2672	28.70	9.62	38.32	51.20	-12.88	AVG	
5		0.4625	35.00	9.64	44.64	56.65	-12.01	peak	
6		0.9430	31.60	9.67	41.27	56.00	-14.73	peak	
7		2.3687	31.86	9.76	41.62	56.00	-14.38	peak	
8		3.4688	32.57	9.81	42.38	56.00	-13.62	peak	

Note : The test result has included the cable loss.



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



Test Mode:	TX Mode 2412MHz
------------	-----------------

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0094	0°	68.35	24.30	92.65	128.12	-35.47	AVG
0.0095	0°	72.35	24.30	96.65	148.12	-51.47	PEAK
0.0136	0°	70.35	24.30	94.65	124.93	-30.28	AVG
0.0137	0°	79.35	24.30	103.65	144.93	-41.28	PEAK
0.0243	0°	56.36	24.03	80.39	119.89	-39.50	AVG
0.0245	0°	60.12	24.03	84.15	139.89	-55.74	PEAK
0.0326	0°	61.36	23.50	84.86	117.34	-32.48	AVG
0.0328	0°	65.38	23.50	88.88	137.34	-48.46	PEAK
0.5670	0°	18.72	20.01	38.73	72.53	-33.80	QP
1.7535	0°	18.95	19.52	38.47	69.54	-31.07	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0094	90°	76.35	24.30	100.65	128.19	-27.54	AVG
0.0094	90°	82.36	24.30	106.66	148.19	-41.53	PEAK
0.0234	90°	56.38	24.08	80.46	120.22	-39.76	AVG
0.0237	90°	59.35	24.08	83.43	140.22	-56.79	PEAK
0.0315	90°	57.35	23.57	80.92	117.64	-36.72	AVG
0.0318	90°	58.35	23.57	81.92	137.64	-55.72	PEAK
0.0426	90°	59.35	22.87	82.22	115.02	-32.80	AVG
0.0429	90°	63.35	22.87	86.22	135.02	-48.80	PEAK
0.4914	90°	17.45	19.82	37.27	73.78	-36.50	QP
1.7157	90°	18.63	19.53	38.16	69.54	-31.38	QP

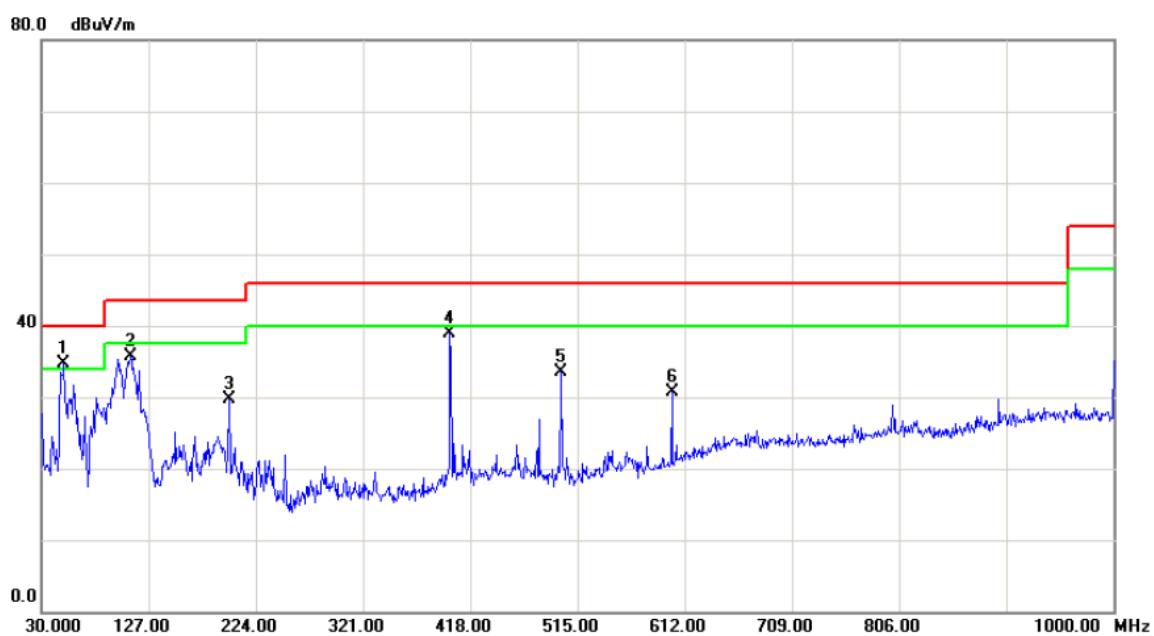
Remark:

- (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.



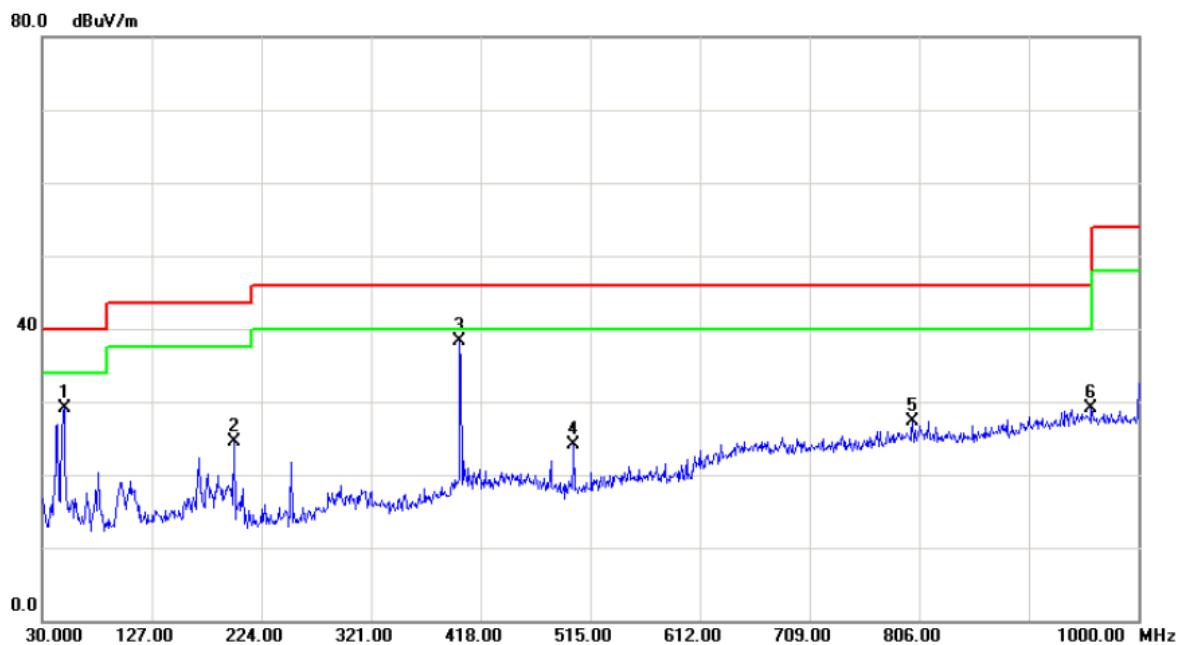
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX B MODE CHANNEL 01

Vertical

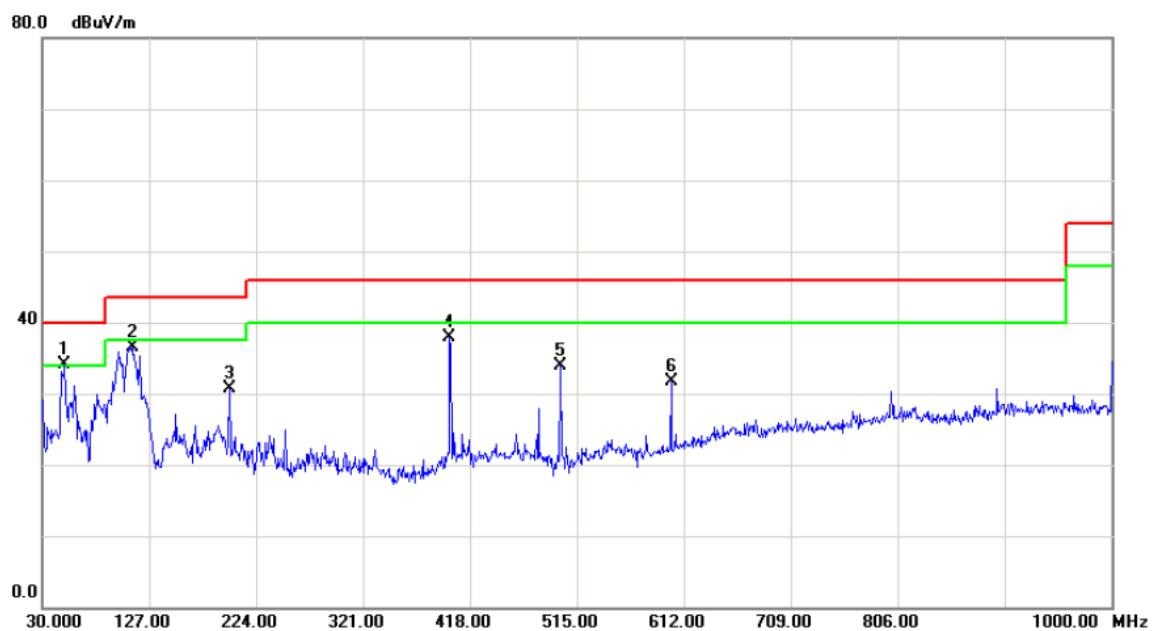
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	50.3700	48.97	-14.29	34.68	40.00	-5.32	peak	
2		110.5100	51.00	-15.35	35.65	43.50	-7.85	peak	
3		199.7500	44.88	-15.13	29.75	43.50	-13.75	peak	
4		399.5700	48.67	-9.70	38.97	46.00	-7.03	peak	
5		500.4500	44.00	-10.52	33.48	46.00	-12.52	peak	
6		600.3600	38.80	-8.08	30.72	46.00	-15.28	peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

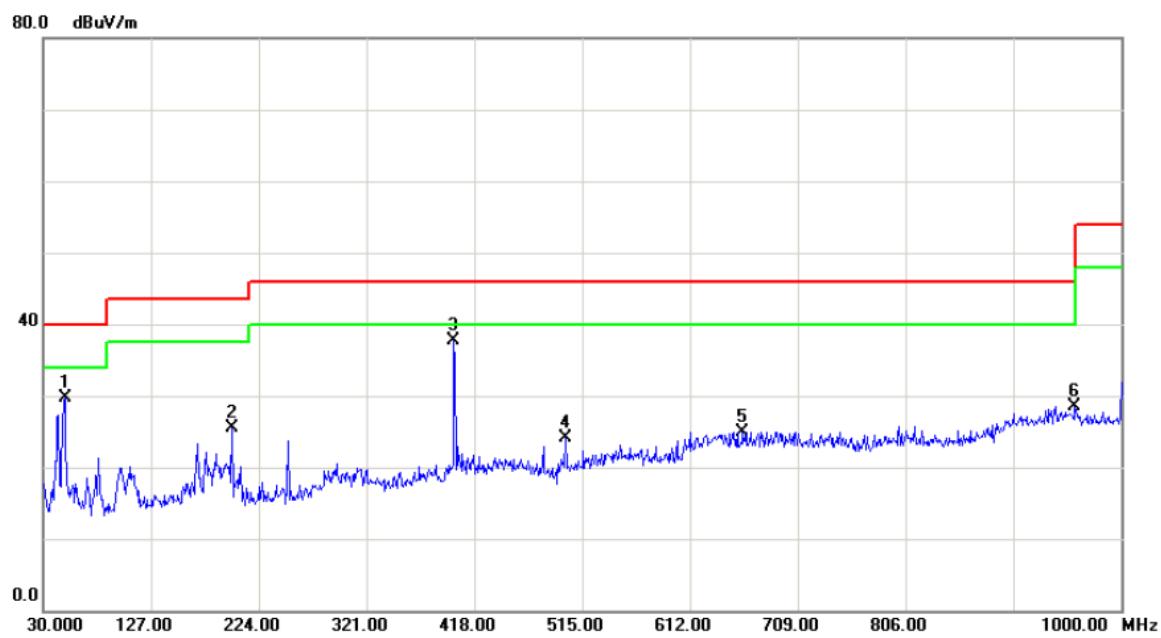
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		49.4000	43.39	-14.22	29.17	40.00	-10.83		peak
2		199.7500	39.63	-15.13	24.50	43.50	-19.00		peak
3	*	399.5700	47.99	-9.70	38.29	46.00	-7.71		peak
4		500.4500	34.65	-10.52	24.13	46.00	-21.87		peak
5		800.1800	30.20	-2.91	27.29	46.00	-18.71		peak
6		958.2900	29.41	-0.33	29.08	46.00	-16.92		peak

Test Mode: TX B MODE CHANNEL 06

Vertical

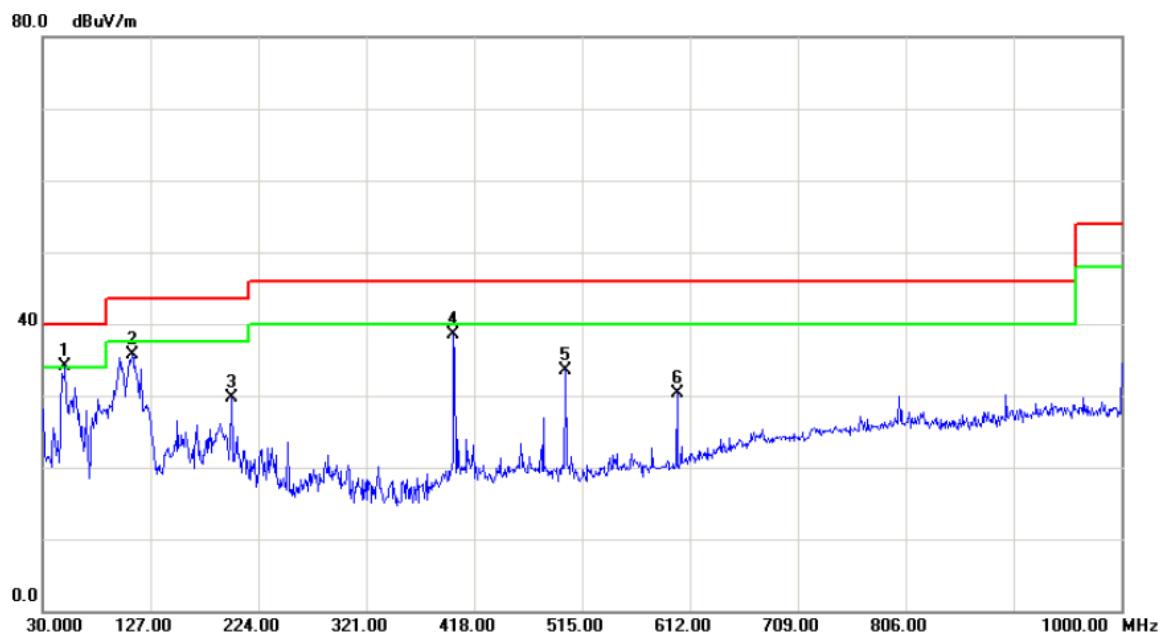
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Over Detector	Comment
1	*	50.3700	48.47	-14.29	34.18	40.00	-5.82	peak
2		111.4800	51.83	-15.24	36.59	43.50	-6.91	peak
3		199.7500	45.88	-15.13	30.75	43.50	-12.75	peak
4		399.5700	47.67	-9.70	37.97	46.00	-8.03	peak
5		500.4500	44.50	-10.52	33.98	46.00	-12.02	peak
6		600.3600	39.80	-8.08	31.72	46.00	-14.28	peak

Test Mode: TX B MODE CHANNEL 06

Horizontal

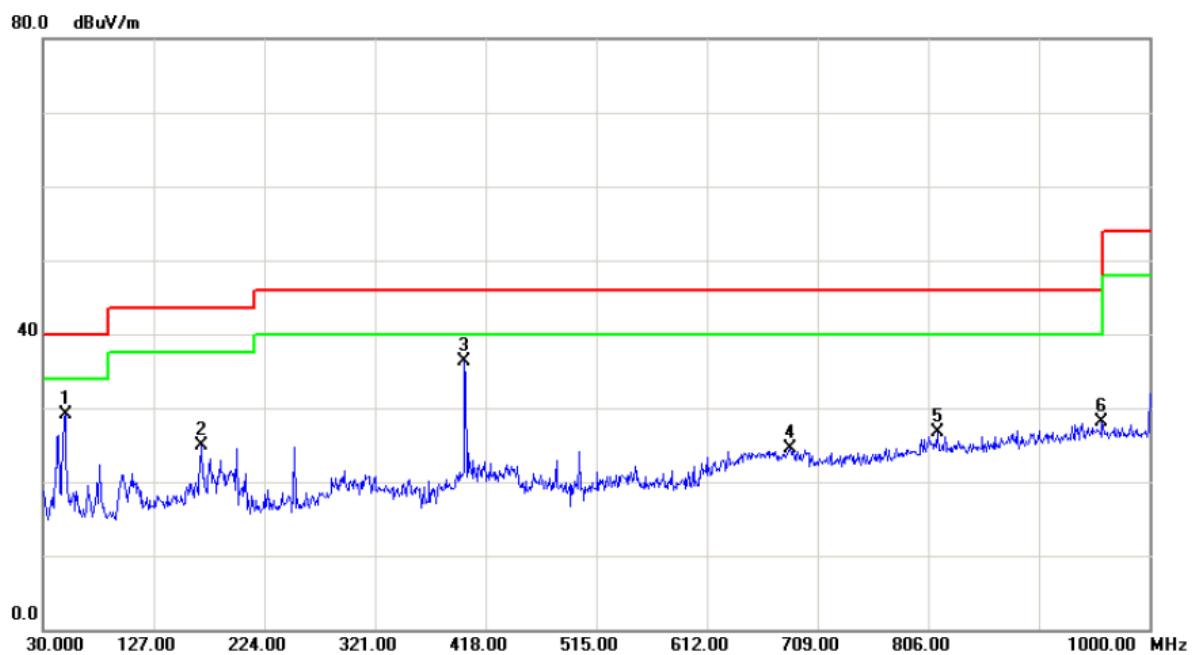
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over	
							Detector	Comment
1		49.4000	43.89	-14.22	29.67	40.00	-10.33	peak
2		199.7500	40.63	-15.13	25.50	43.50	-18.00	peak
3	*	399.5700	47.49	-9.70	37.79	46.00	-8.21	peak
4		500.4500	34.65	-10.52	24.13	46.00	-21.87	peak
5		659.5300	30.05	-5.15	24.90	46.00	-21.10	peak
6		958.2900	28.91	-0.33	28.58	46.00	-17.42	peak

Test Mode: TX B MODE CHANNEL 11

Vertical

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	50.3700	48.47	-14.29	34.18	40.00	-5.82	peak	
2		110.5100	51.00	-15.35	35.65	43.50	-7.85	peak	
3		199.7500	44.88	-15.13	29.75	43.50	-13.75	peak	
4		399.5700	48.17	-9.70	38.47	46.00	-7.53	peak	
5		500.4500	44.00	-10.52	33.48	46.00	-12.52	peak	
6		600.3600	38.30	-8.08	30.22	46.00	-15.78	peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

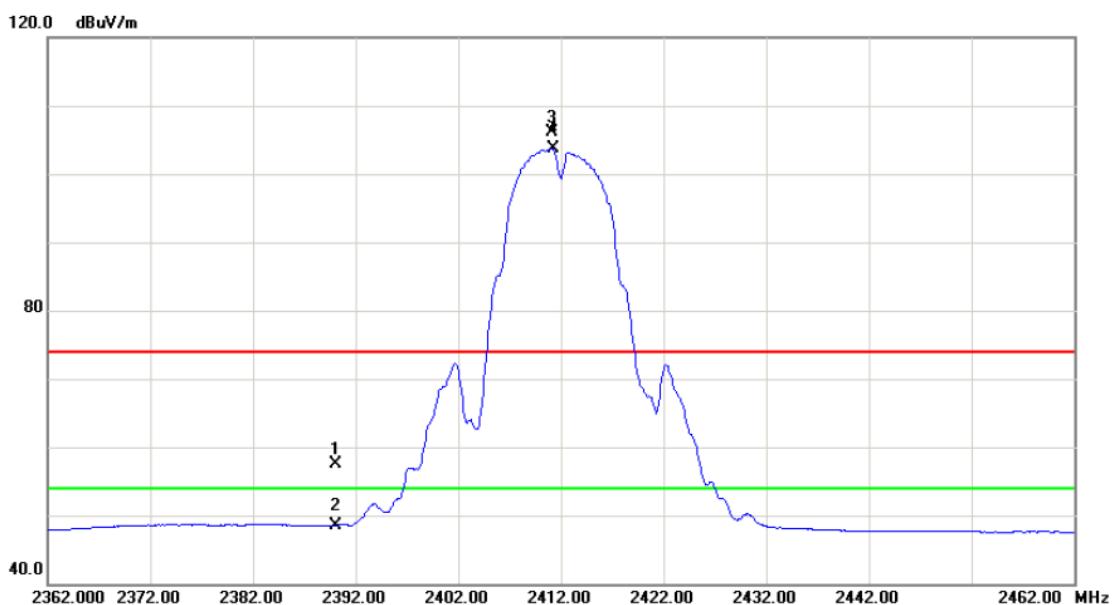
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1		49.4000	43.39	-14.22	29.17	40.00	-10.83	peak	
2		168.7100	37.71	-12.90	24.81	43.50	-18.69	peak	
3	*	399.5700	45.99	-9.70	36.29	46.00	-9.71	peak	
4		684.7500	29.62	-5.03	24.59	46.00	-21.41	peak	
5		813.7600	29.76	-3.01	26.75	46.00	-19.25	peak	
6		958.2900	28.41	-0.33	28.08	46.00	-17.92	peak	



ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

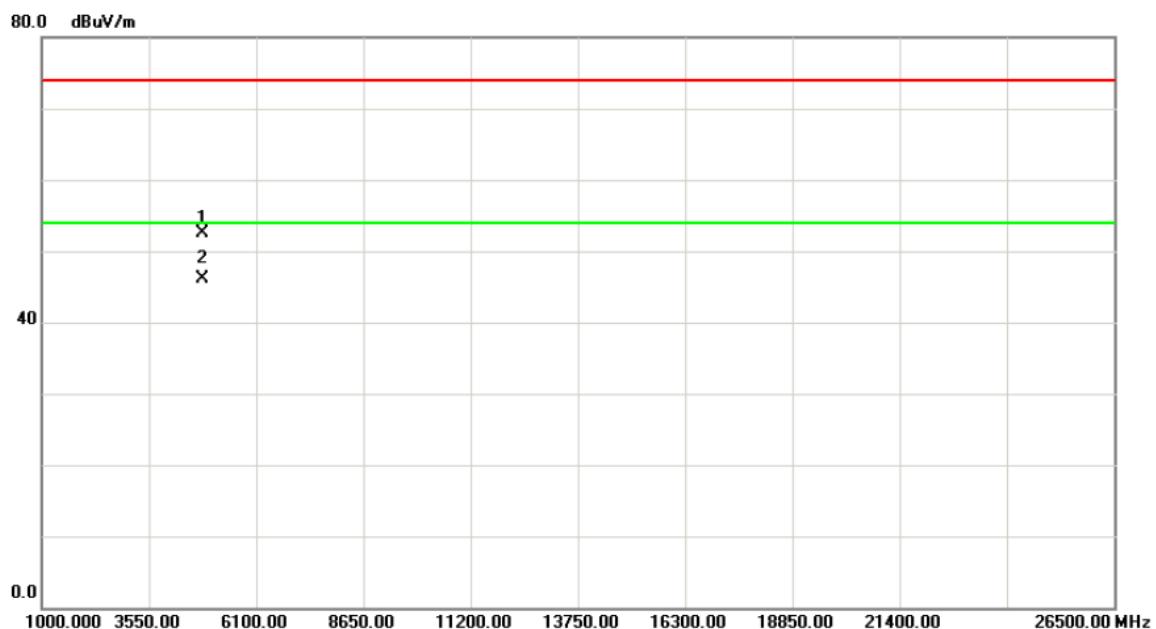
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dB _{UV}	dB	dB _{UV/m}	dB _{UV/m}	dB		
1		2390.000	24.17	33.38	57.55	74.00	-16.45	peak	
2		2390.000	15.14	33.38	48.52	54.00	-5.48	Avg	
3	X	2411.100	72.58	33.44	106.02	74.00	32.02	peak	Fundamental frequency, no limit
4	*	2411.200	70.33	33.44	103.77	54.00	49.77	Avg	Fundamental frequency, no limit

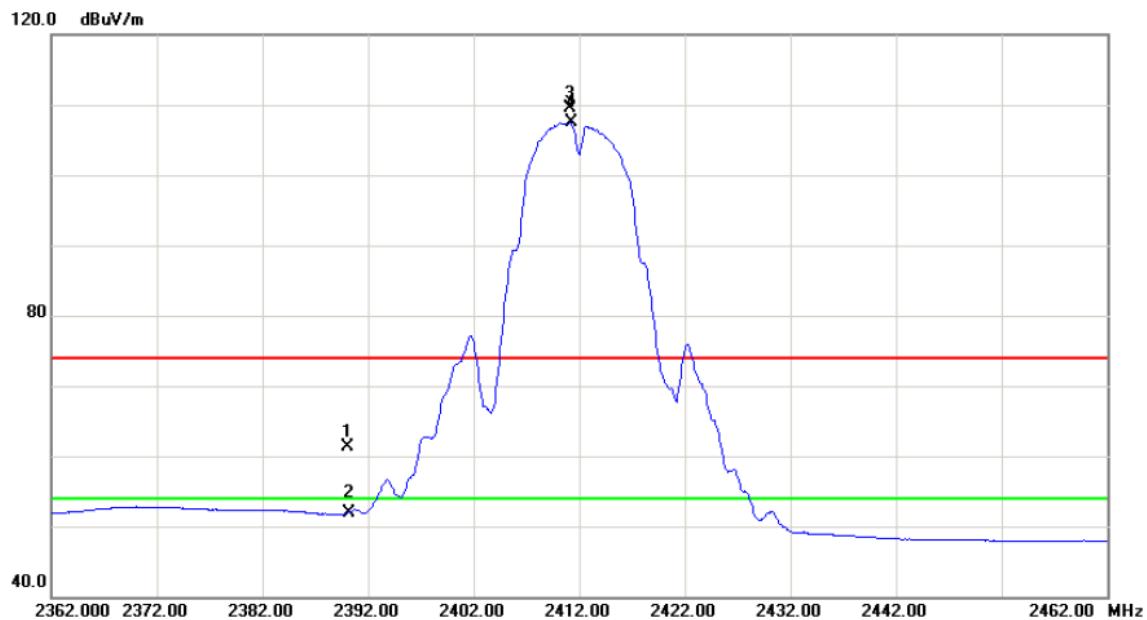
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Vertical

No.	Mk.	Freq. MHz	Reading Level dB _B V	Correct Factor dB	Measure- ment dB _B V/m	Limit dB _B V/m	Over Detector	Comment
1		4823.927	46.03	6.44	52.47	74.00	-21.53	peak
2	*	4823.970	39.61	6.44	46.05	54.00	-7.95	AVG

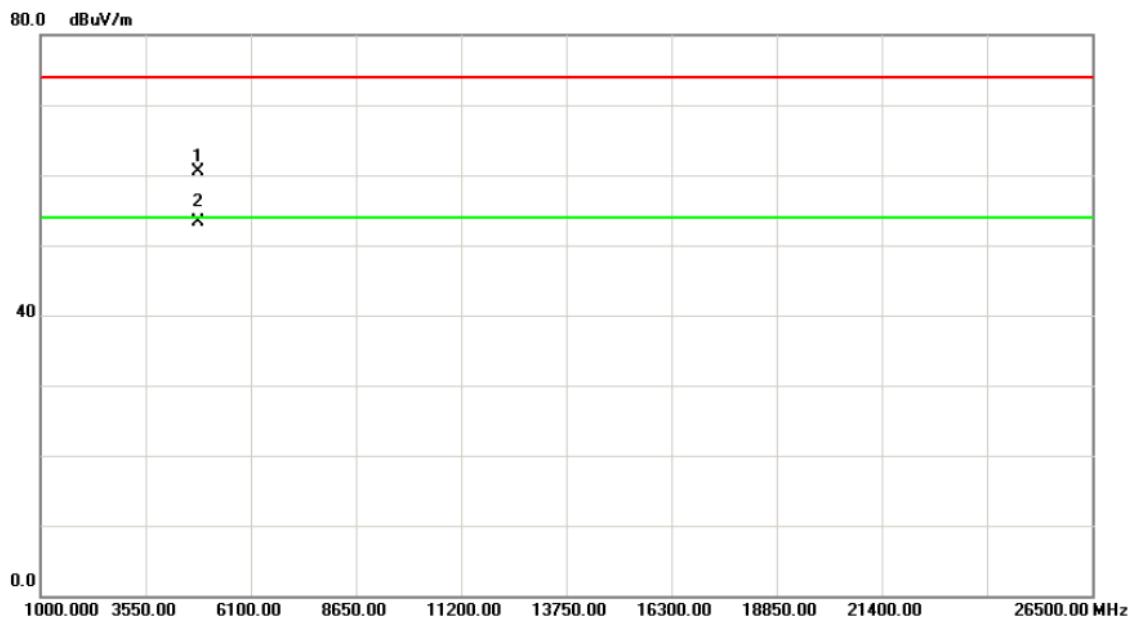
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dB _{uV}	dB	dB _{uV/m}	dB _{uV/m}	dB		
1		2390.000	27.98	33.38	61.36	74.00	-12.64	peak	
2		2390.000	18.43	33.38	51.81	54.00	-2.19	AVG	
3	X	2411.100	76.16	33.44	109.60	74.00	35.60	peak	Fundamental frequency, no limit
4	*	2411.200	74.10	33.44	107.54	54.00	53.54	AVG	Fundamental frequency, no limit

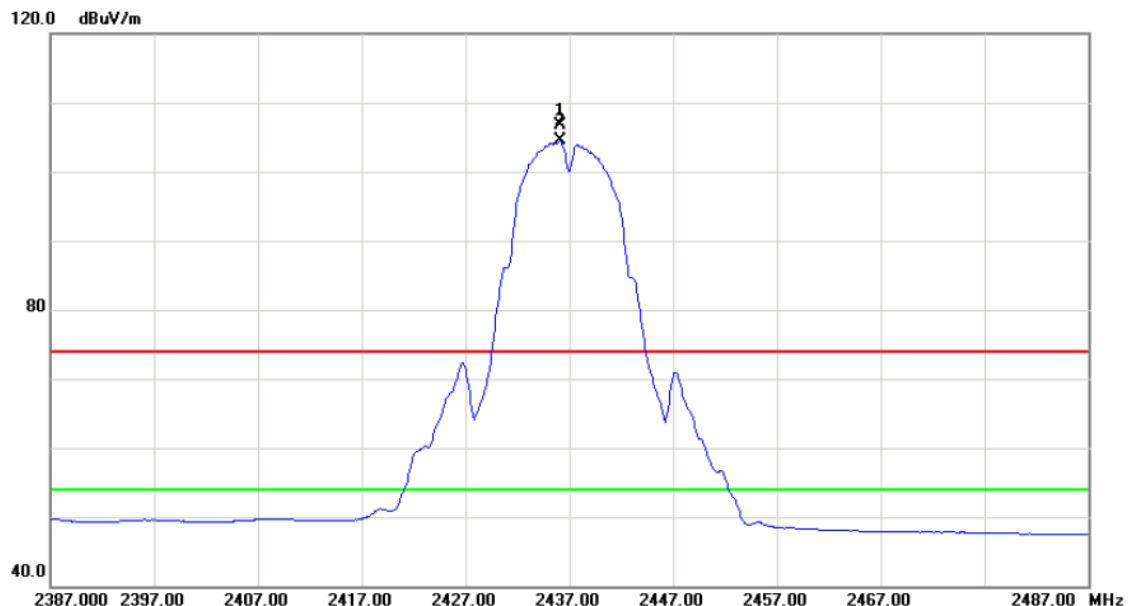
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4824.100	54.03	6.44	60.47	74.00	-13.53	peak
2	*	4824.130	46.79	6.44	53.23	54.00	-0.77	AVG

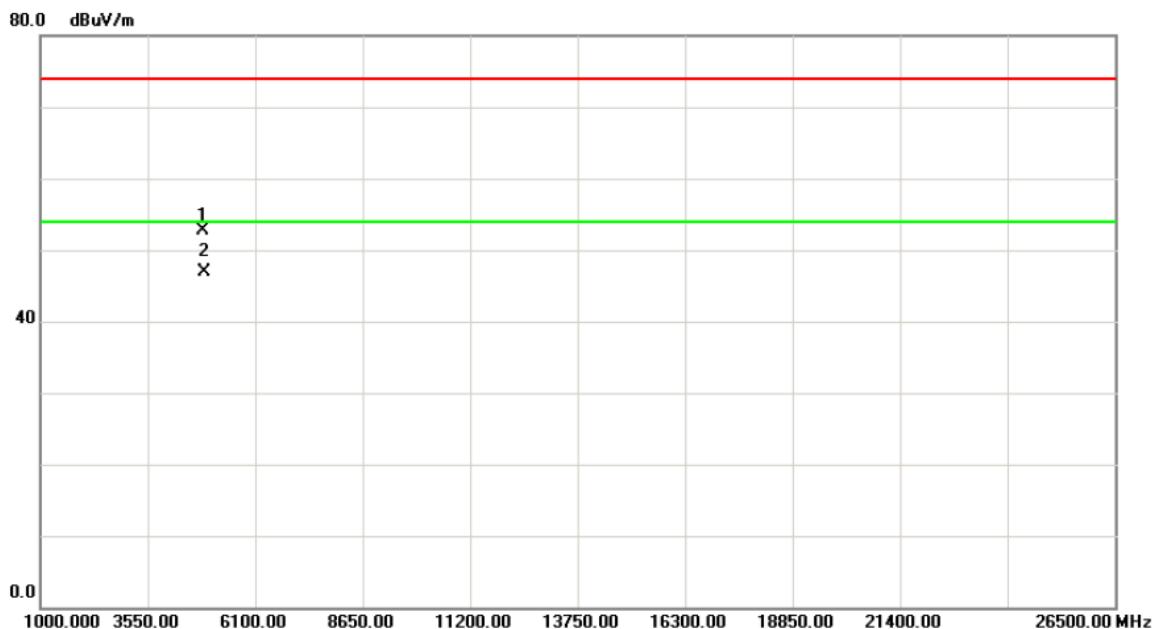
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dB			
1	X	2436.100	73.19	33.50	106.69	74.00	32.69	peak	Fundamental frequency, no limit
2	*	2436.100	70.98	33.50	104.48	54.00	50.48	AVG	Fundamental frequency, no limit

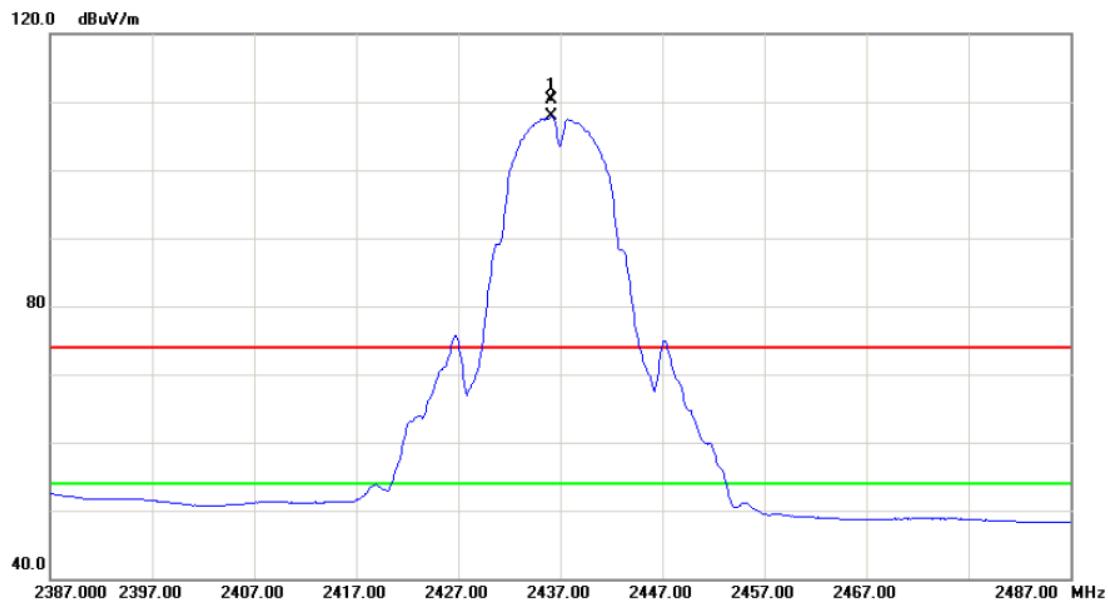
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4873.872	46.21	6.55	52.76	74.00	-21.24	peak
2	*	4873.916	40.36	6.55	46.91	54.00	-7.09	Avg

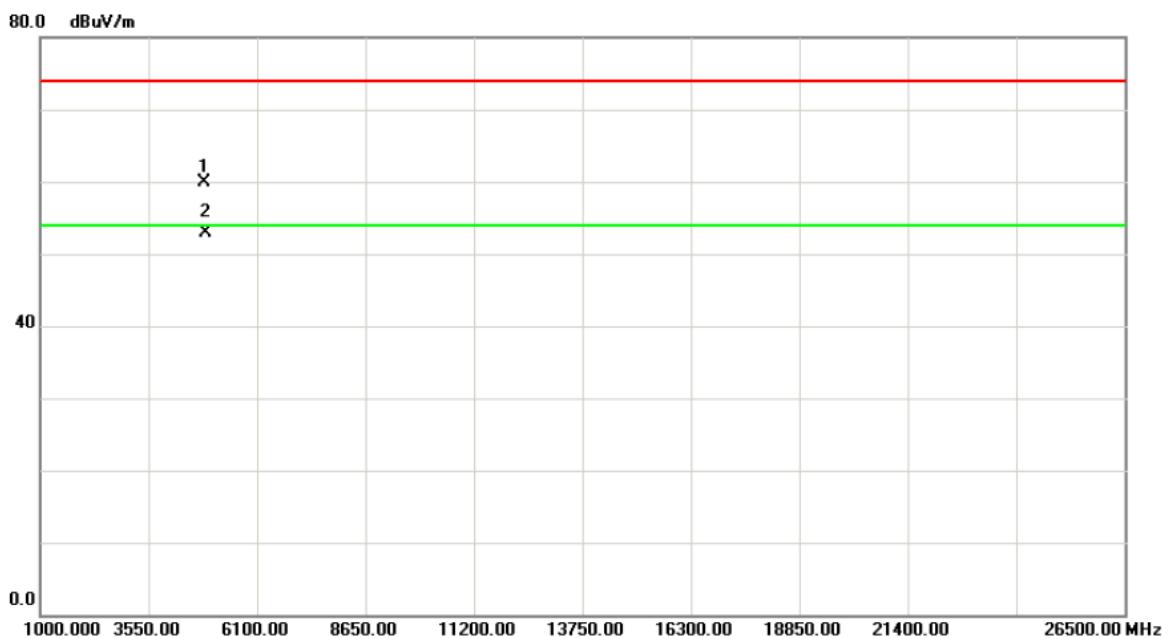
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2436.100	76.78	33.50	110.28	74.00	36.28	peak Fundamental frequency, no limit
2	*	2436.100	74.41	33.50	107.91	54.00	53.91	AVG Fundamental frequency, no limit

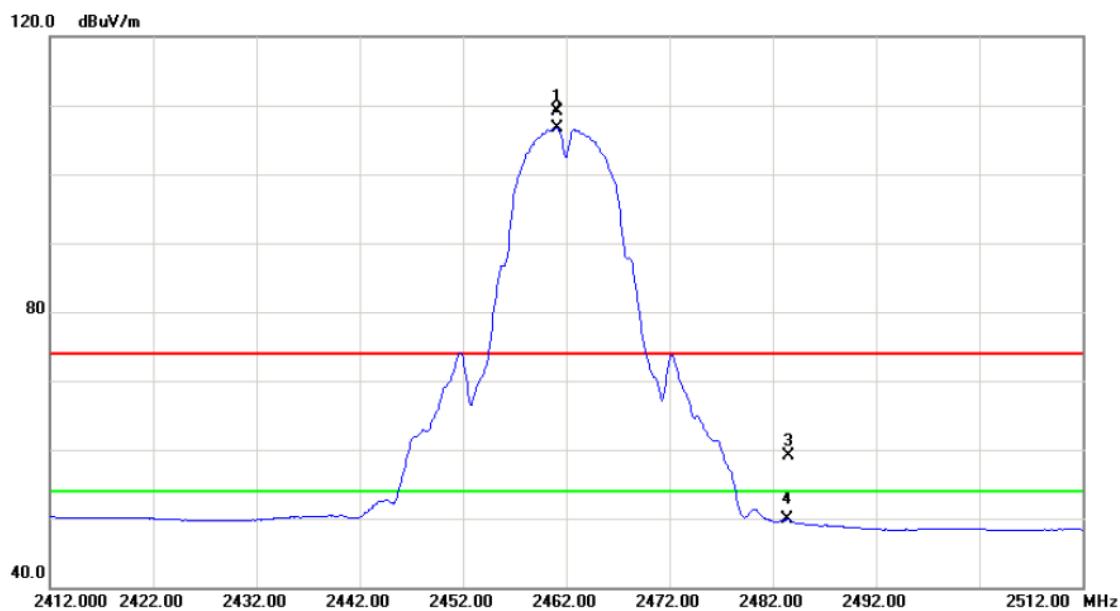
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Horizontal

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4874.047	53.45	6.55	60.00	74.00	-14.00	peak	
2	*	4874.151	46.31	6.55	52.86	54.00	-1.14	Avg	

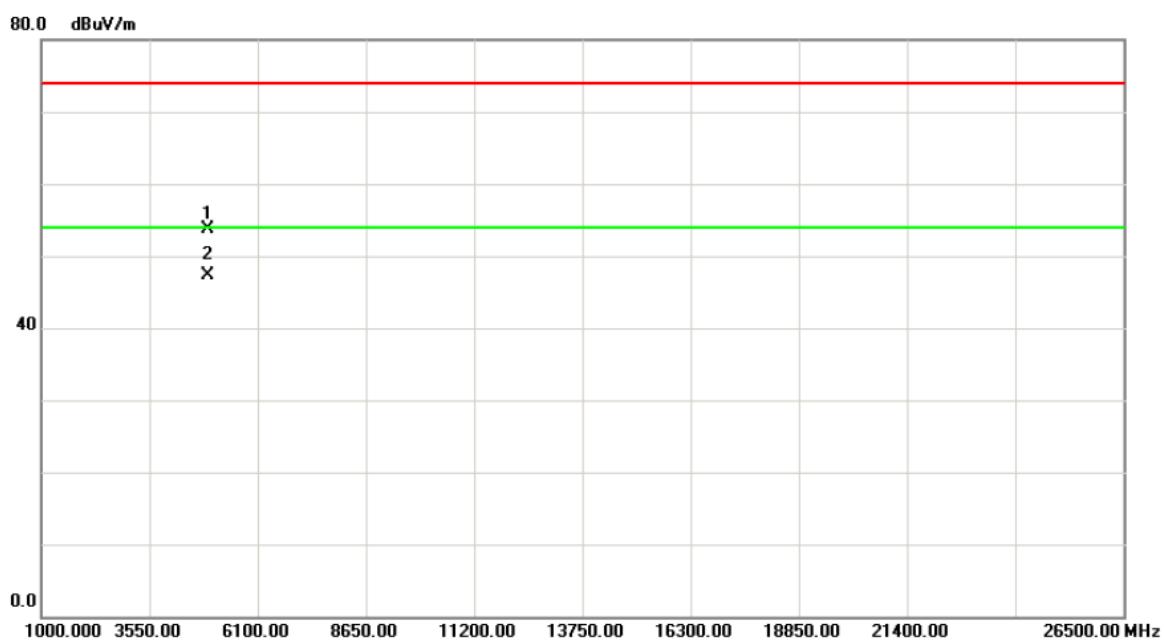
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Comment
			dB _{UV}	dB	dB _{UV} /m	dB	Detector	
1	X	2461.100	75.50	33.56	109.06	74.00	35.06	peak Fundamental frequency, no limit
2	*	2461.100	73.22	33.56	106.78	54.00	52.78	AVG Fundamental frequency, no limit
3		2483.500	25.52	33.62	59.14	74.00	-14.86	peak
4		2483.500	16.20	33.62	49.82	54.00	-4.18	AVG

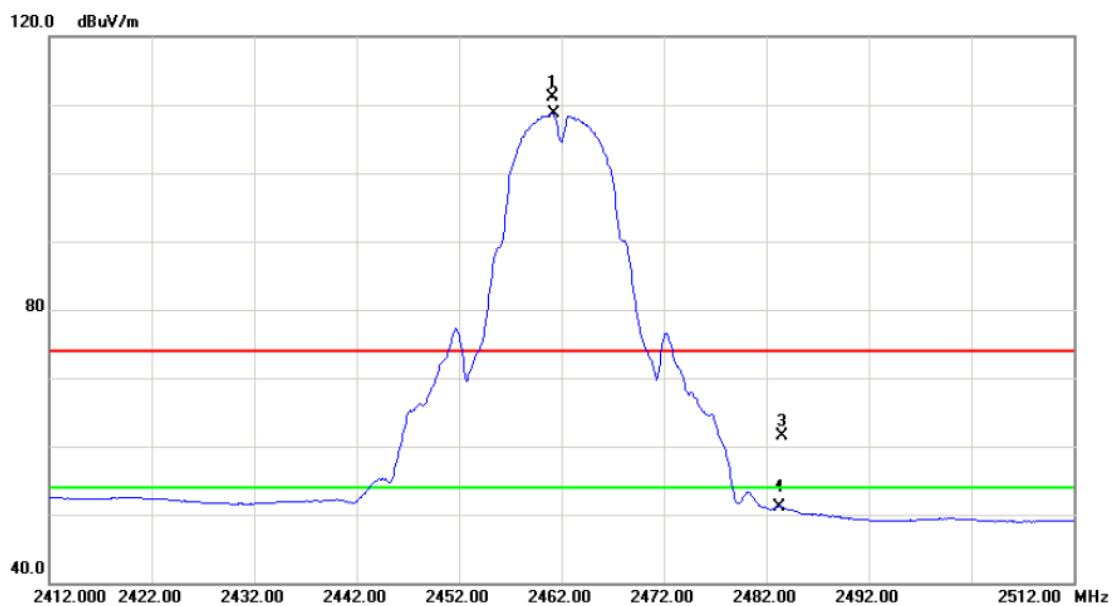
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Vertical

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		4923.952	47.13	6.66	53.79	74.00	-20.21	peak	
2	*	4924.017	40.61	6.66	47.27	54.00	-6.73	AVG	

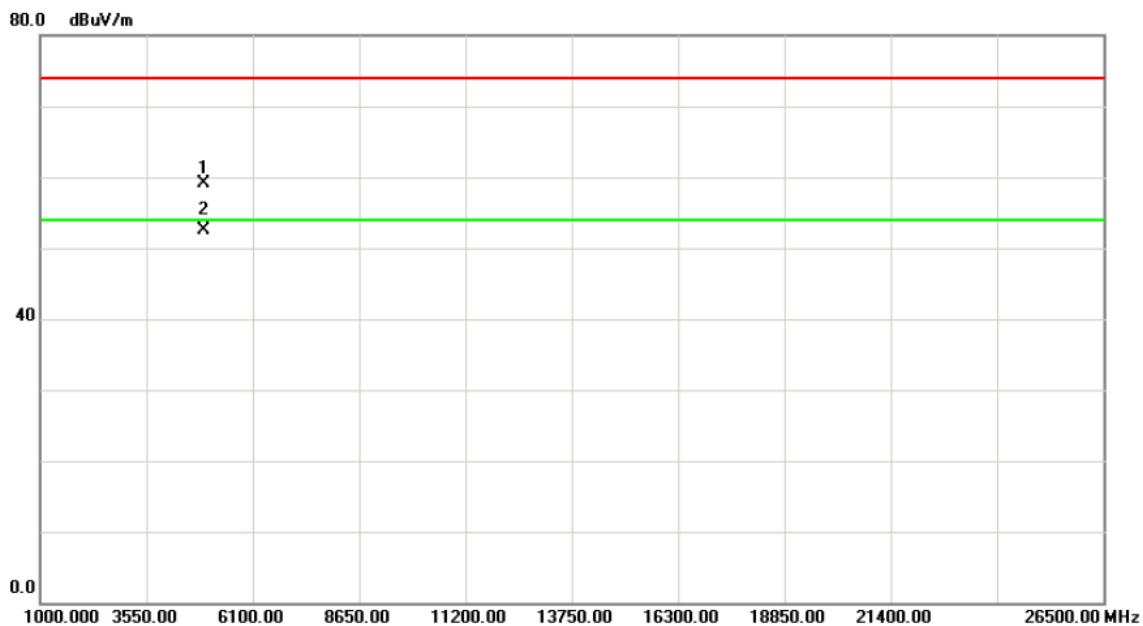
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	2461.100	77.46	33.56	111.02	74.00	37.02	peak	Fundamental frequency, no limit
2	*	2461.200	75.18	33.56	108.74	54.00	54.74	AVG	Fundamental frequency, no limit
3		2483.500	27.89	33.62	61.51	74.00	-12.49	peak	
4		2483.500	17.53	33.62	51.15	54.00	-2.85	AVG	

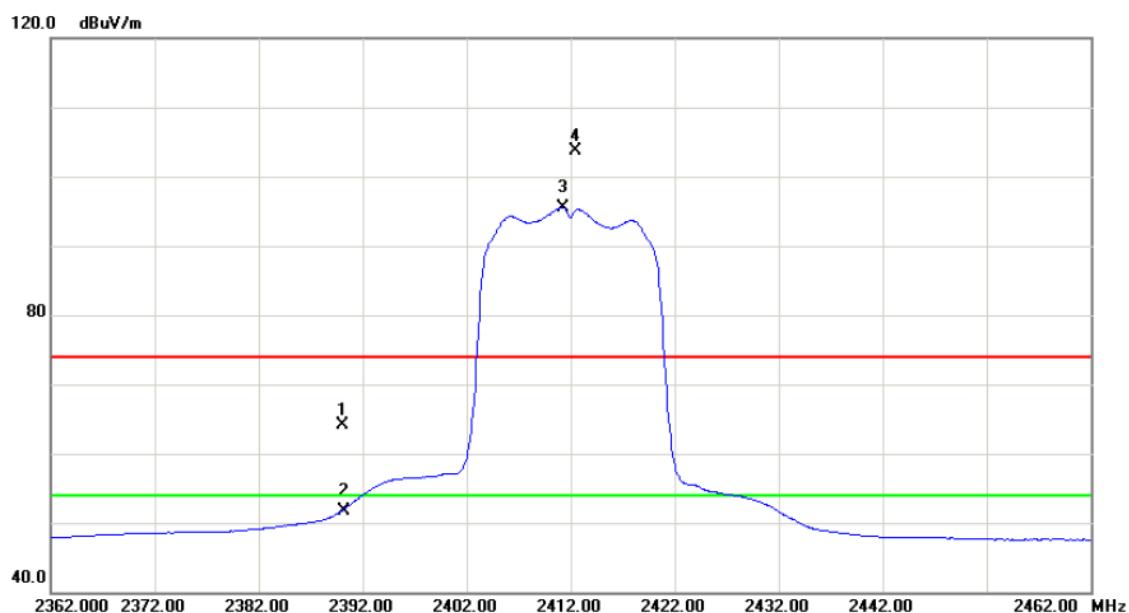
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Horizontal

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		4924.207	52.41	6.66	59.07	74.00	-14.93	peak	
2	*	4924.216	45.94	6.66	52.60	54.00	-1.40	Avg	

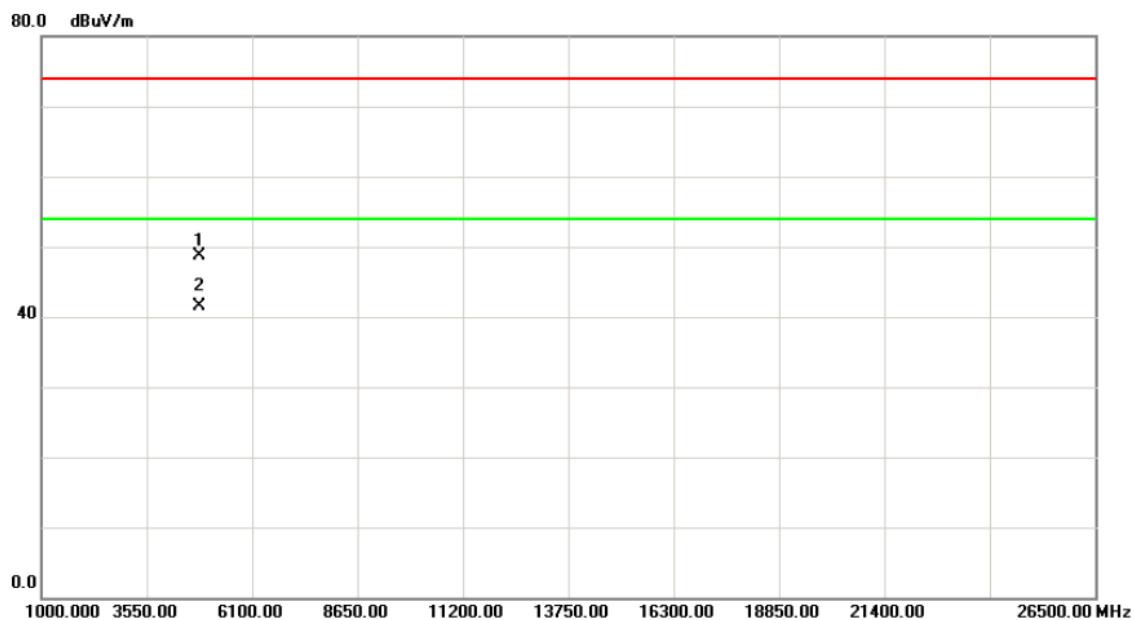
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Comment
			dBuV	dB	dBuV/m	dB	Detector	
1		2390.000	30.81	33.38	64.19	74.00	-9.81	peak
2		2390.000	18.41	33.38	51.79	54.00	-2.21	Avg
3	*	2411.200	62.06	33.44	95.50	54.00	41.50	Avg
4	X	2412.400	70.35	33.44	103.79	74.00	29.79	peak
								Fundamental frequency, no limit
								Fundamental frequency, no limit

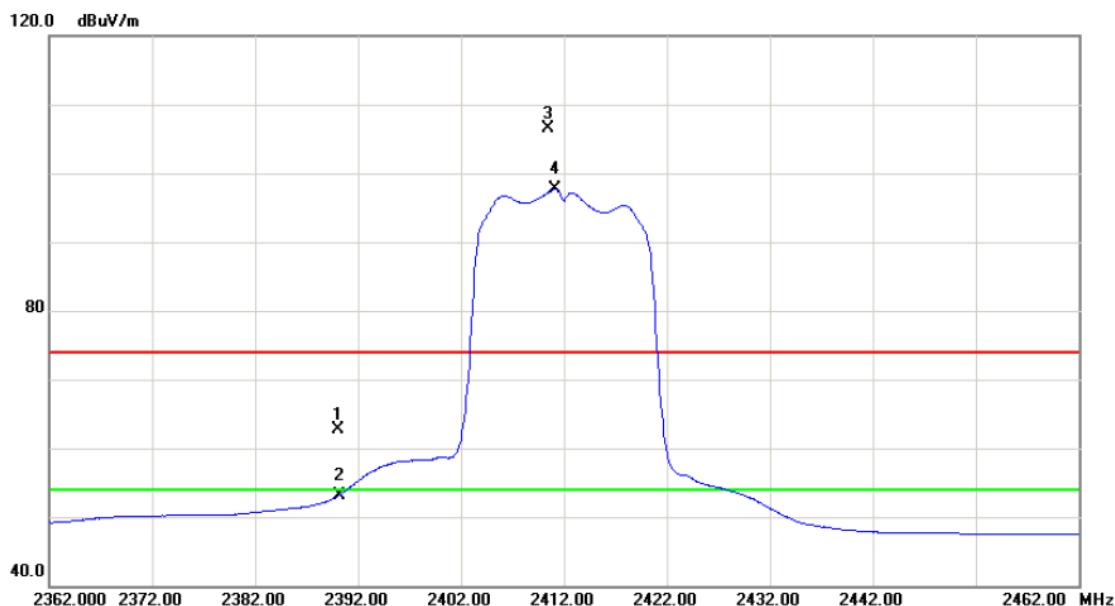
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4824.011	42.36	6.44	48.80	74.00	-25.20	peak
2	*	4824.127	35.12	6.44	41.56	54.00	-12.44	AVG

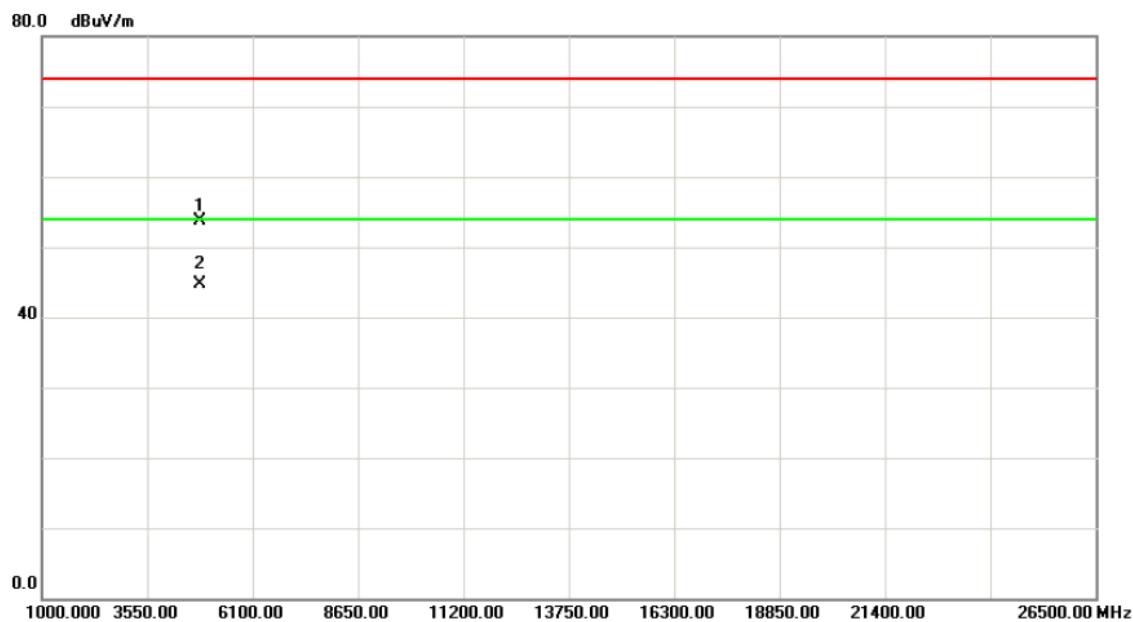
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	29.33	33.38	62.71	74.00	-11.29	peak	
2		2390.000	19.68	33.38	53.06	54.00	-0.94	AVG	
3	X	2410.500	73.08	33.44	106.52	74.00	32.52	peak	Fundamental frequency, no limit
4	*	2411.100	64.22	33.44	97.66	54.00	43.66	AVG	Fundamental frequency, no limit

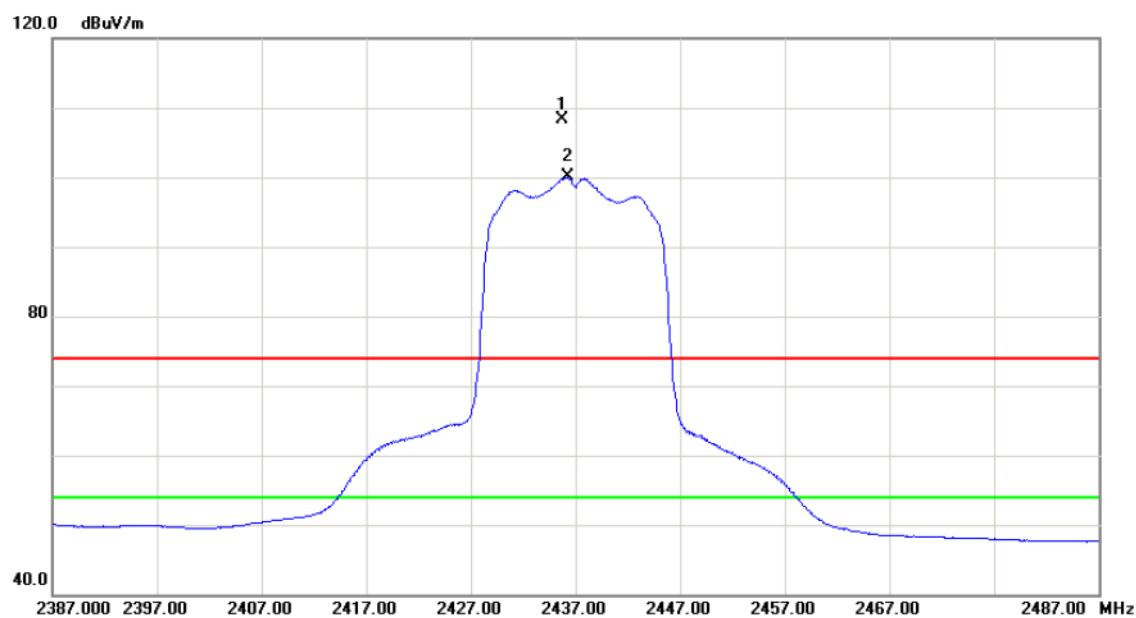
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4823.914	47.32	6.44	53.76	74.00	-20.24	peak
2	*	4823.951	38.27	6.44	44.71	54.00	-9.29	AVG

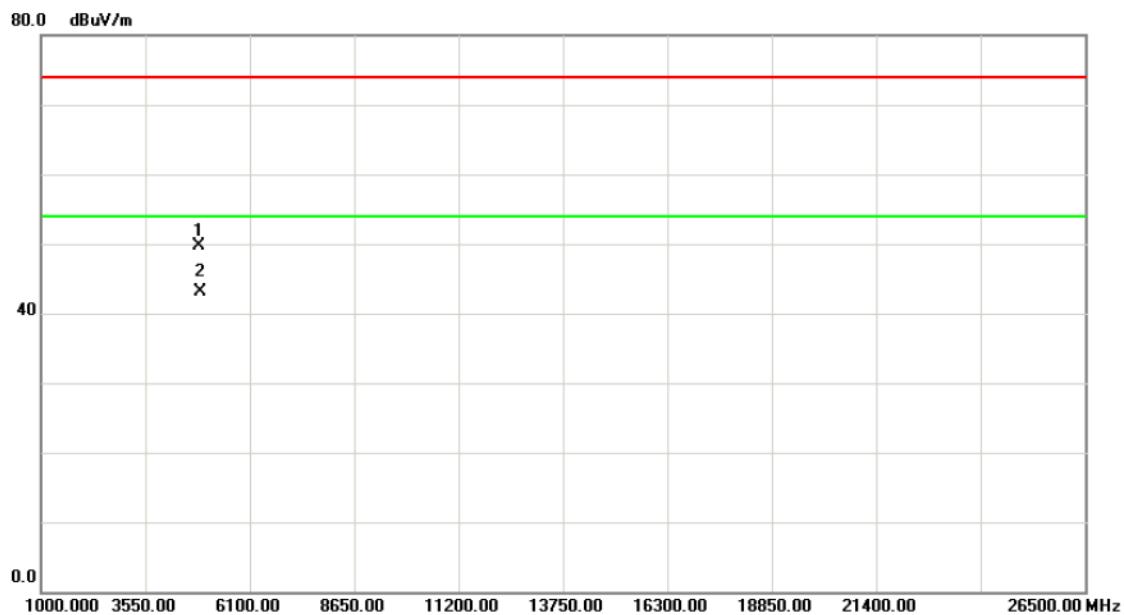
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2435.700	74.87	33.50	108.37	74.00	34.37	peak	Fundamental frequency, no limit
2	*	2436.300	66.53	33.50	100.03	54.00	46.03	AVG	Fundamental frequency, no limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

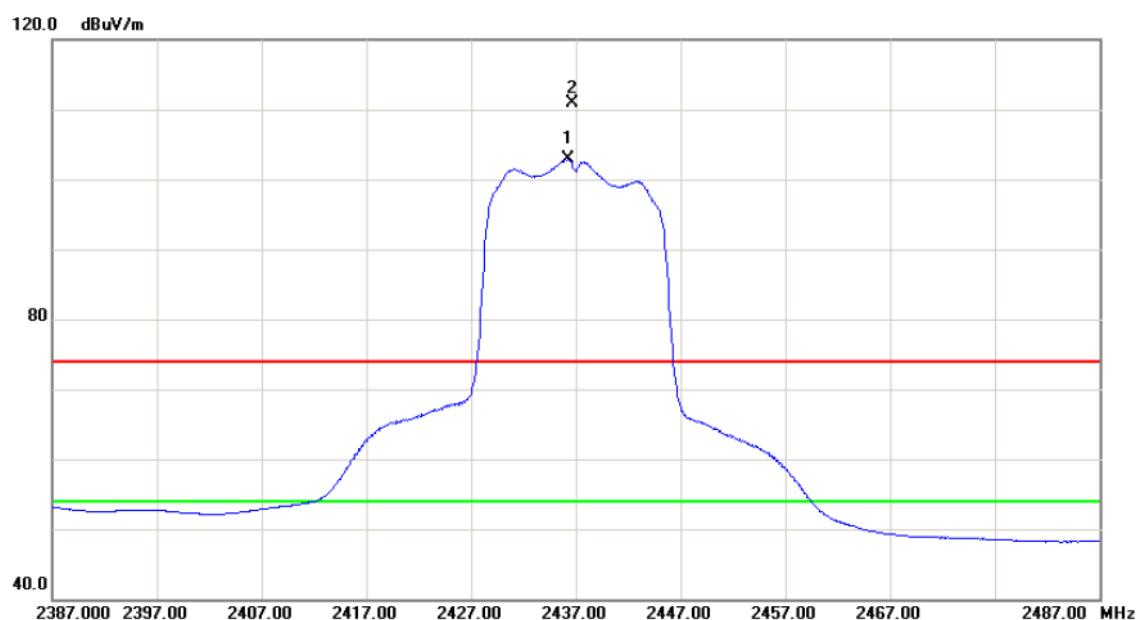
Vertical

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	
1		4873.956	43.11	6.55	49.66	74.00	-24.34	peak
2	*	4873.983	36.52	6.55	43.07	54.00	-10.93	AVG

Orthogonal Axis : X

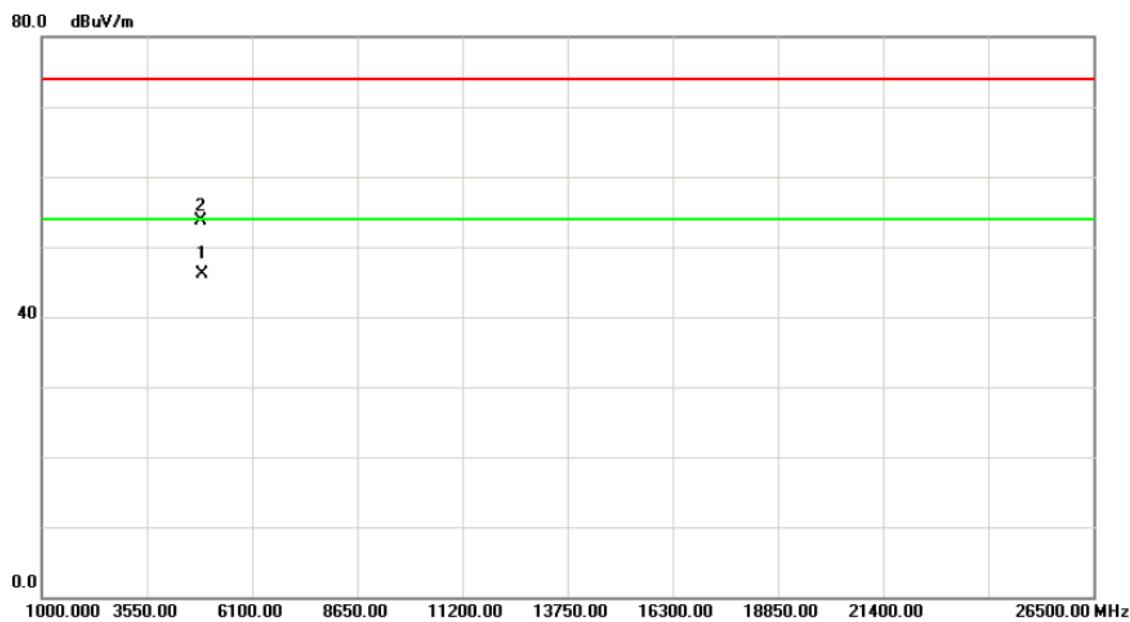
Test Mode : TX G MODE 2437MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	2436.300	69.38	33.50	102.88	54.00	48.88	AVG Fundamental frequency, no limit
2	X	2436.600	77.47	33.50	110.97	74.00	36.97	peak Fundamental frequency, no limit

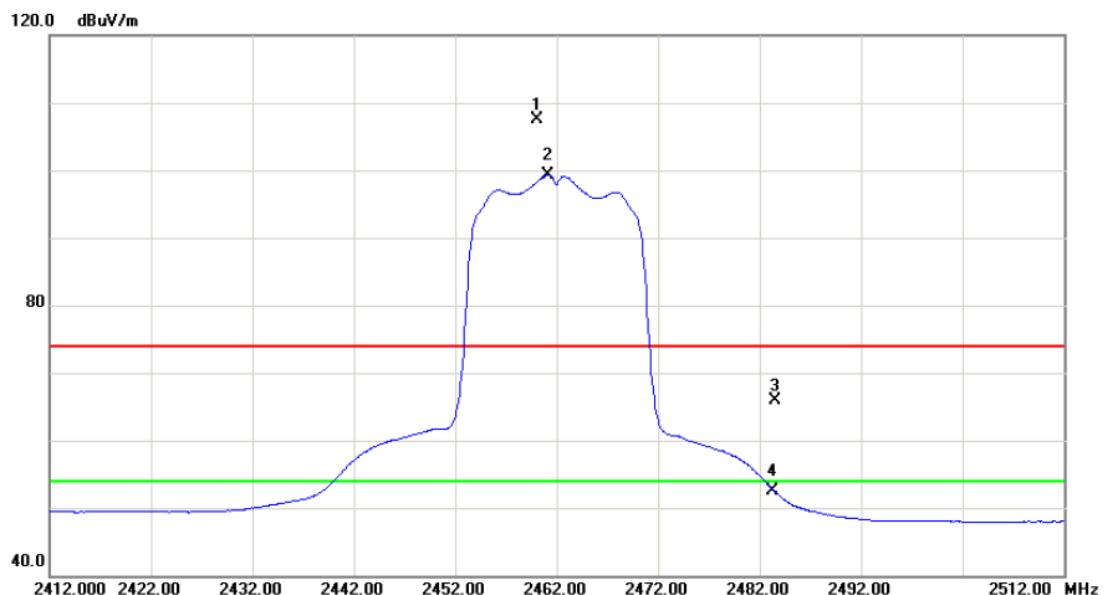
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

Horizontal

No.	Mk.	Freq.	Reading	Correct	Measure-		Limit	Over
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	4874.103	39.47	6.55	46.02	54.00	-7.98	AVG
2		4874.145	47.14	6.55	53.69	74.00	-20.31	peak

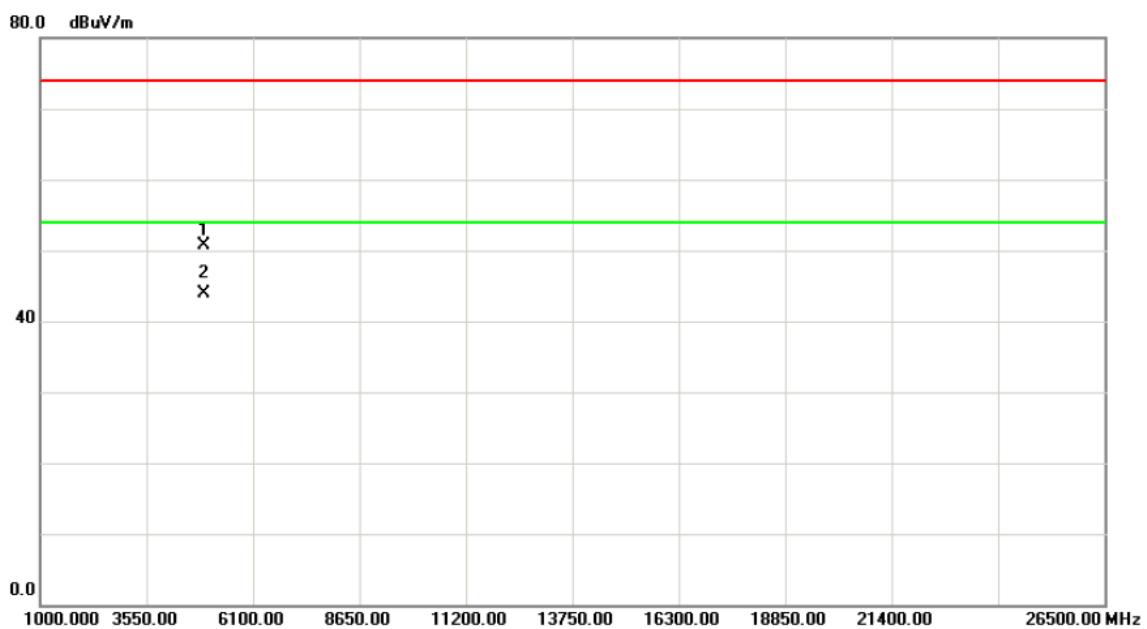
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment Limit dBuV/m	Over dB	Detector	Comment
1	X	2460.100	74.02	33.56	107.58	74.00	33.58	peak Fundamental frequency, no limit
2	*	2461.100	65.80	33.56	99.36	54.00	45.36	AVG Fundamental frequency, no limit
3		2483.500	32.24	33.62	65.86	74.00	-8.14	peak
4		2483.500	18.90	33.62	52.52	54.00	-1.48	AVG

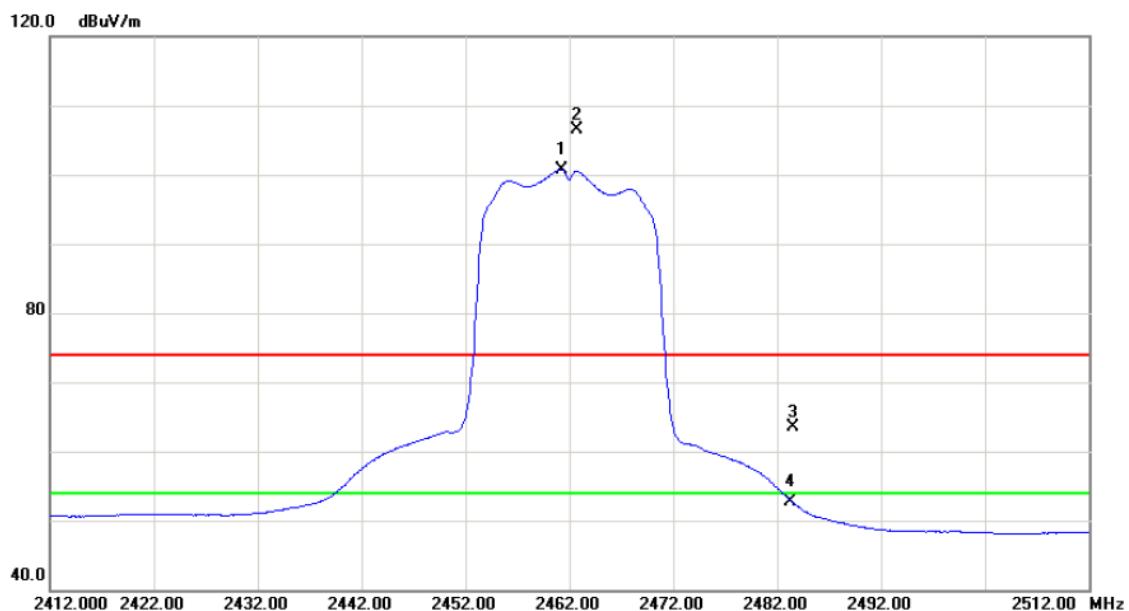
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4924.011	43.97	6.66	50.63	74.00	-23.37	peak
2	*	4924.012	37.22	6.66	43.88	54.00	-10.12	AVG

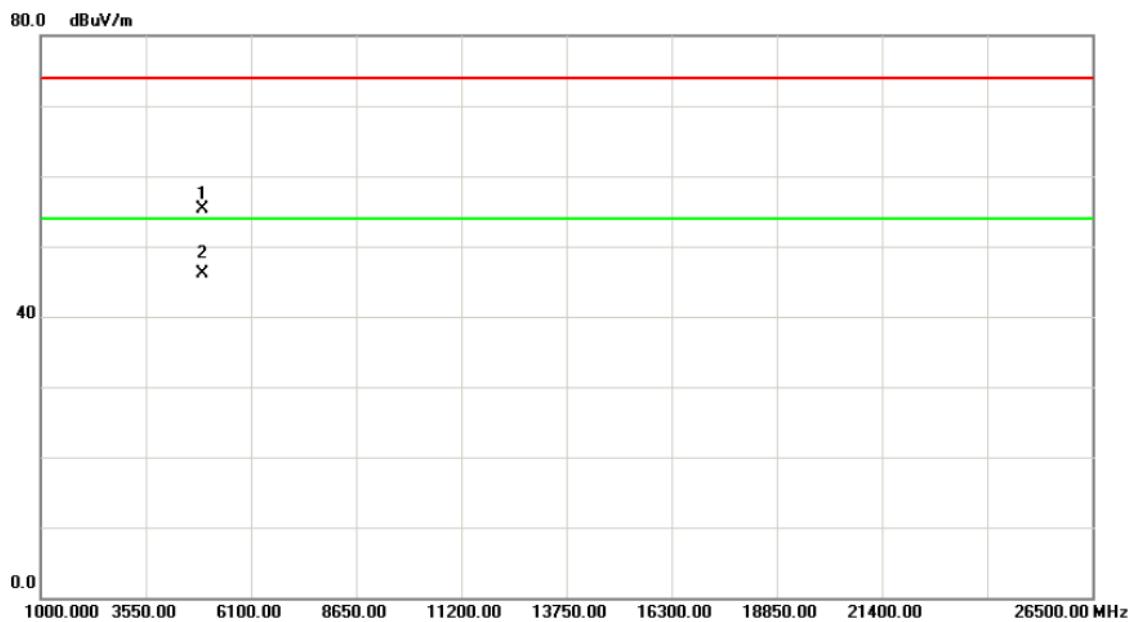
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	2461.200	67.22	33.56	100.78	54.00	46.78	AVG Fundamental frequency, no limit
2	X	2462.700	73.03	33.57	106.60	74.00	32.60	peak Fundamental frequency, no limit
3		2483.500	29.98	33.62	63.60	74.00	-10.40	peak
4		2483.500	19.04	33.62	52.66	54.00	-1.34	AVG

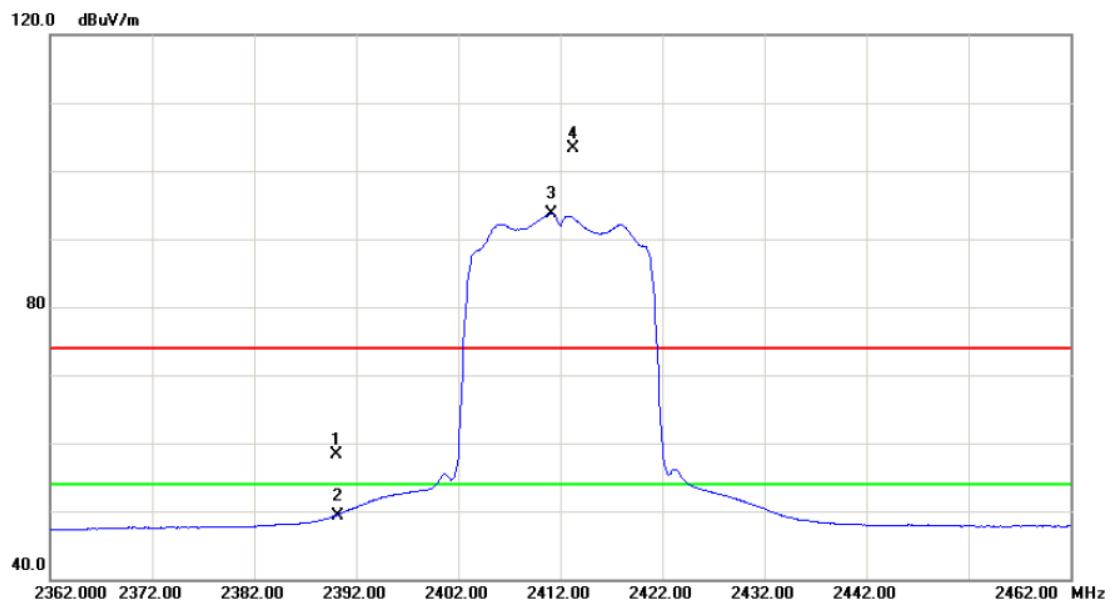
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4923.895	48.67	6.66	55.33	74.00	-18.67	peak
2	*	4923.895	39.48	6.66	46.14	54.00	-7.86	AVG

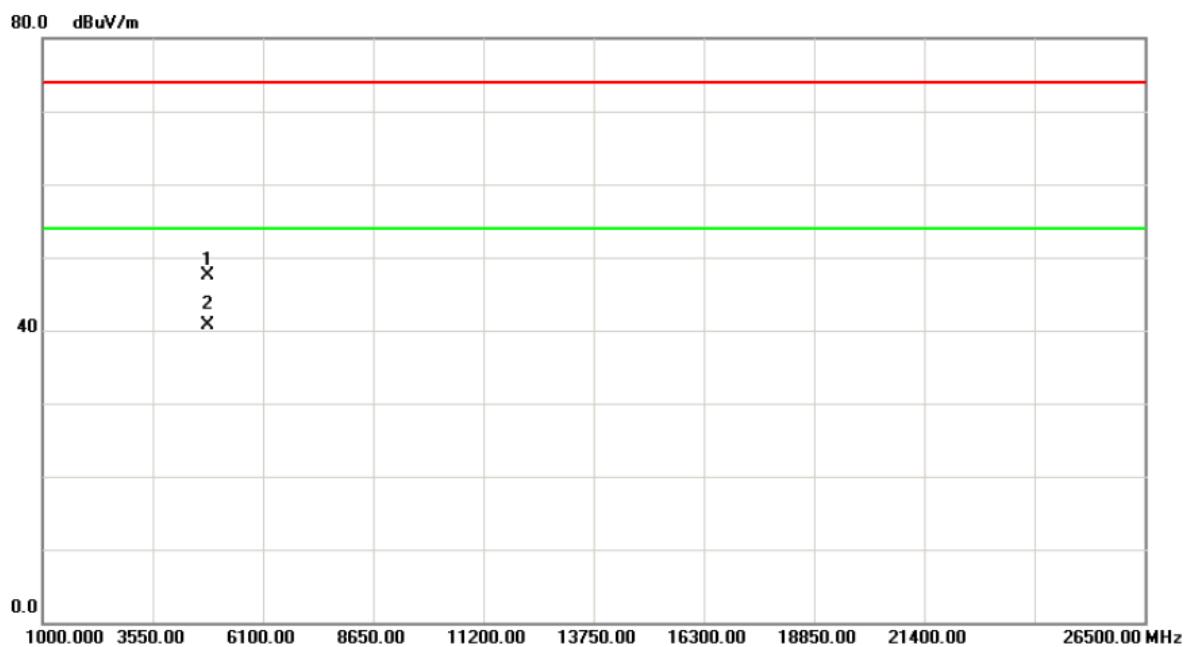
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		2390.000	24.85	33.38	58.23	74.00	-15.77	peak
2		2390.000	16.00	33.38	49.38	54.00	-4.62	Avg
3	*	2411.100	60.20	33.44	93.64	54.00	39.64	Avg Fundamental frequency, no limit
4	X	2413.300	69.82	33.44	103.26	74.00	29.26	peak Fundamental frequency, no limit

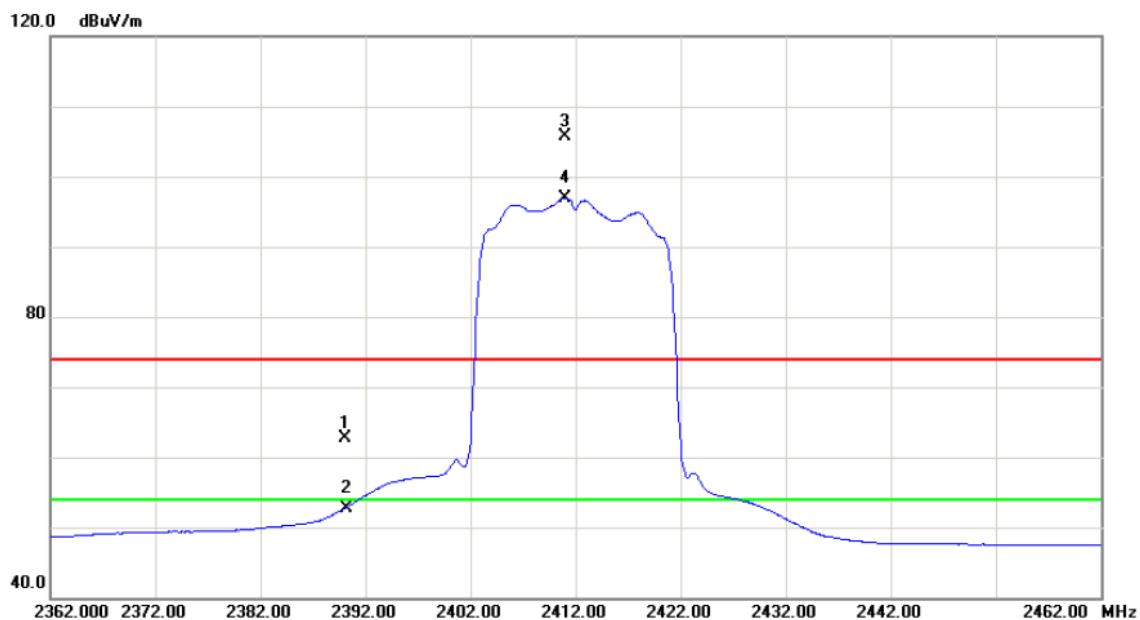
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Vertical

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
MHz		dB _{UV}	dB	dB _{UV/m}	dB _{UV/m}	dB			
1		4824.113	41.03	6.44	47.47	74.00	-26.53	peak	
2	*	4824.127	34.17	6.44	40.61	54.00	-13.39	Avg	

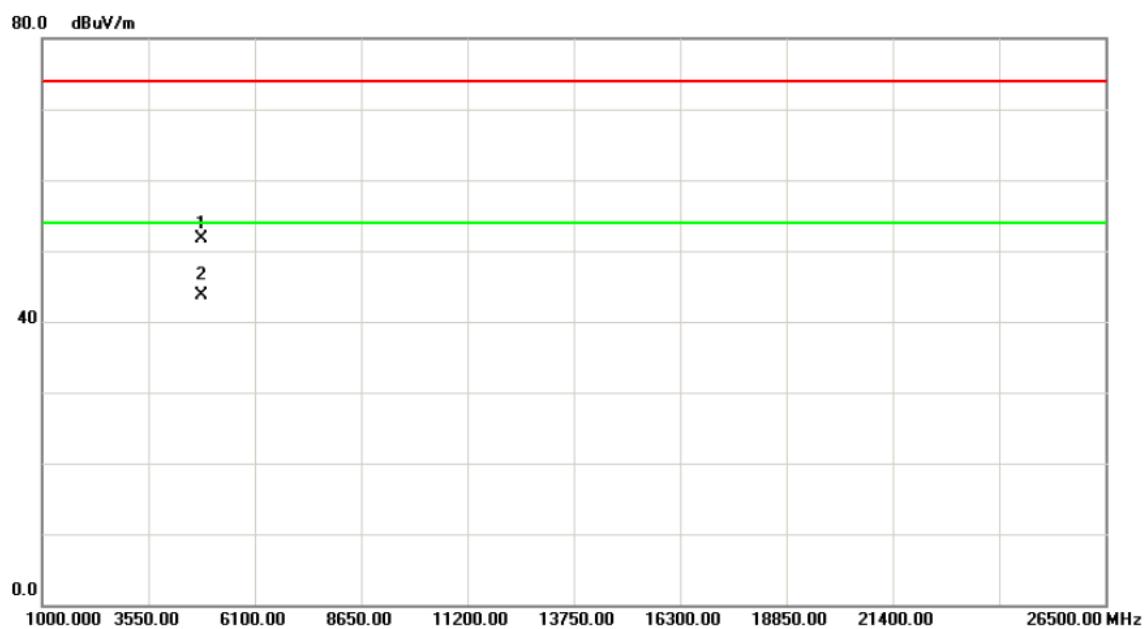
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Horizontal



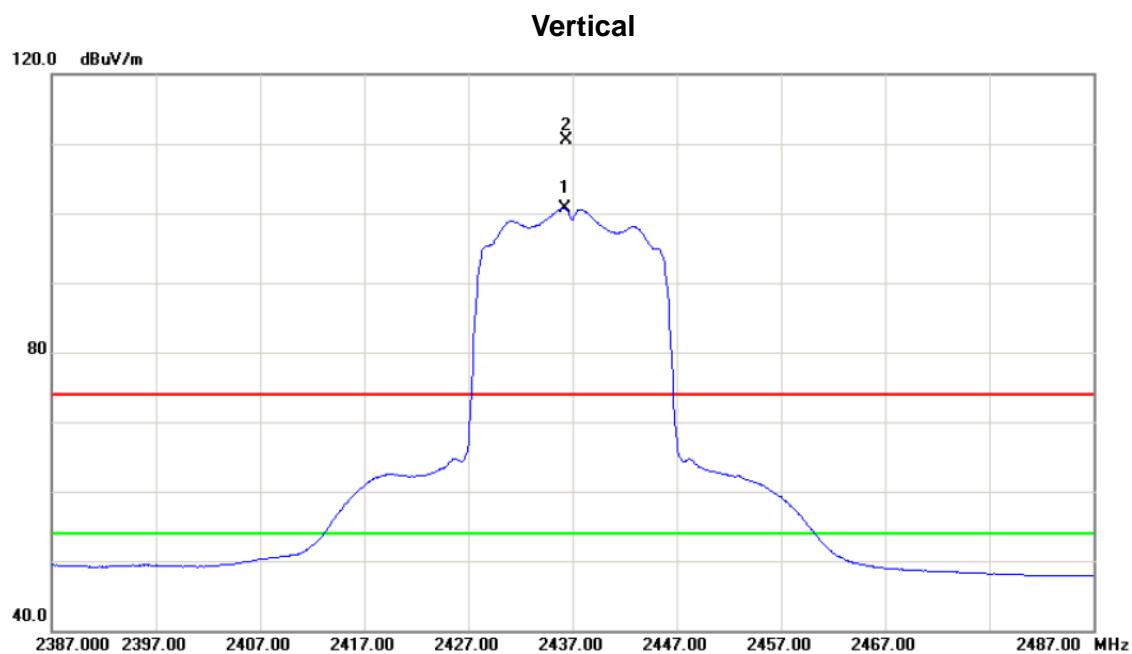
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	29.34	33.38	62.72	74.00	-11.28	peak	
2		2390.000	19.34	33.38	52.72	54.00	-1.28	AVG	
3	X	2411.000	72.19	33.44	105.63	74.00	31.63	peak	Fundamental frequency, no limit
4	*	2411.000	63.46	33.44	96.90	54.00	42.90	AVG	Fundamental frequency, no limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Horizontal

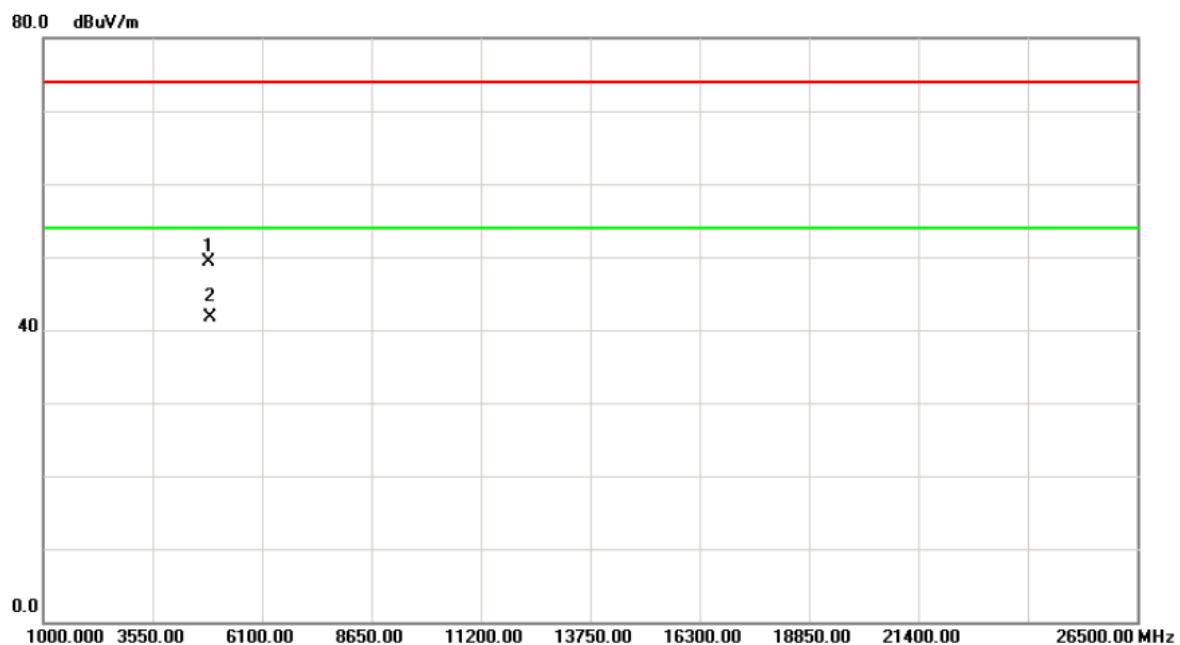
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dB _{BuV}	dB	dB _{BuV/m}	dB	Detector	Comment
1		4823.941	45.36	6.44	51.80	74.00	-22.20	peak
2	*	4823.957	37.27	6.44	43.71	54.00	-10.29	Avg

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz



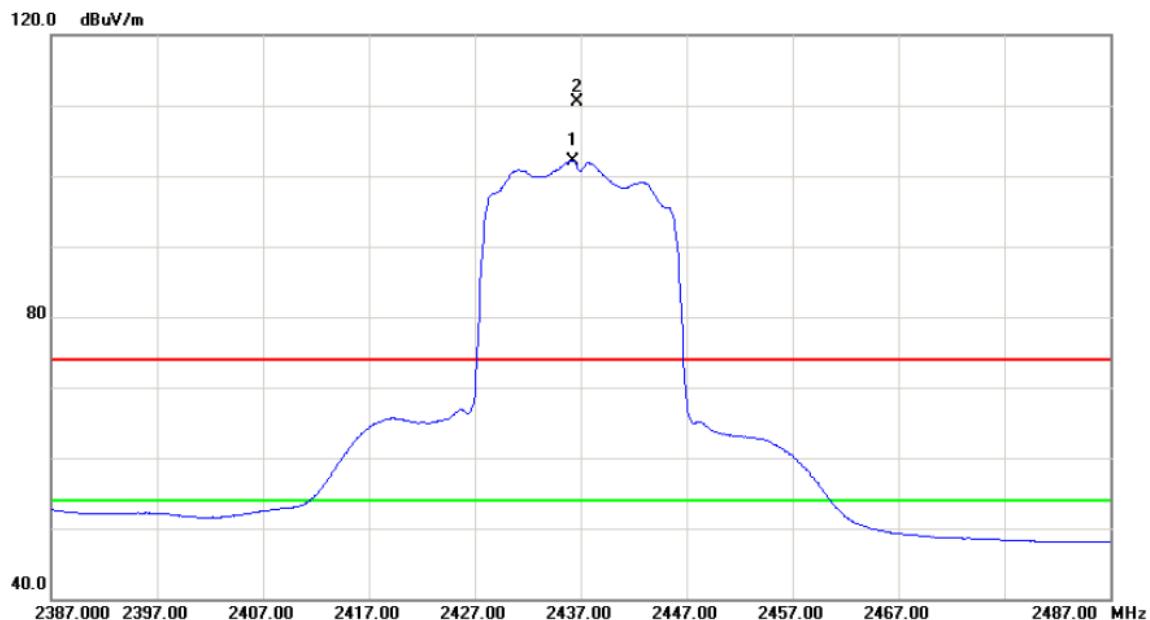
No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2436.200	67.21	33.50	100.71	54.00	46.71	Avg	Fundamental frequency, no limit
2	X	2436.400	77.06	33.50	110.56	74.00	36.56	peak	Fundamental frequency, no limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

Vertical

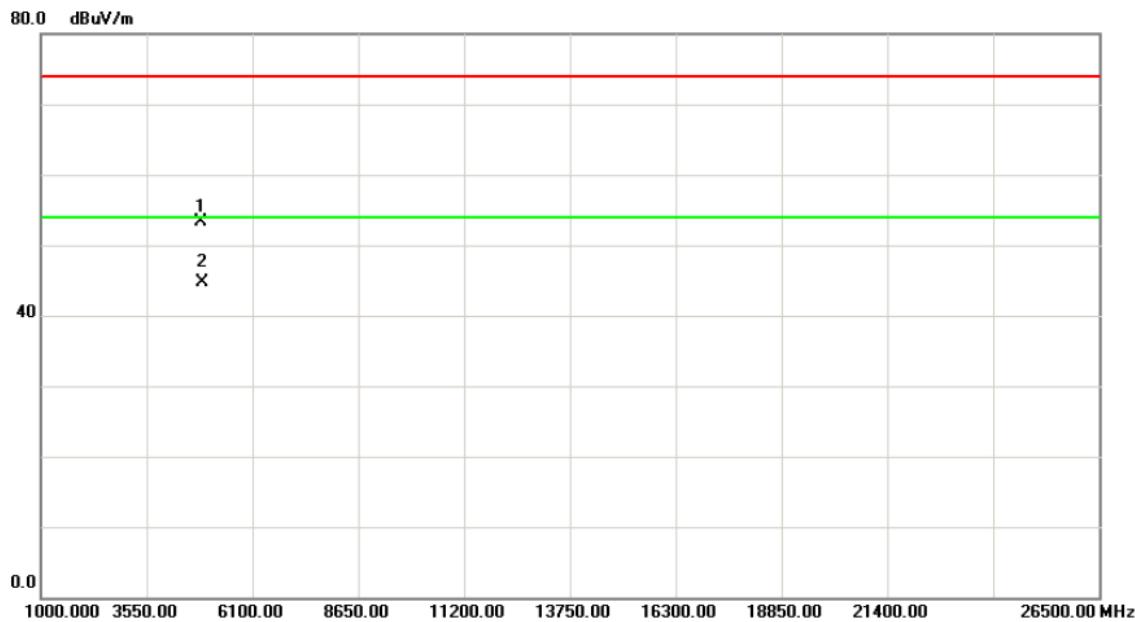
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		4874.201	42.85	6.55	49.40	74.00	-24.60	peak	
2	*	4874.323	35.17	6.55	41.72	54.00	-12.28	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

Horizontal

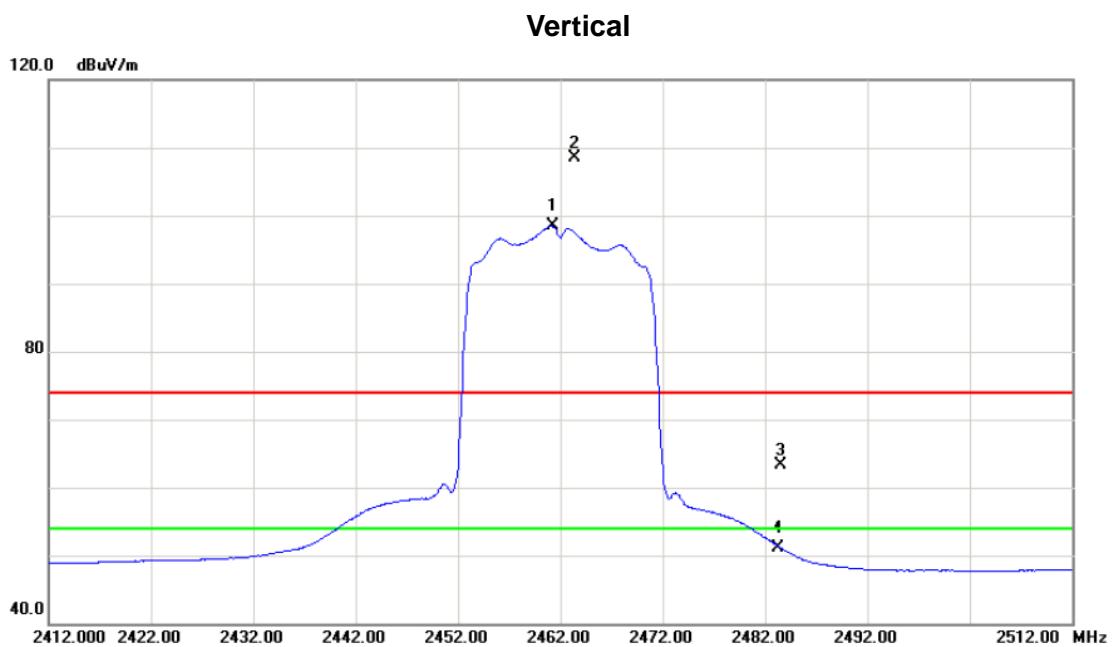
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	2436.200	68.65	33.50	102.15	54.00	48.15	AVG Fundamental frequency, no limit
2	X	2436.600	77.08	33.50	110.58	74.00	36.58	peak Fundamental frequency, no limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

Horizontal

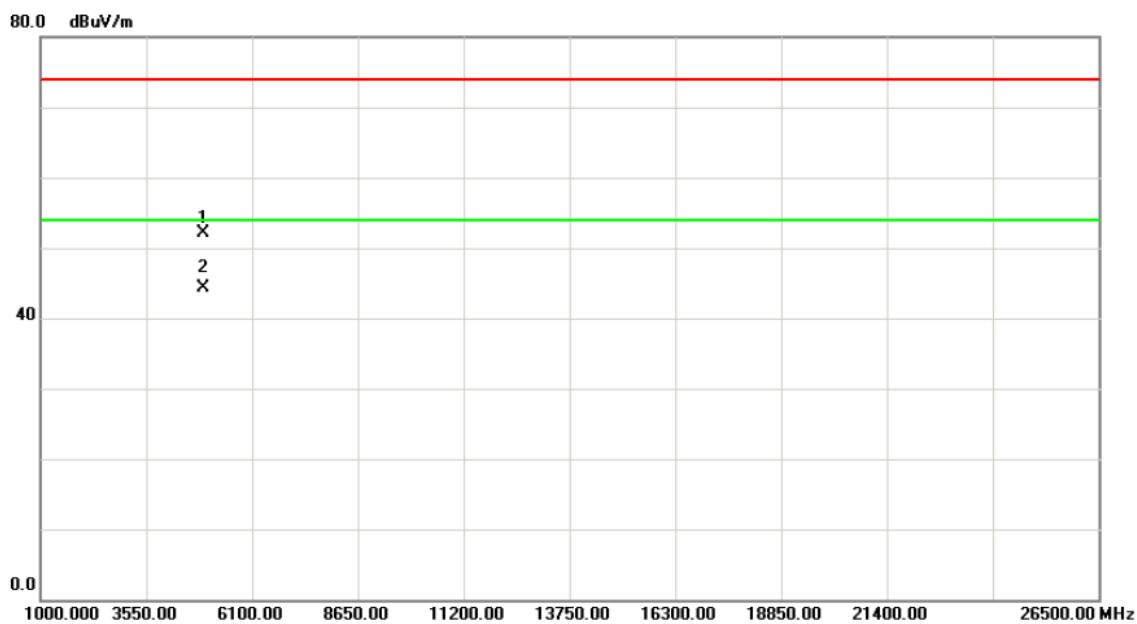
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4874.173	46.67	6.55	53.22	74.00	-20.78	peak
2	*	4874.257	38.21	6.55	44.76	54.00	-9.24	AVG

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Over Detector	Comment
1	*	2461.200	64.91	33.56	98.47	54.00	44.47	AVG Fundamental frequency, no limit
2	X	2463.400	74.85	33.57	108.42	74.00	34.42	peak Fundamental frequency, no limit
3		2483.500	29.74	33.62	63.36	74.00	-10.64	peak
4		2483.500	17.57	33.62	51.19	54.00	-2.81	AVG

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

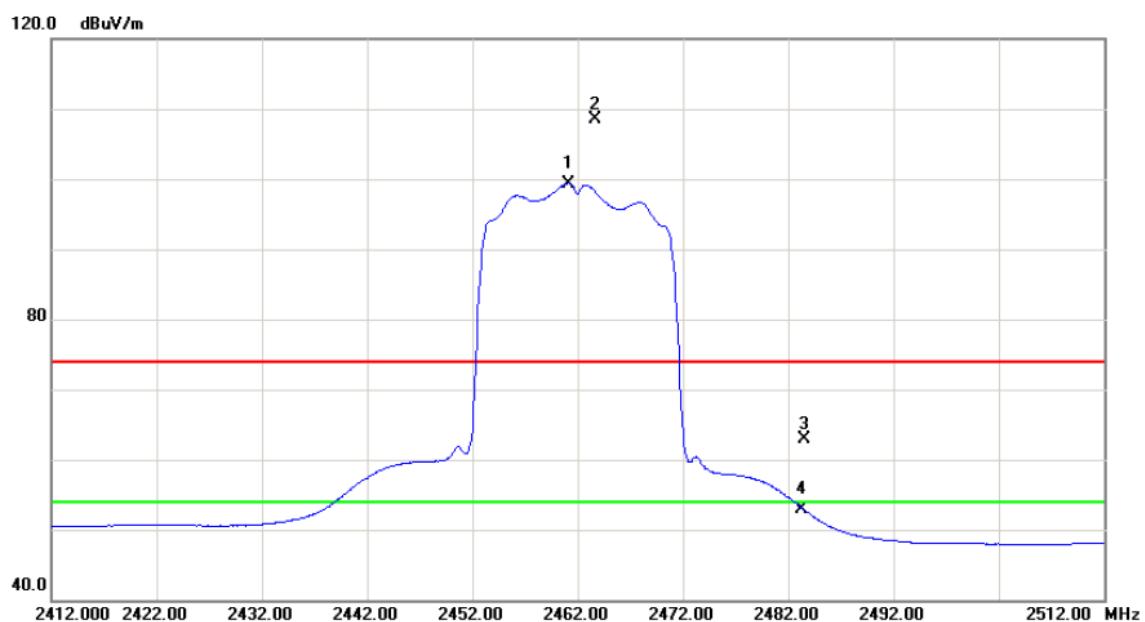
Vertical

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
MHz	dBuV		dB	dBuV/m	dBuV/m	dB			
1	4923.967	45.43	6.66	52.09	74.00	-21.91	peak		
2 *	4923.993	37.57	6.66	44.23	54.00	-9.77	AVG		

Orthogonal Axis : X

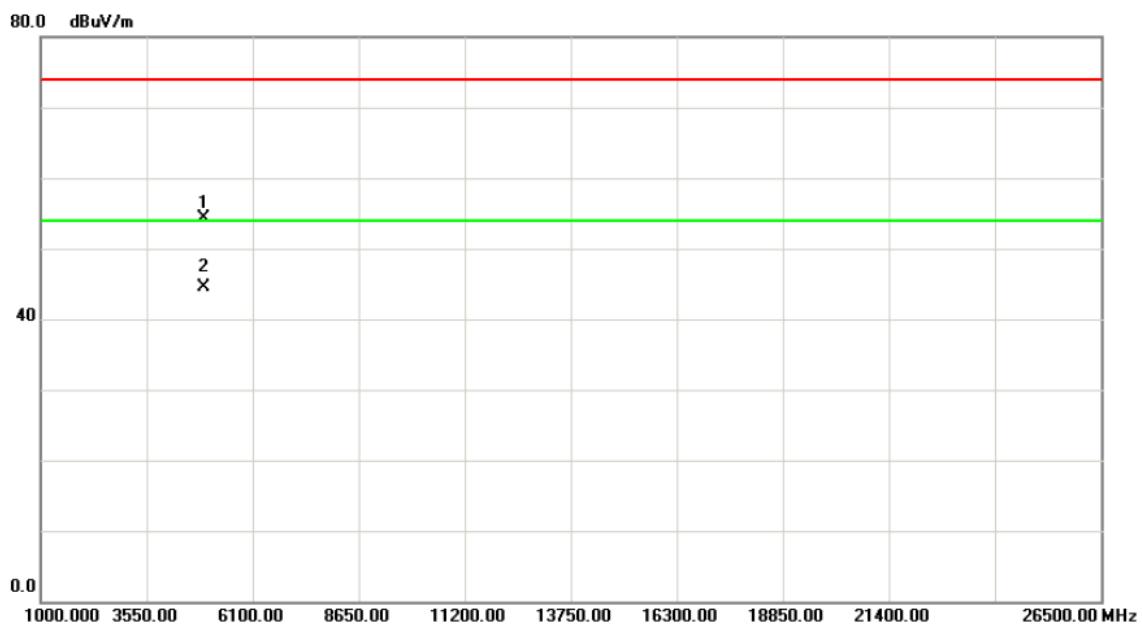
Test Mode : TX N-20M MODE 2462MHz

Horizontal



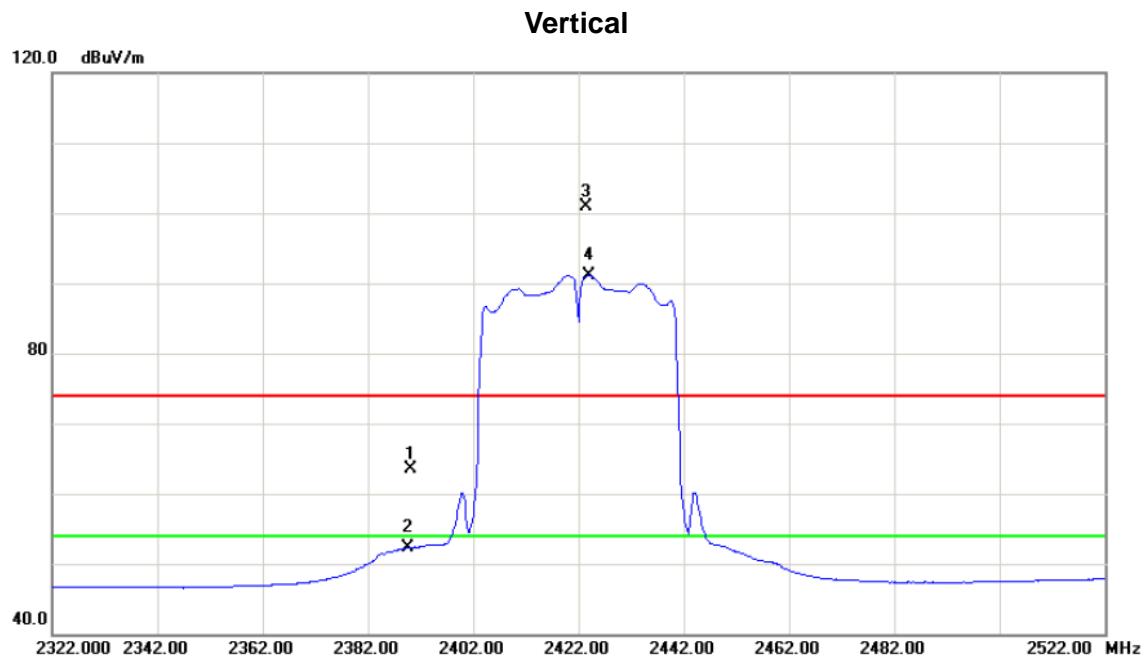
No.	Mk.	Freq. MHz	Reading Level dB _{UV}	Correct Factor dB	Measure- ment dB _{UV} /m	Limit dB	Over Detector	Comment
1	*	2461.100	65.84	33.56	99.40	54.00	45.40	AVG Fundamental frequency, no limit
2	X	2463.700	74.99	33.57	108.56	74.00	34.56	peak Fundamental frequency, no limit
3		2483.500	29.36	33.62	62.98	74.00	-11.02	peak
4		2483.500	19.24	33.62	52.86	54.00	-1.14	AVG

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

Horizontal

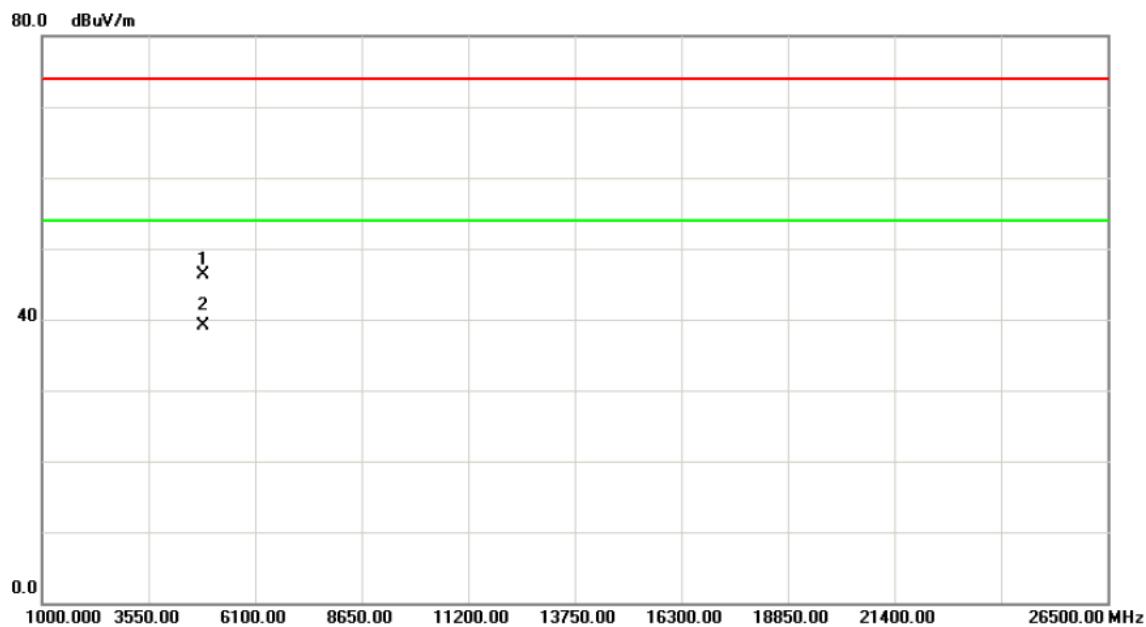
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4923.787	47.71	6.66	54.37	74.00	-19.63	peak	
2	*	4923.894	37.81	6.66	44.47	54.00	-9.53	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	30.10	33.38	63.48	74.00	-10.52	peak	
2		2390.000	18.86	33.38	52.24	54.00	-1.76	AVG	
3	X	2423.400	67.36	33.47	100.83	74.00	26.83	peak	Fundamental frequency, no limit
4	*	2424.000	57.62	33.47	91.09	54.00	37.09	AVG	Fundamental frequency, no limit

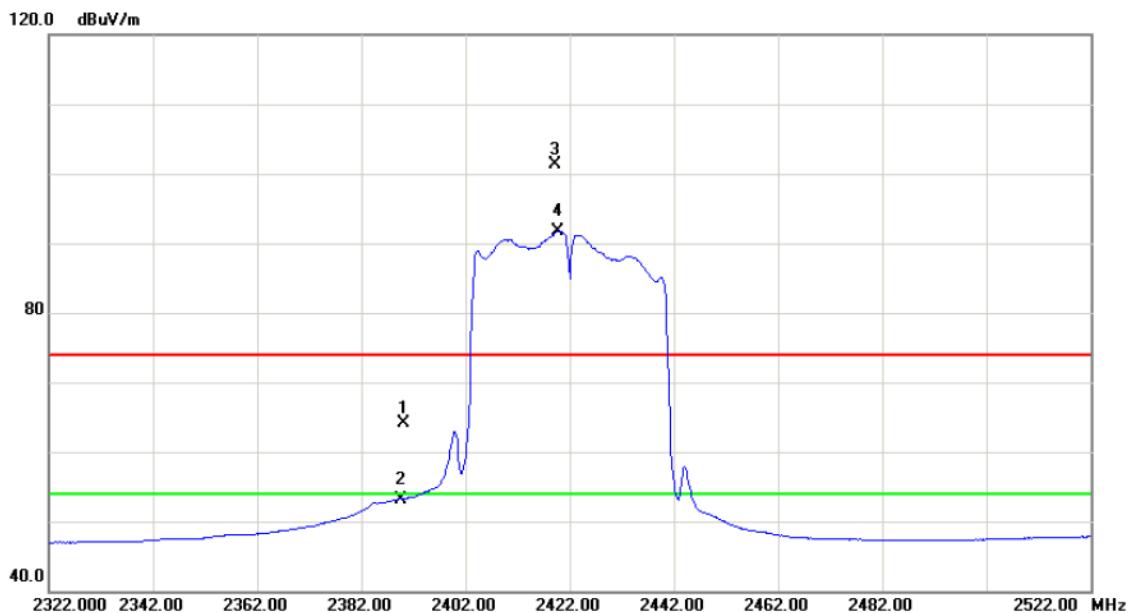
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4844.041	39.85	6.48	46.33	74.00	-27.67	peak
2	*	4844.042	32.56	6.48	39.04	54.00	-14.96	Avg

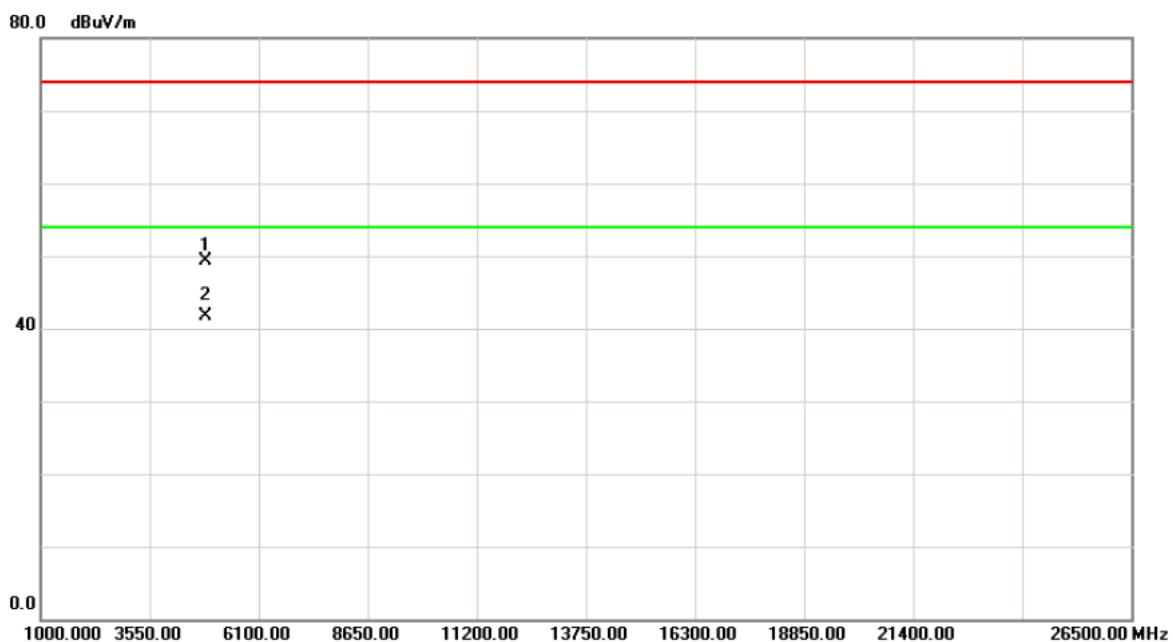
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dB _B V	dB	dB _B V/m	dB _B V/m	dB	Detector	Comment
1		2390.000	30.74	33.38	64.12	74.00	-9.88	peak	
2		2390.000	19.81	33.38	53.19	54.00	-0.81	Avg	
3	X	2419.200	67.92	33.46	101.38	74.00	27.38	peak	Fundamental frequency, no limit
4	*	2419.600	58.21	33.46	91.67	54.00	37.67	Avg	Fundamental frequency, no limit

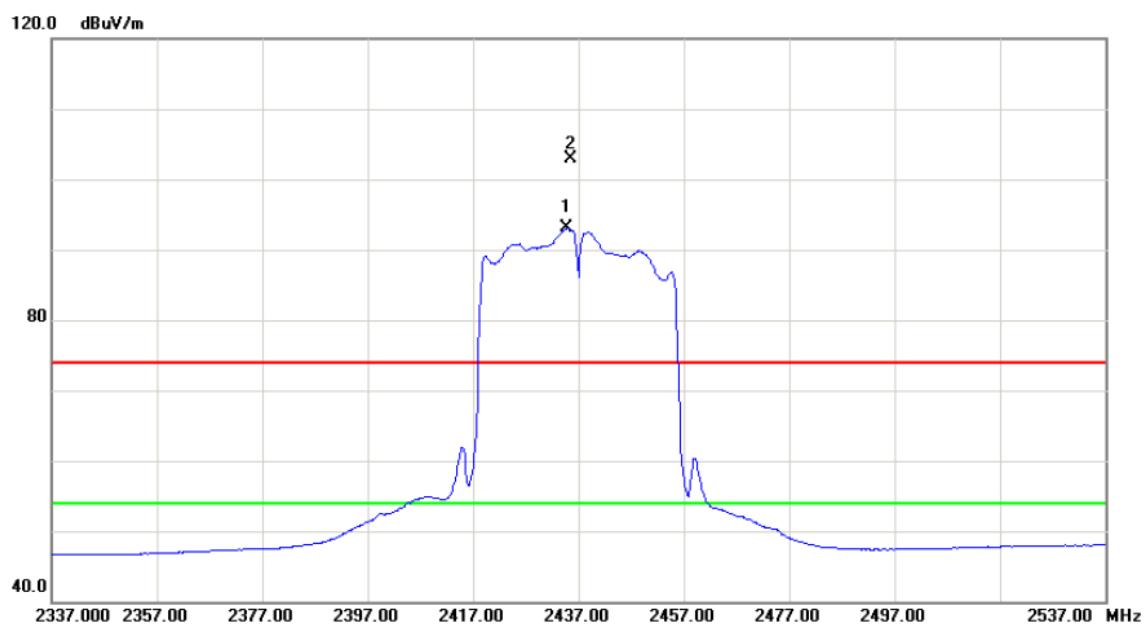
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

Horizontal

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1		4844.040	42.83	6.48	49.31	74.00	-24.69 peak
2	*	4844.110	35.17	6.48	41.65	54.00	-12.35 AVG

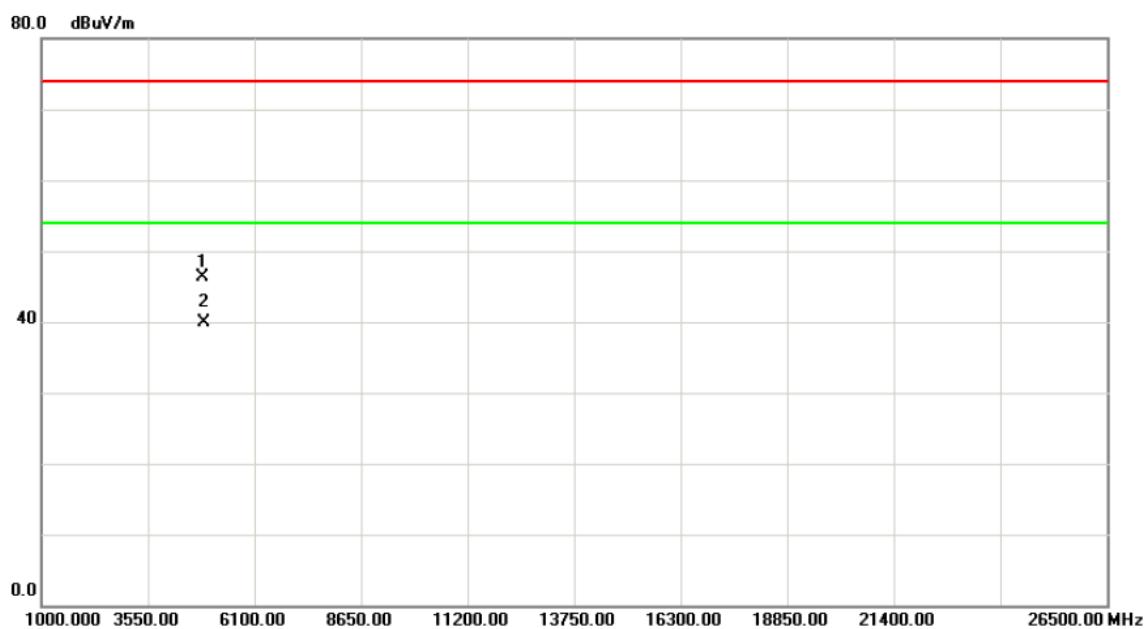
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dB _{uV}	dB	dB _{uV/m}	dB _{uV/m}	dB	Detector	Comment
1	*	2434.800	59.52	33.50	93.02	54.00	39.02	Avg	Fundamental frequency, no limit
2	X	2435.600	69.41	33.50	102.91	74.00	28.91	peak	Fundamental frequency, no limit

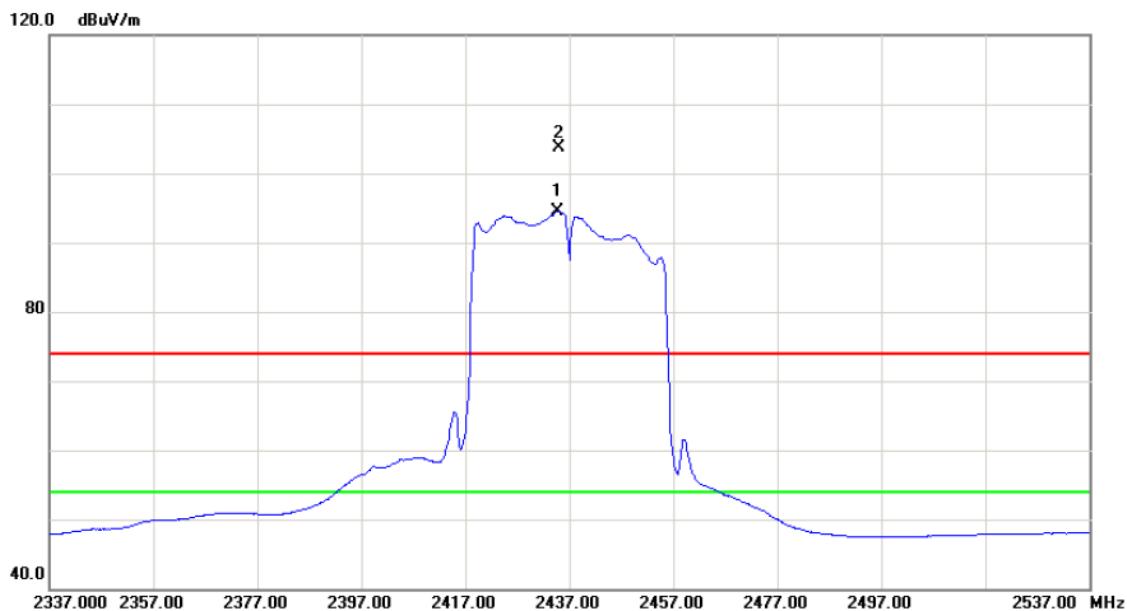
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

Vertical

No.	Mk.	Freq. MHz	Reading Level dB _{uV}	Correct Factor dB	Measure- ment dB _{uV/m}	Limit dB _{uV/m}	Over dB	Detector	Comment
1		4873.952	39.81	6.55	46.36	74.00	-27.64	peak	
2	*	4873.961	33.26	6.55	39.81	54.00	-14.19	AVG	

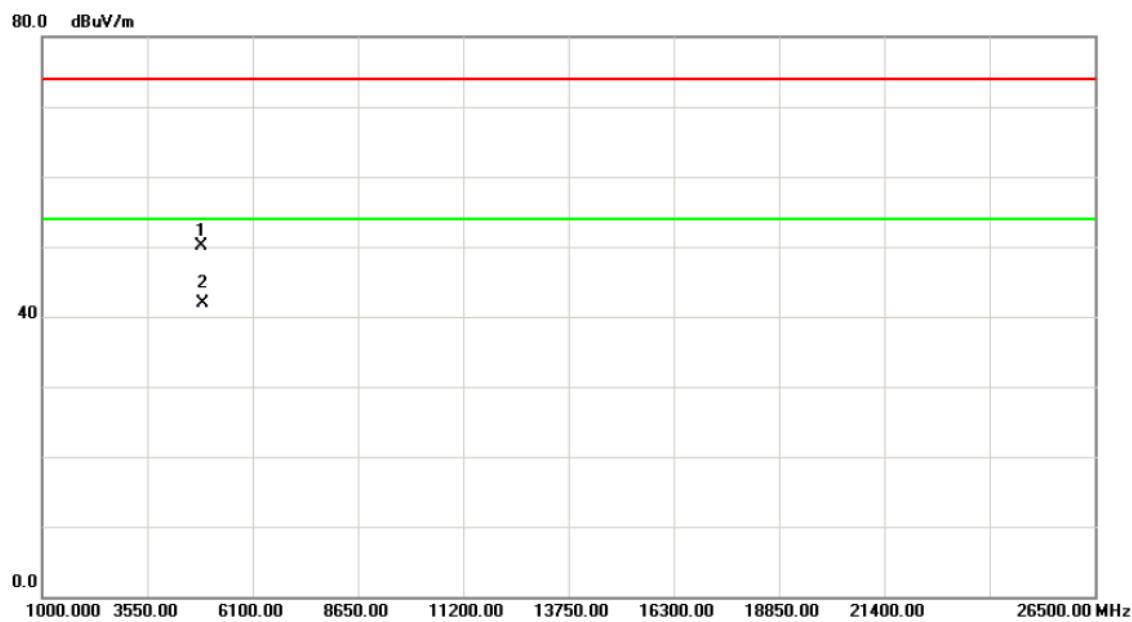
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	2434.800	60.95	33.50	94.45	54.00	40.45	AVG Fundamental frequency, no limit
2	X	2435.000	70.18	33.50	103.68	74.00	29.68	peak Fundamental frequency, no limit

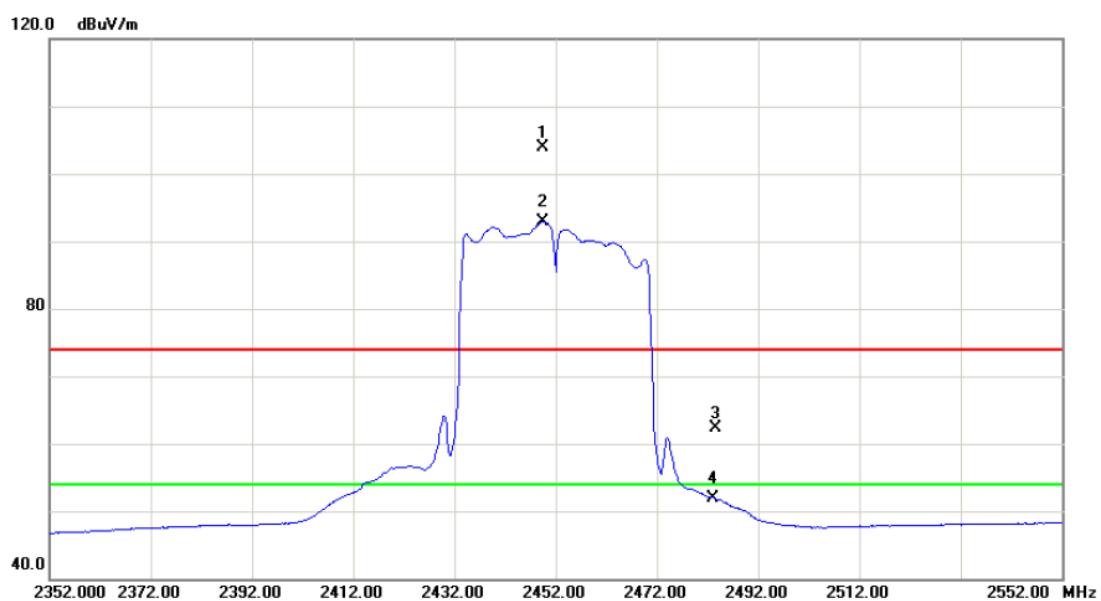
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4874.170	43.61	6.55	50.16	74.00	-23.84	peak
2	*	4874.170	35.27	6.55	41.82	54.00	-12.18	AVG

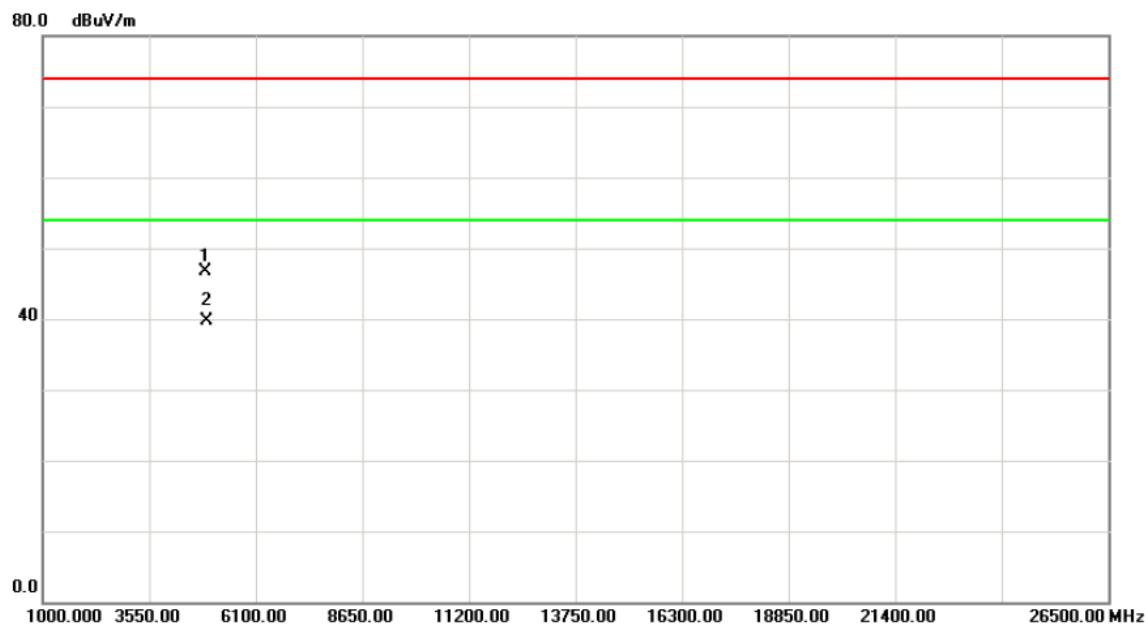
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Over Detector	Comment
1	X	2449.400	70.33	33.53	103.86	74.00	29.86	peak Fundamental frequency, no limit
2	*	2449.400	59.32	33.53	92.85	54.00	38.85	AVG Fundamental frequency, no limit
3		2483.500	28.58	33.62	62.20	74.00	-11.80	peak
4		2483.500	18.21	33.62	51.83	54.00	-2.17	AVG

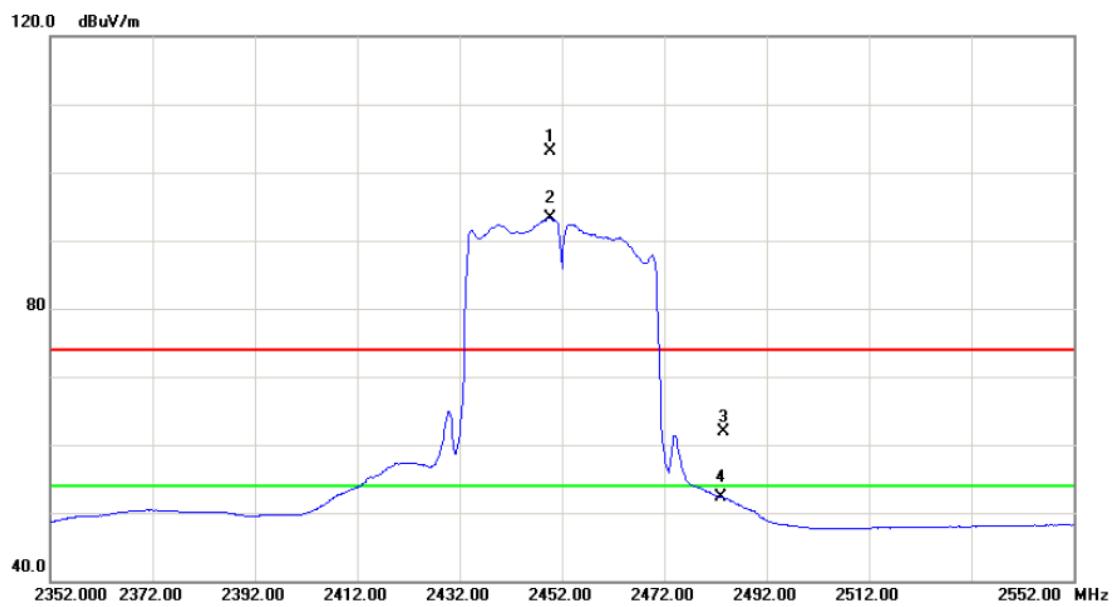
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Vertical

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Over Detector	Comment
1		4903.851	40.01	6.61	46.62	74.00	-27.38	peak
2	*	4903.852	33.12	6.61	39.73	54.00	-14.27	Avg

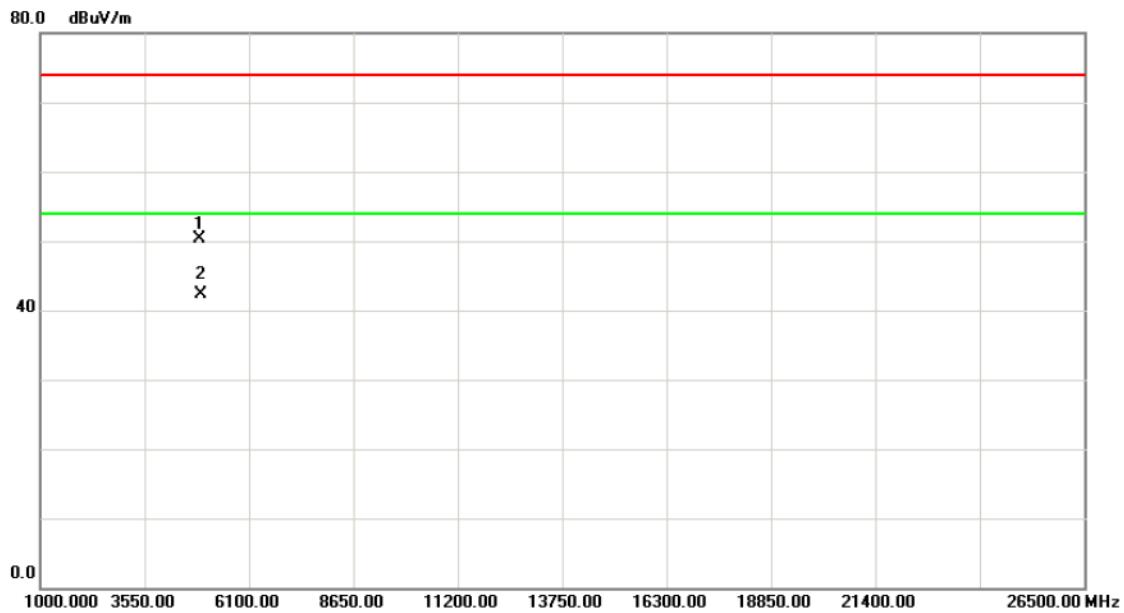
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	
1	X	2449.600	69.54	33.53	103.07	74.00	29.07	peak Fundamental frequency, no limit
2	*	2449.600	59.70	33.53	93.23	54.00	39.23	AVG Fundamental frequency, no limit
3		2483.500	28.22	33.62	61.84	74.00	-12.16	peak
4		2483.500	18.58	33.62	52.20	54.00	-1.80	AVG

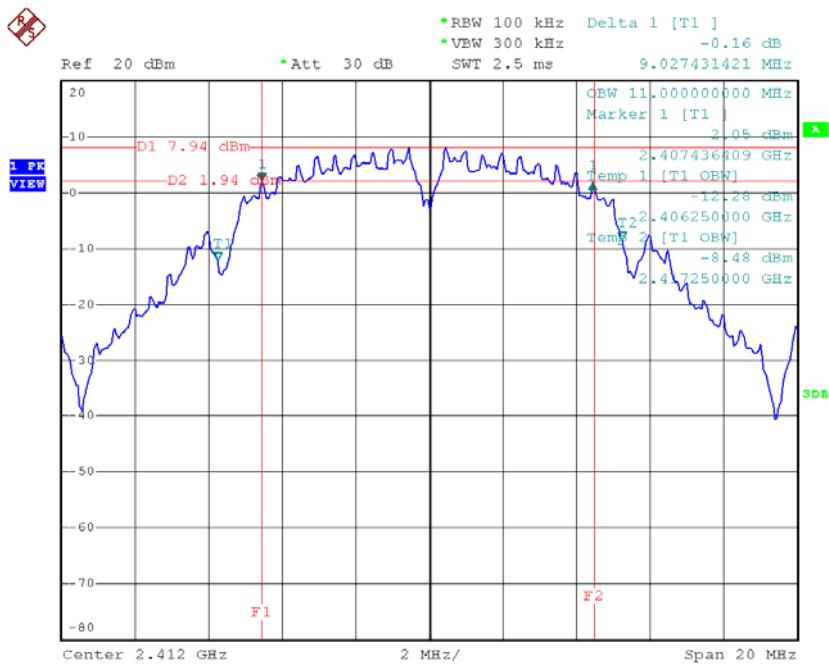
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4904.020	43.77	6.61	50.38	74.00	-23.62	peak
2	*	4904.100	35.65	6.61	42.26	54.00	-11.74	AVG

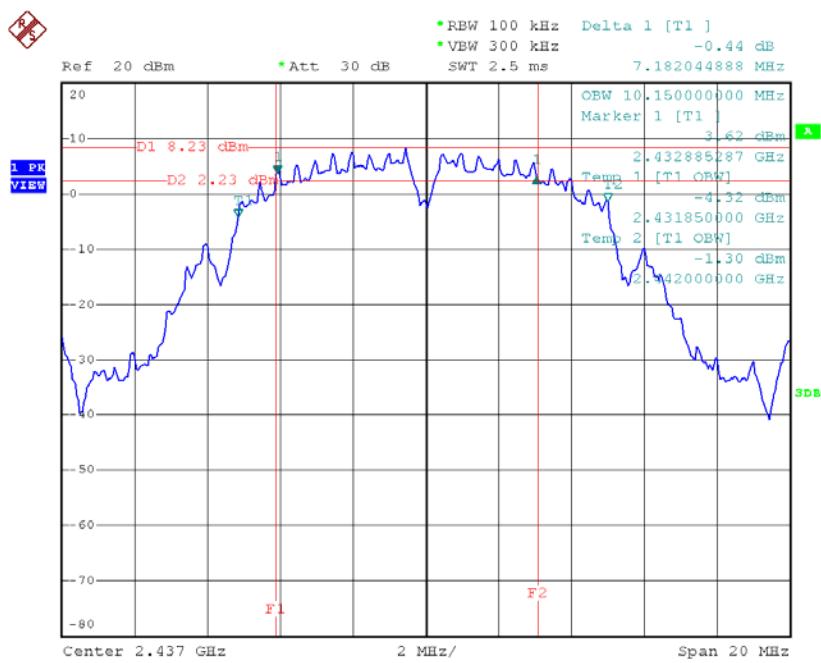


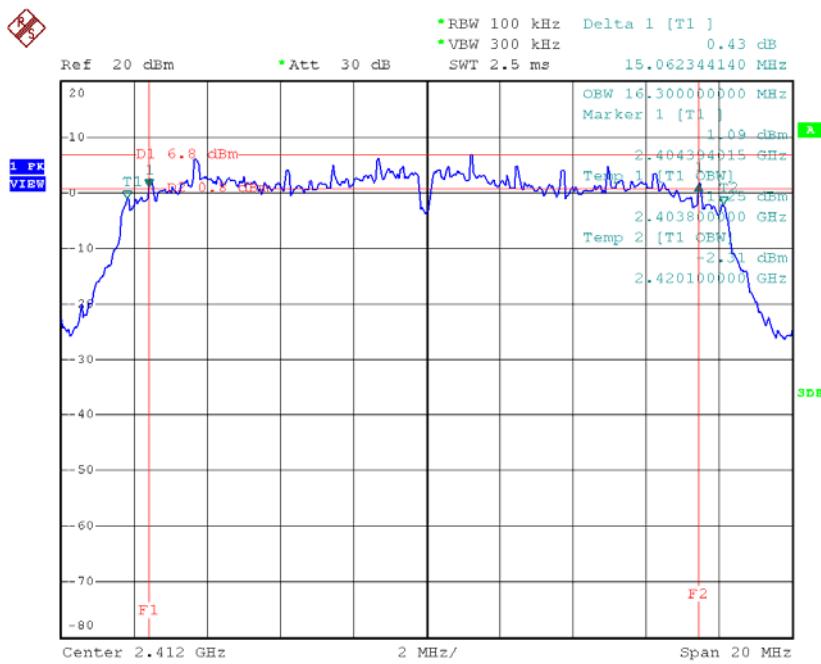
ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11**TX CH 01**

Date: 19.JUN.2014 09:29:18

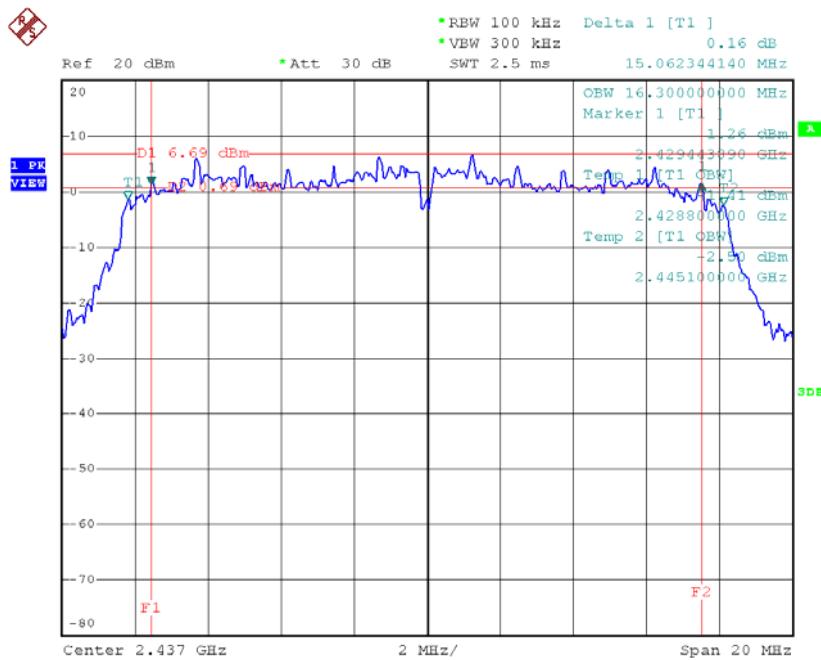
TX CH 06



Test Mode: TX G Mode_CH01/06/11**TX CH 01**

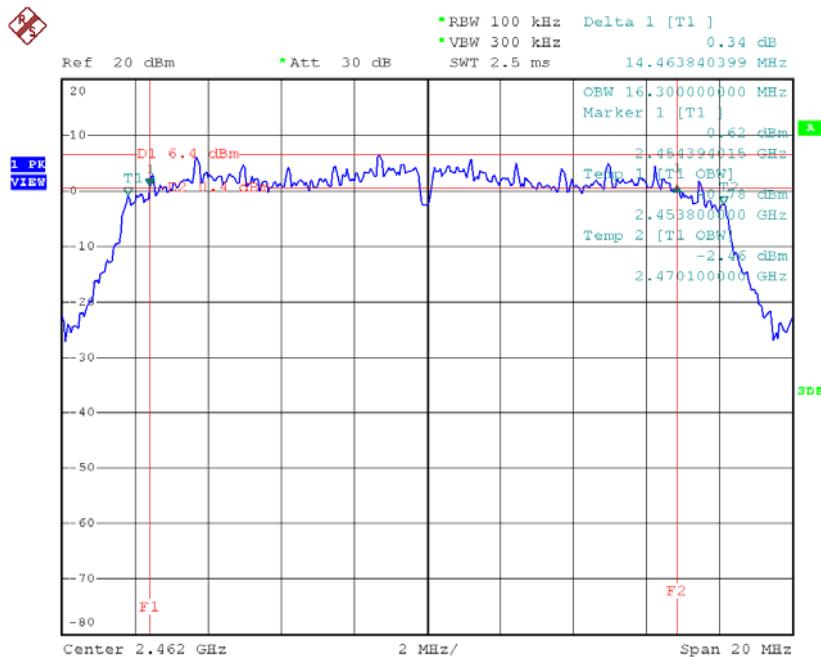
Date: 19.JUN.2014 10:05:21

TX CH 06

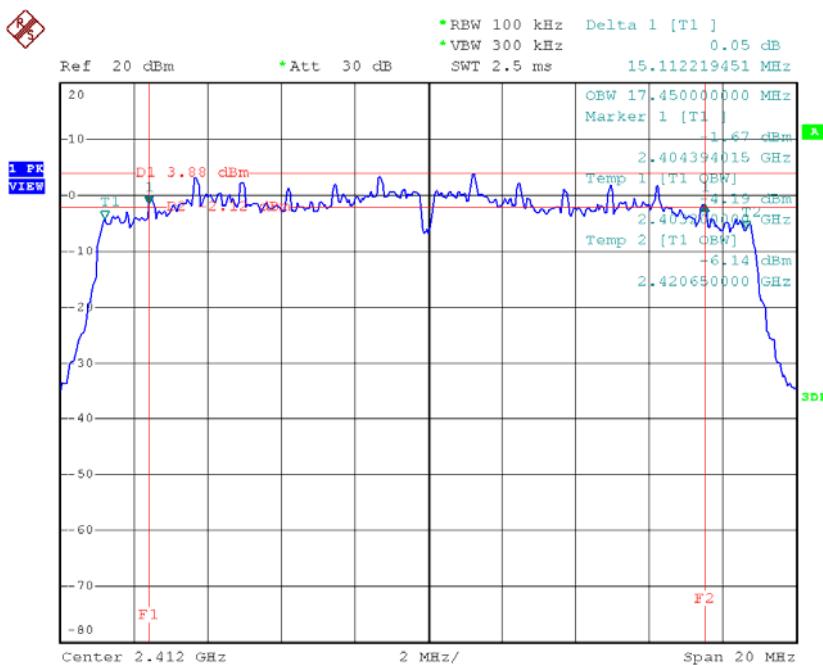


Date: 19.JUN.2014 10:14:31

TX CH 11

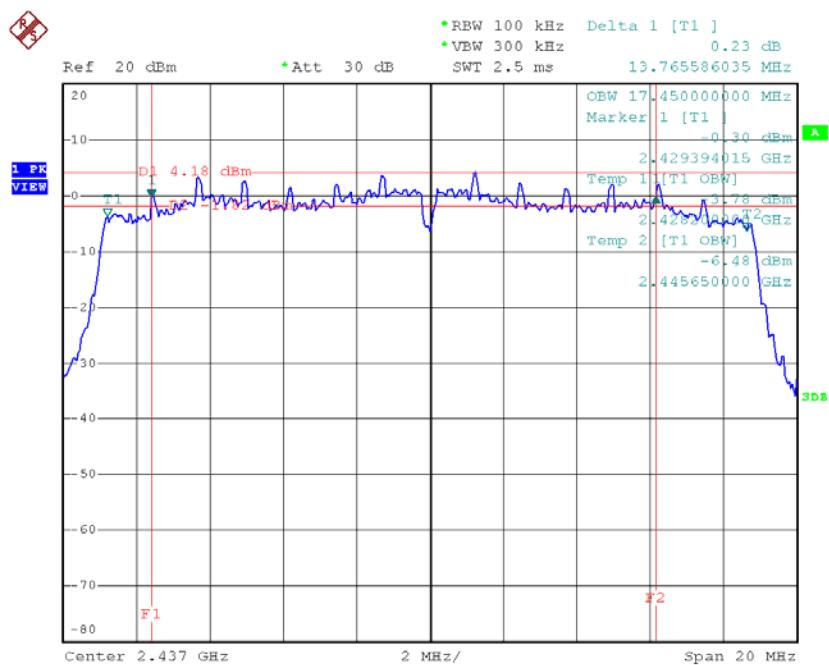


Date: 19.JUN.2014 10:16:26

Test Mode : TX N-20MHz Mode_CH01/06/11_ANT 0**TX CH 01**

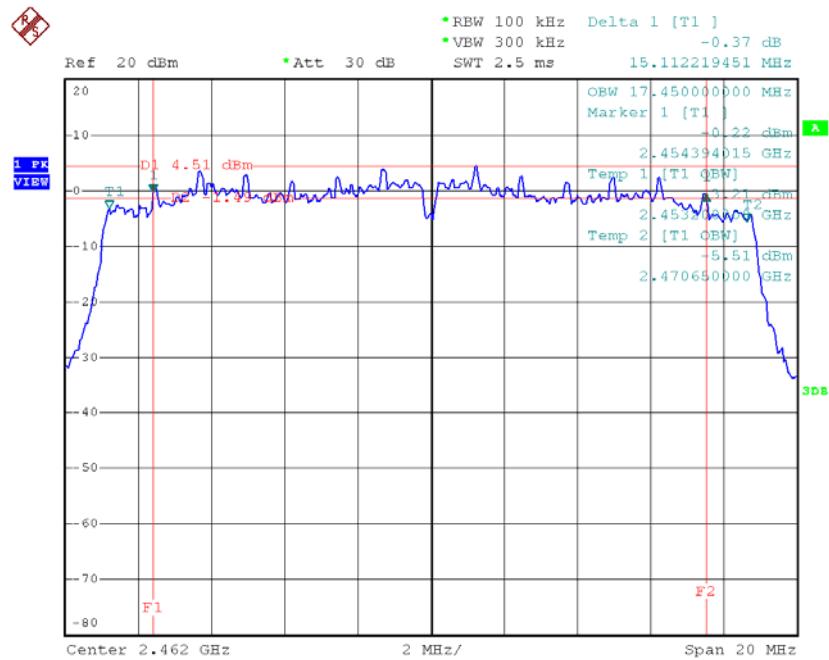
Date: 19.JUN.2014 10:21:07

TX CH 06



Date: 19.JUN.2014 10:34:59

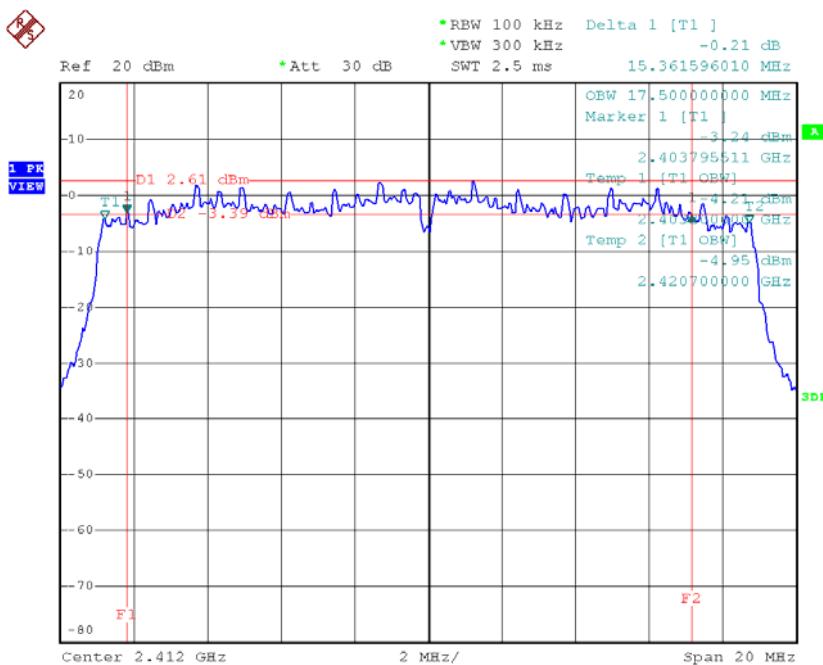
TX CH 11



Date: 19.JUN.2014 10:39:14

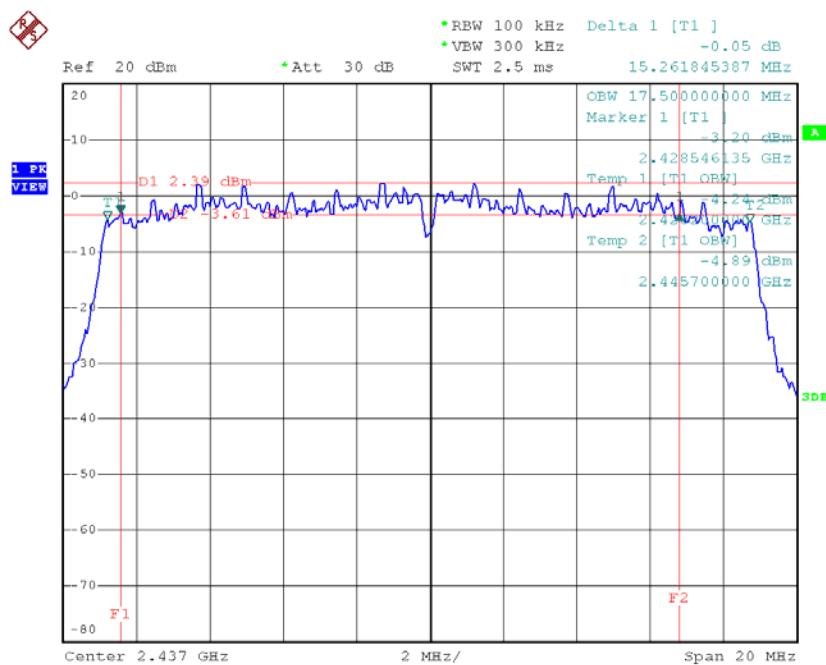
Test Mode : TX N-20MHz Mode_CH01/06/11_ANT 1

TX CH 01



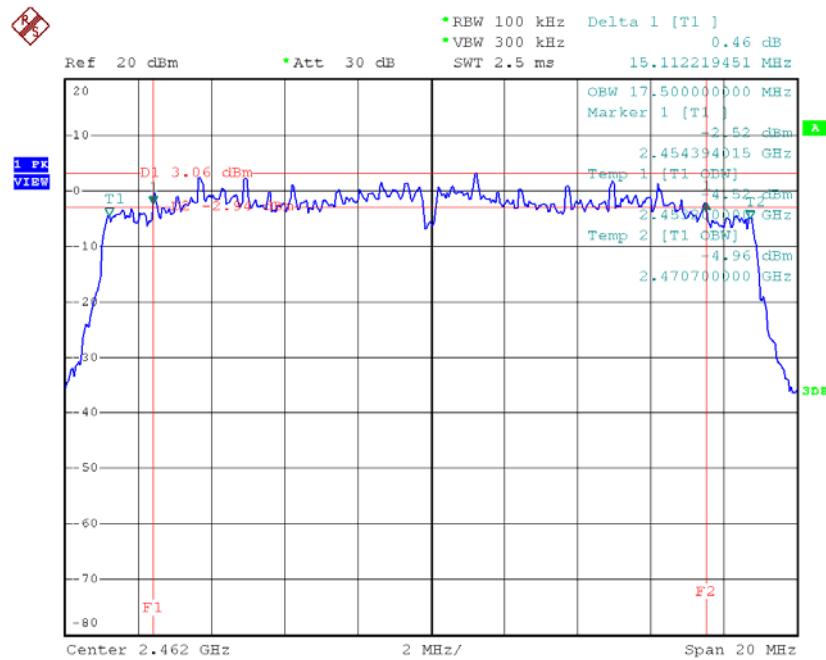
Date: 19.JUN.2014 11:07:08

TX CH 06



Date: 19.JUN.2014 11:09:12

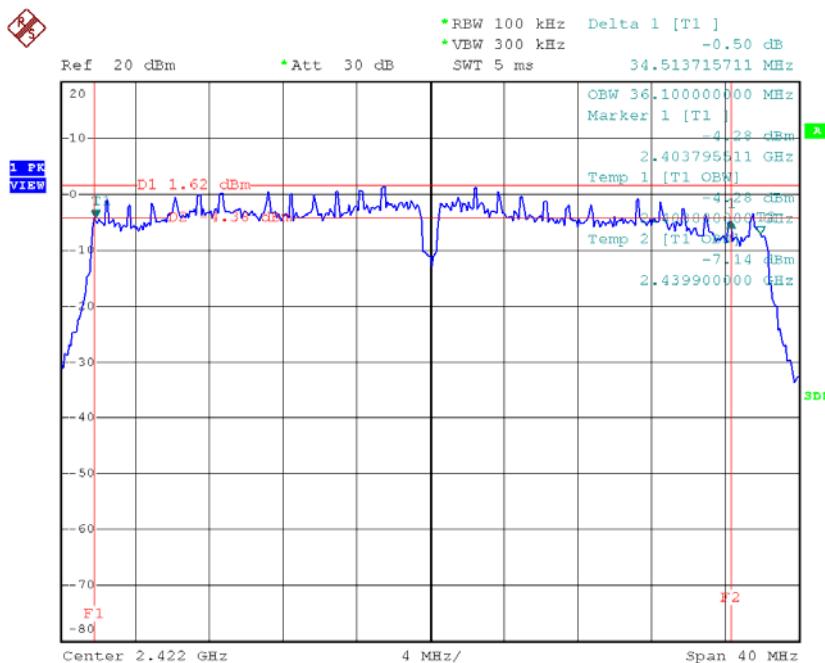
TX CH 11



Date: 19.JUN.2014 11:10:40

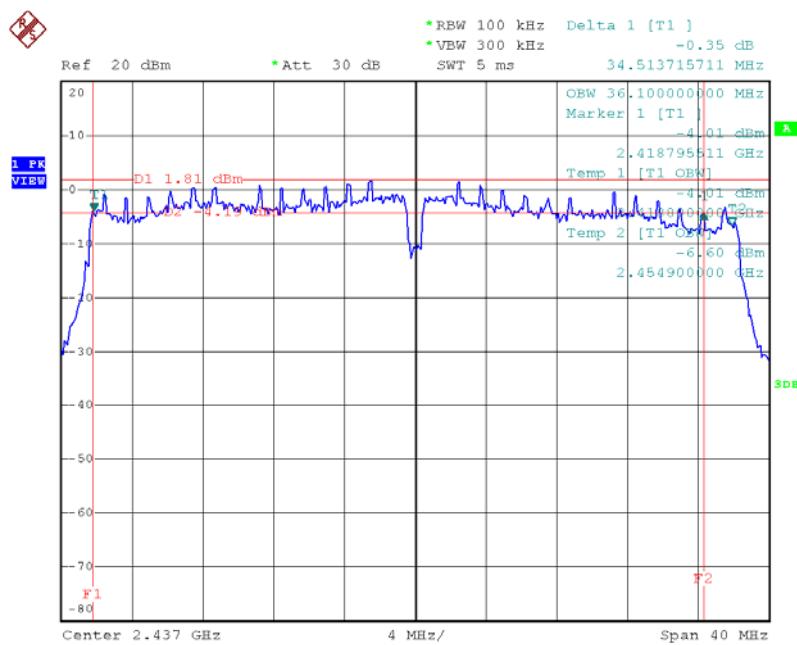
Test Mode : TX N-40MHz Mode_CH03/06/09_ANT 0

TX CH 03



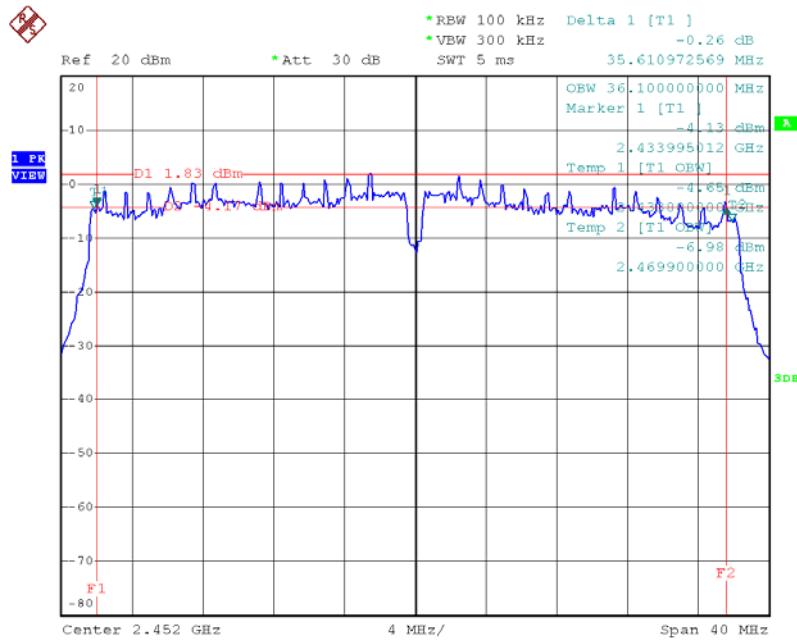
Date: 19.JUN.2014 10:43:09

TX CH 06



Date: 19.JUN.2014 10:47:25

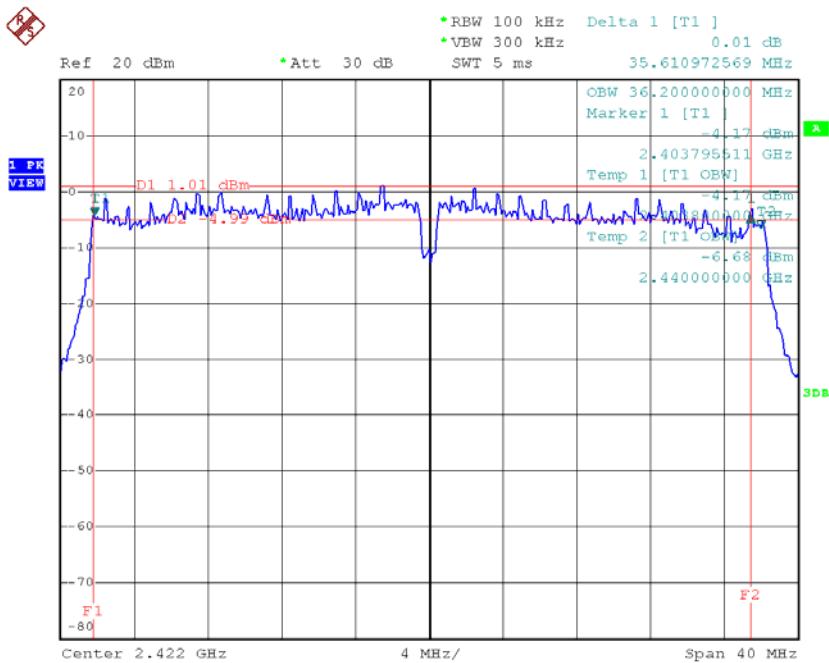
TX CH 09



Date: 19.JUN.2014 10:51:02

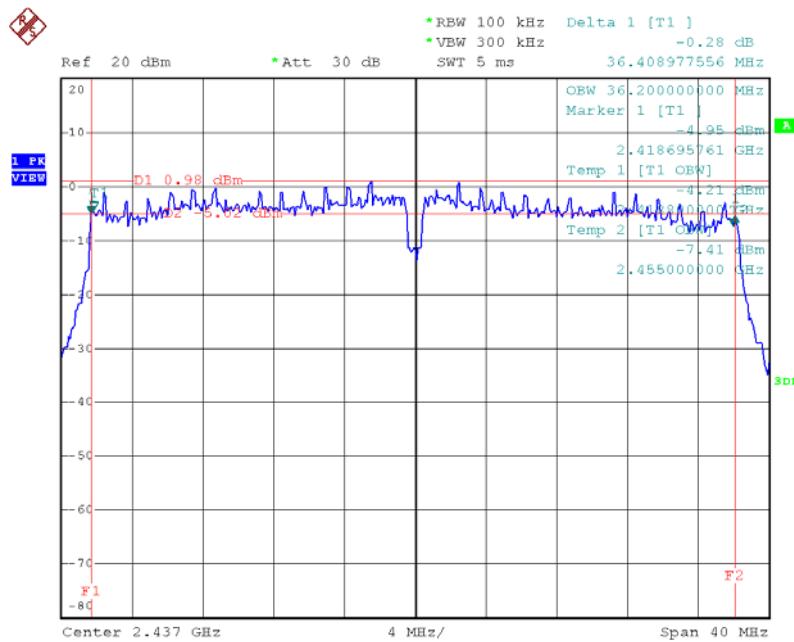
Test Mode : TX N-40MHz Mode_CH03/06/09_ANT 1

TX CH 03



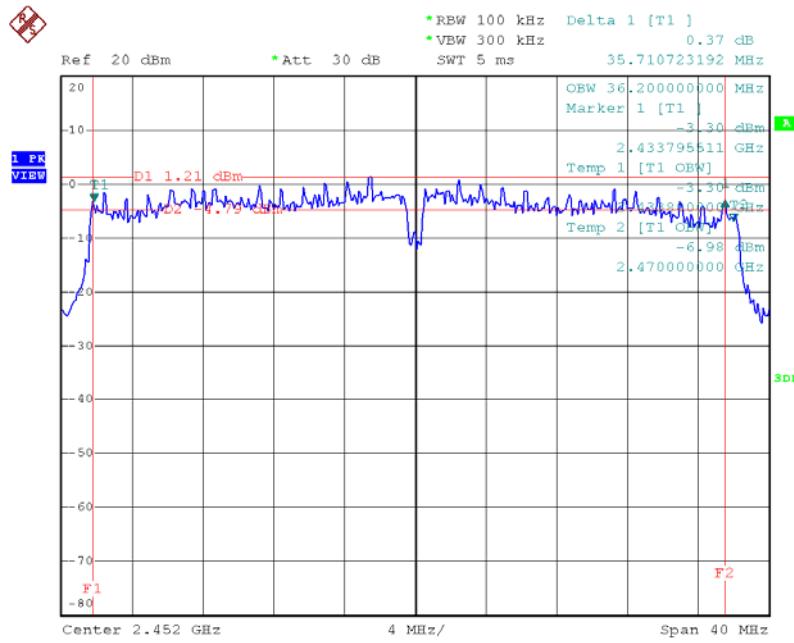
Date: 19.JUN.2014 11:04:21

TX CH 06



Date: 19.JUN.2014 11:02:14

TX CH 09



Date: 19.JUN.2014 10:59:44



ATTACHMENT F - MAXIMUM OUTPUT POWER

**Test Mode : TX B Mode**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	21.30	30	1
CH06	2437	21.20	30	1
CH11	2462	21.50	30	1

Test Mode : TX G Mode

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	20.30	30	1
CH06	2437	21.80	30	1
CH11	2462	21.40	30	1

**Test Mode : TX N-20M Mode_ANT 0**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	20.40	30	1
CH06	2437	23.20	30	1
CH11	2462	21.40	30	1

Test Mode : TX N-20M Mode_ANT 1

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	20.10	30	1
CH06	2437	22.90	30	1
CH11	2462	21.20	30	1

Test Mode : TX N-20M Mode_Total

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	23.26	30	1
CH06	2437	26.06	30	1
CH11	2462	24.31	30	1

**Test Mode : TX N-40M Mode_ANT 0**

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	17.40	30	1
CH06	2437	20.50	30	1
CH09	2452	18.60	30	1

Test Mode : TX N-40M Mode_ANT 1

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	17.20	30	1
CH06	2437	20.30	30	1
CH09	2452	17.10	30	1

Test Mode : TX N-40M Mode_Total

Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	20.31	30	1
CH06	2437	23.41	30	1
CH09	2452	20.92	30	1

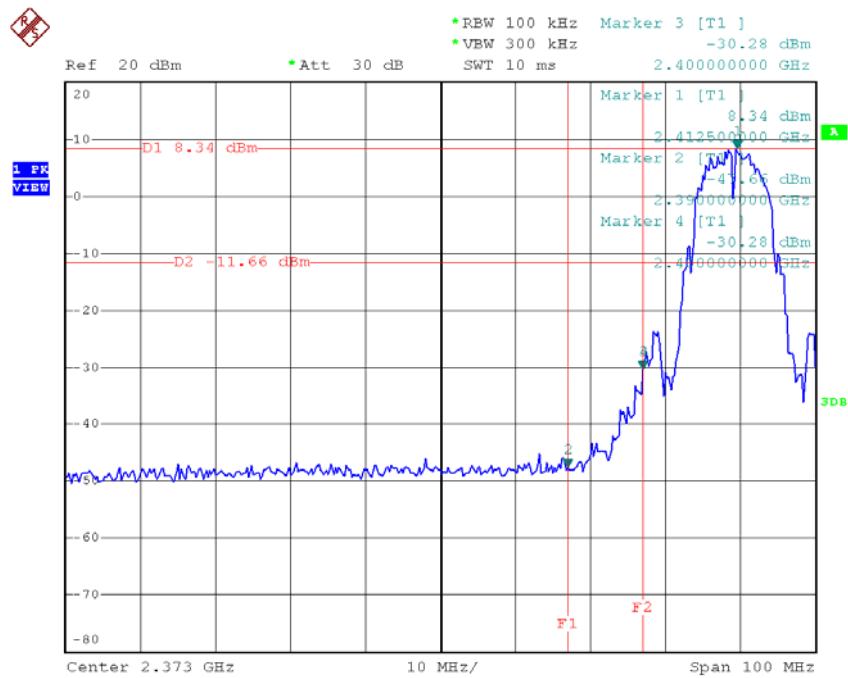


ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION



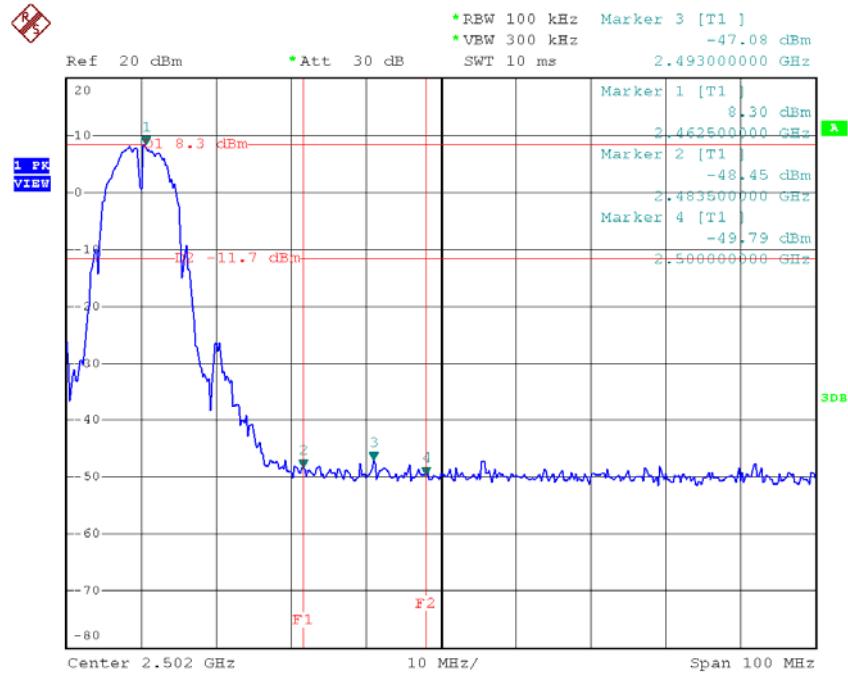
Test Mode :	TX B Mode
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TX B mode CH01



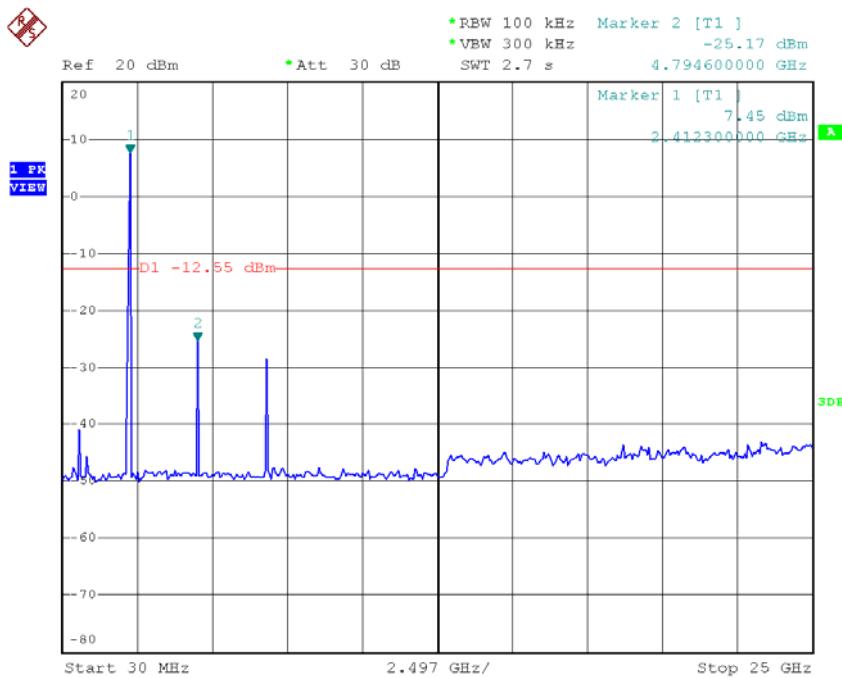
Date: 19.JUN.2014 10:12:16

TX B mode CH11



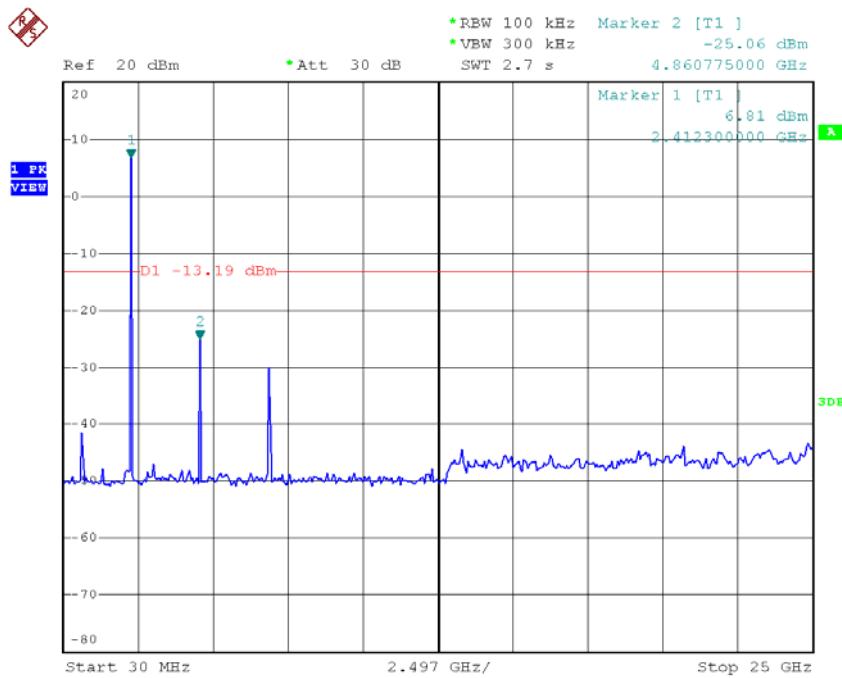
Date: 19.JUN.2014 10:00:21

TX B mode CH01 (10 Harmonic of the frequency)

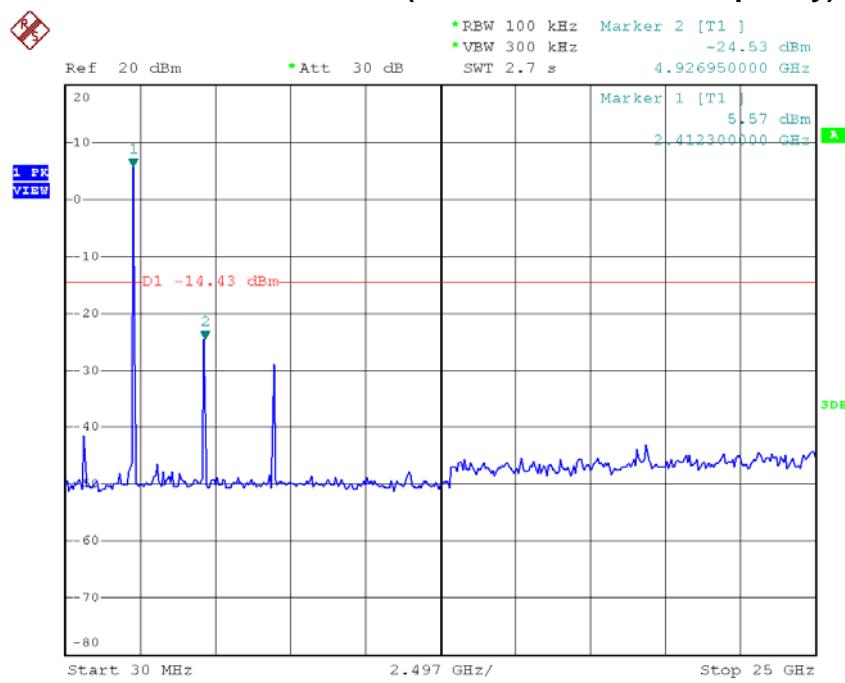


Date: 19.JUN.2014 09:20:16

TX B mode CH06 (10 Harmonic of the frequency)



Date: 19.JUN.2014 09:42:42

TX B mode CH11 (10 Harmonic of the frequency)

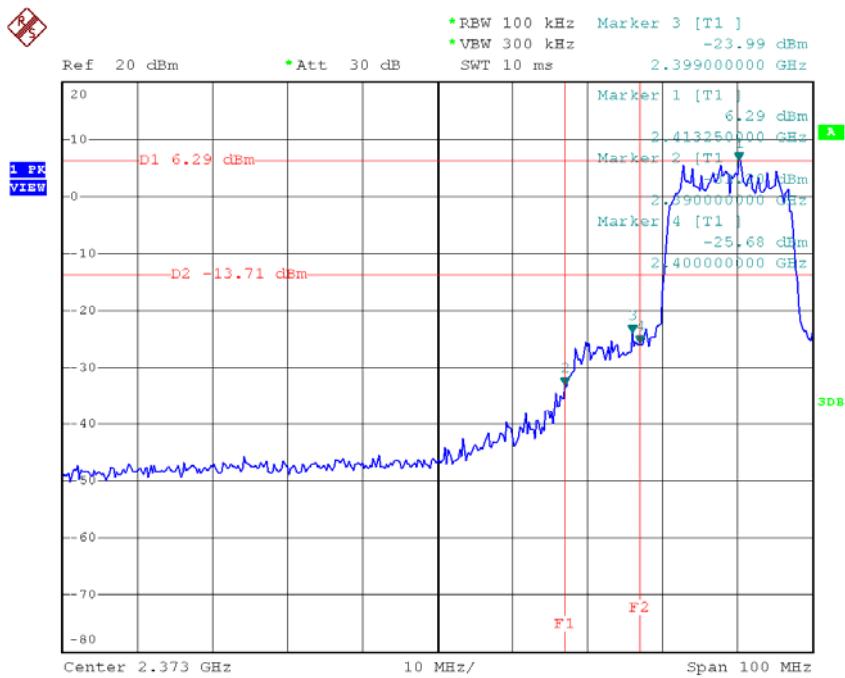
Date: 19.JUN.2014 11:41:04



Test Mode :	TX G Mode
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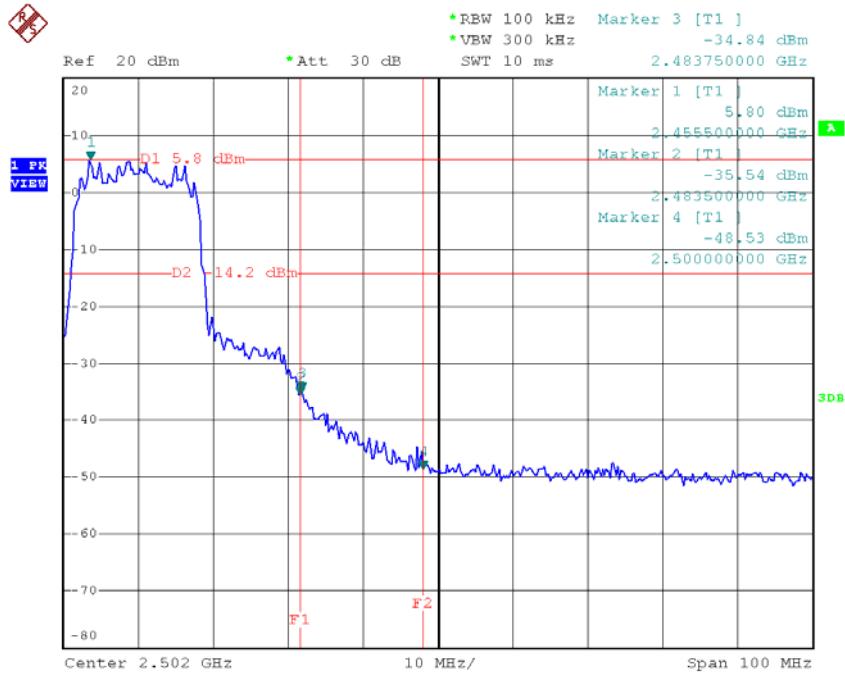


TX G mode CH01



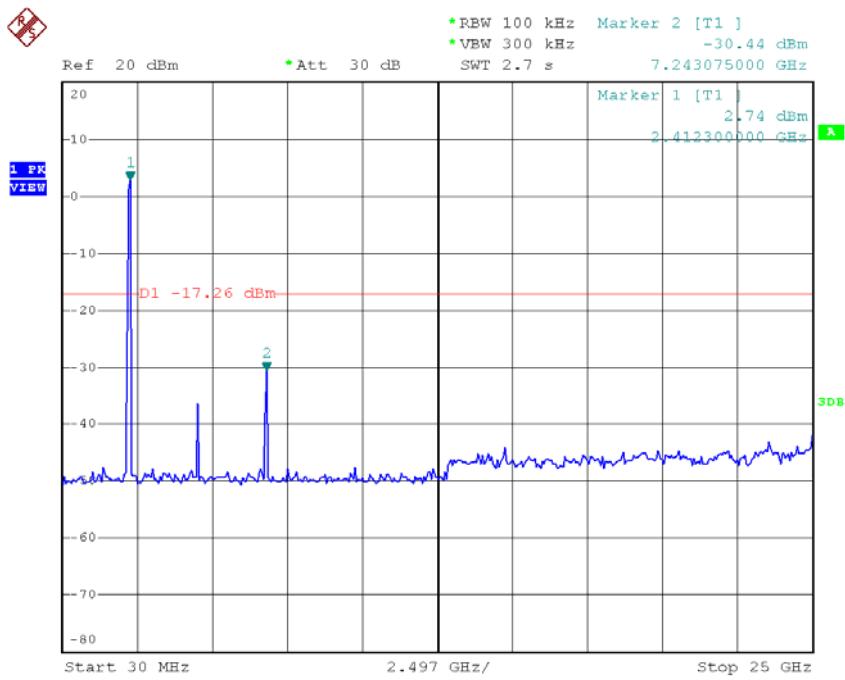
Date: 19.JUN.2014 10:11:21

TX G mode CH11



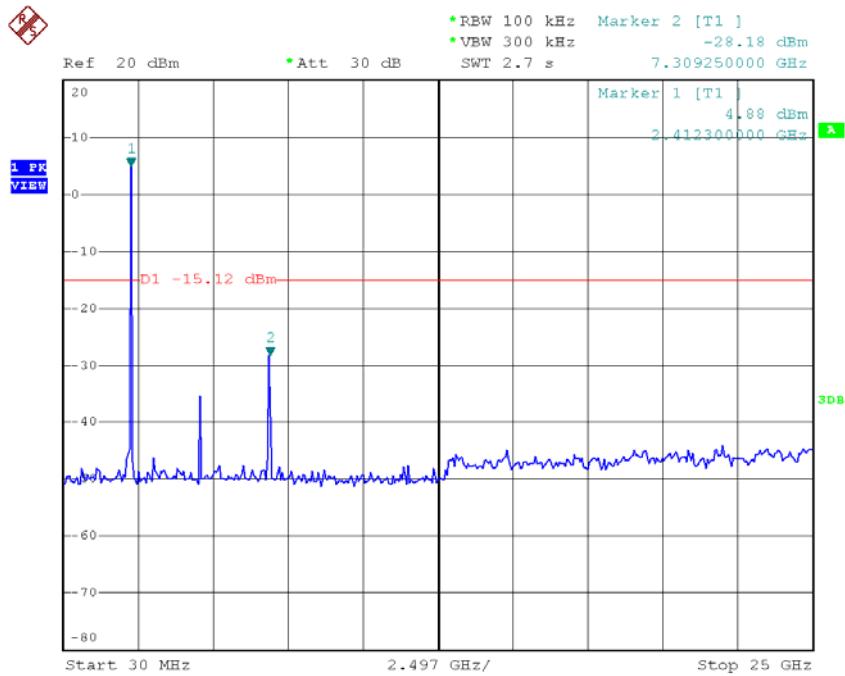
Date: 19.JUN.2014 10:17:15

TX G mode CH01 (10 Harmonic of the frequency)

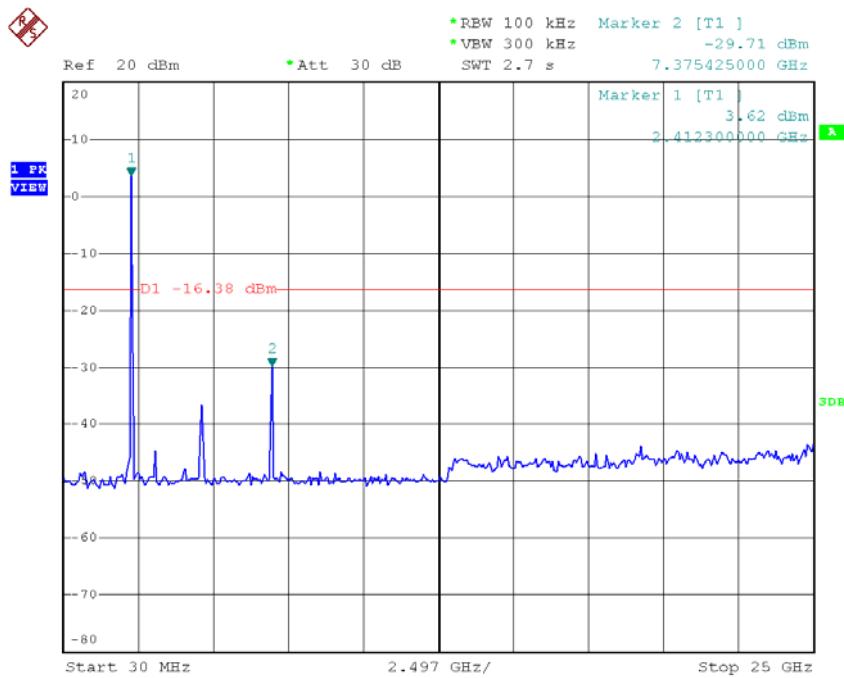


Date: 19.JUN.2014 10:04:56

TX G mode CH06 (10 Harmonic of the frequency)



Date: 19.JUN.2014 10:13:56

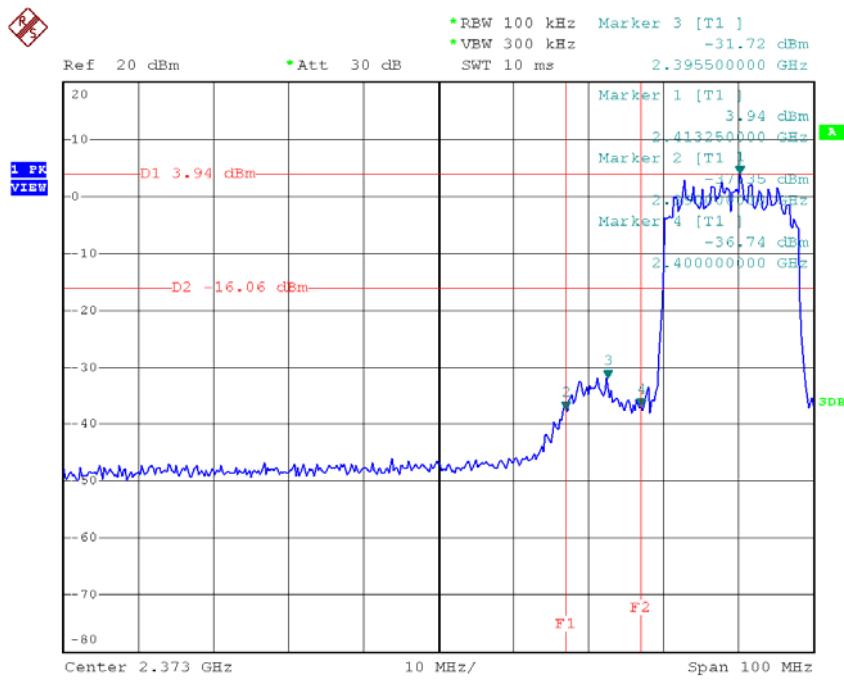
TX G mode CH11 (10 Harmonic of the frequency)

Date: 19.JUN.2014 10:15:43



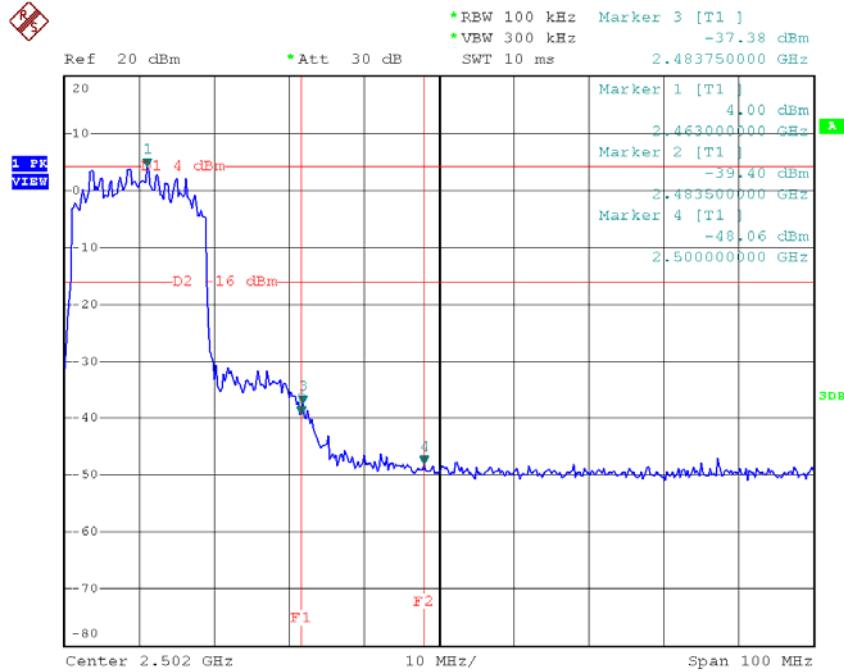
Test Mode :	TX N-20M Mode_ANT 0
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TX HT20 mode CH01



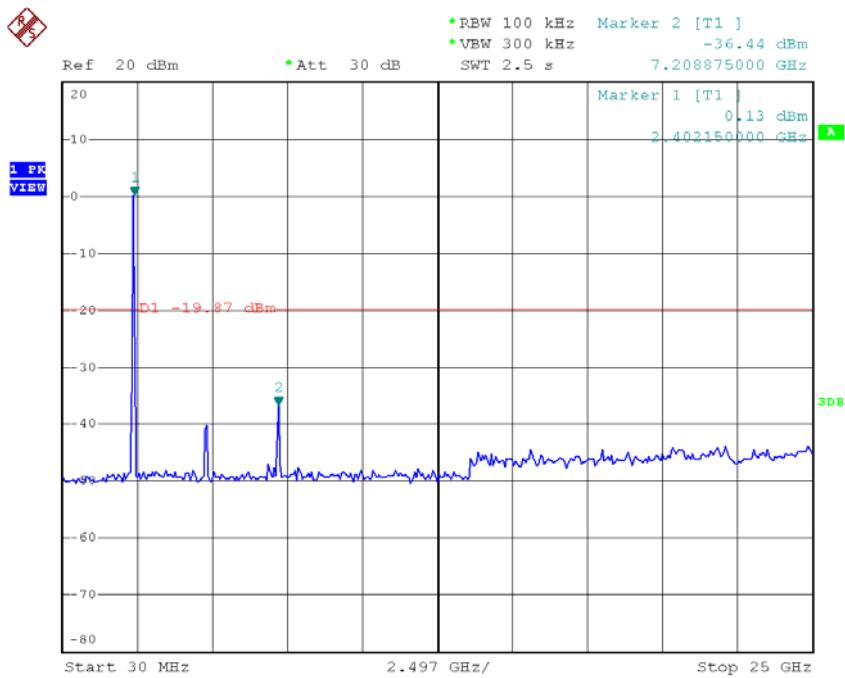
Date: 19.JUN.2014 10:21:34

TX HT20 mode CH11



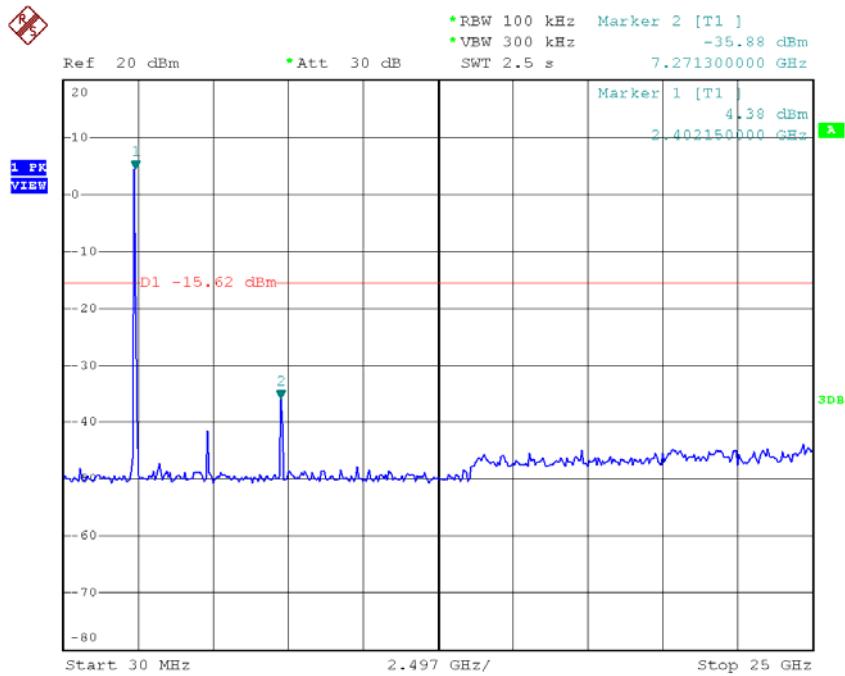
Date: 19.JUN.2014 10:39:50

TX HT20 mode CH01 (10 Harmonic of the frequency)

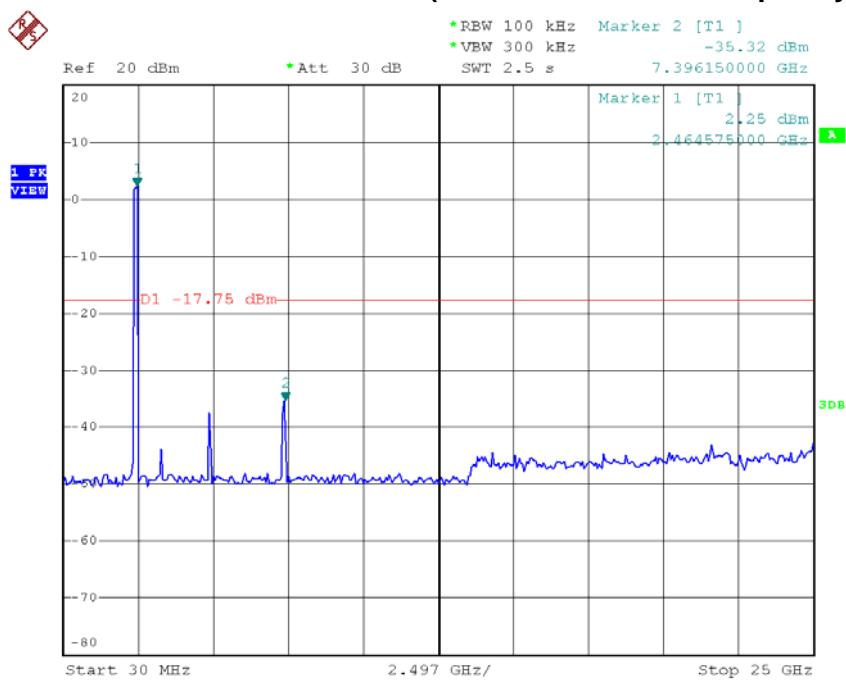


Date: 19.JUN.2014 10:20:32

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 19.JUN.2014 10:34:17

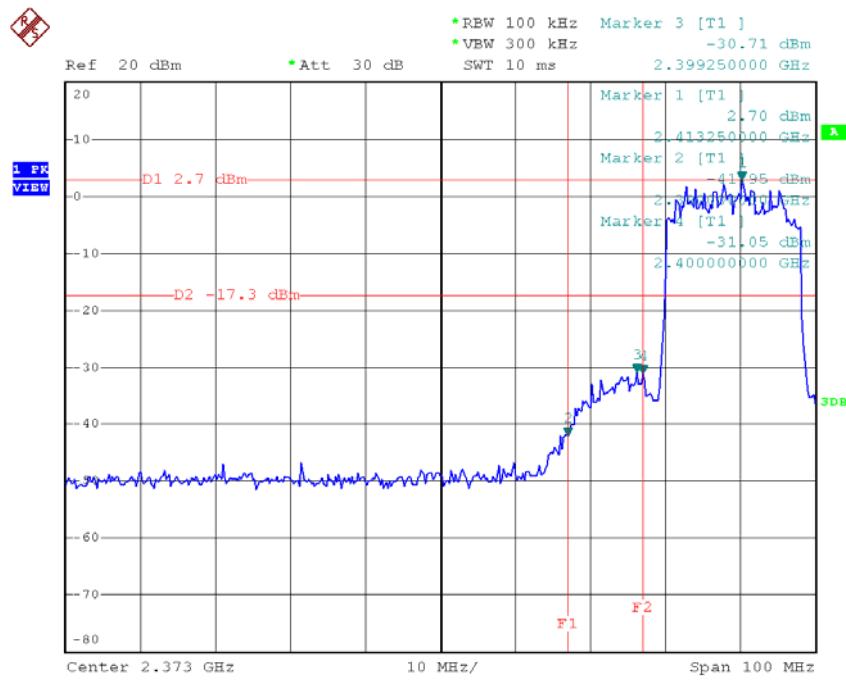
3U**TX HT20 mode CH11 (10 Harmonic of the frequency)**

Date: 19.JUN.2014 10:38:16



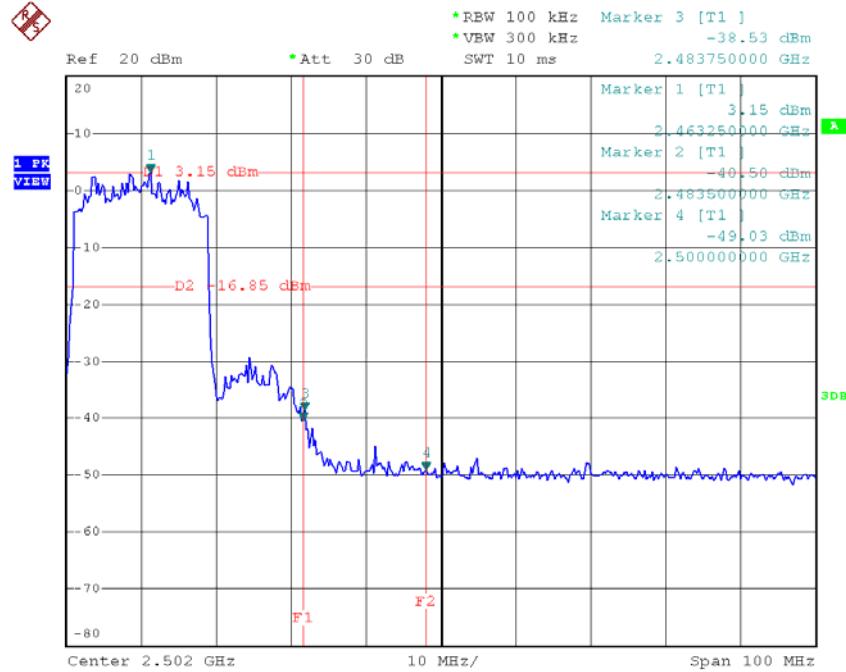
Test Mode :	TX N-20M Mode_ANT 1
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TX HT20 mode CH01



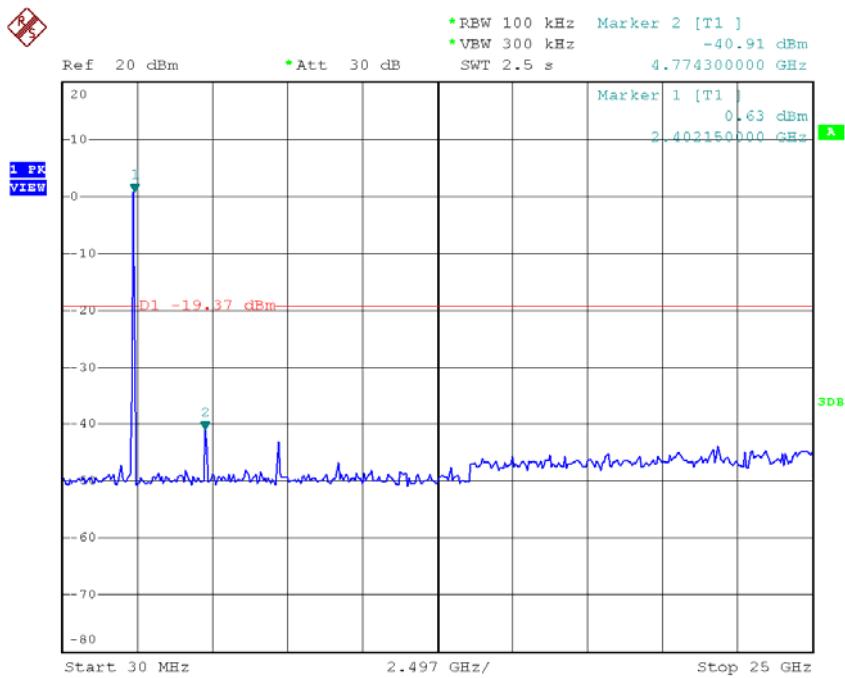
Date: 19.JUN.2014 11:07:27

TX HT20 mode CH11



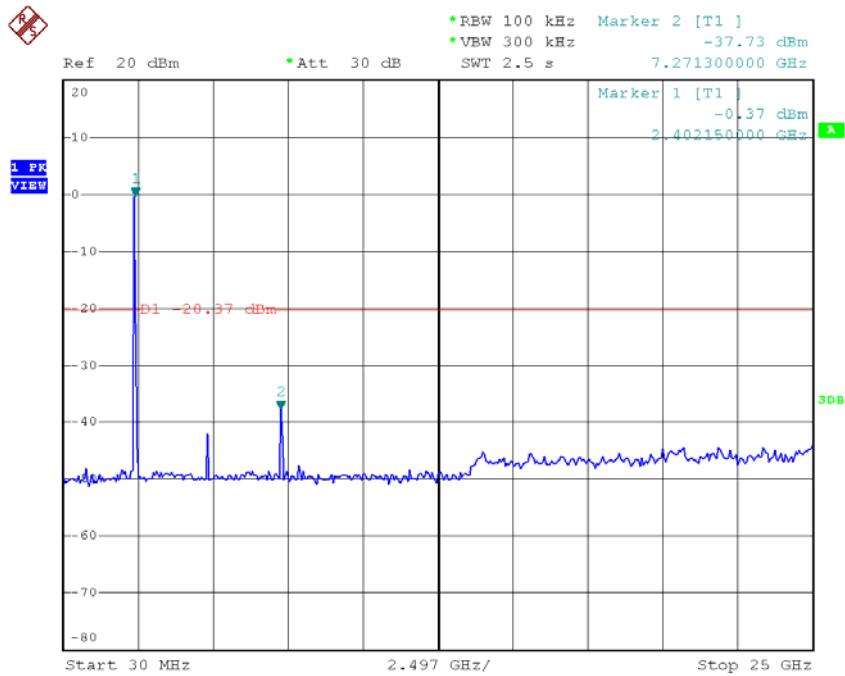
Date: 19.JUN.2014 11:11:09

TX HT20 mode CH01 (10 Harmonic of the frequency)



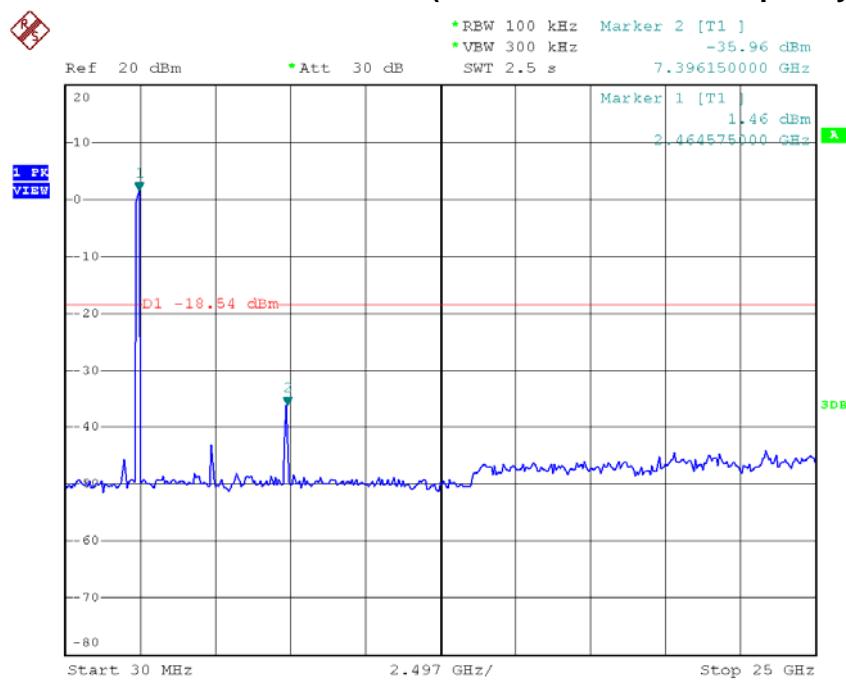
Date: 19.JUN.2014 11:06:40

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 19.JUN.2014 11:08:50

TX HT20 mode CH11 (10 Harmonic of the frequency)

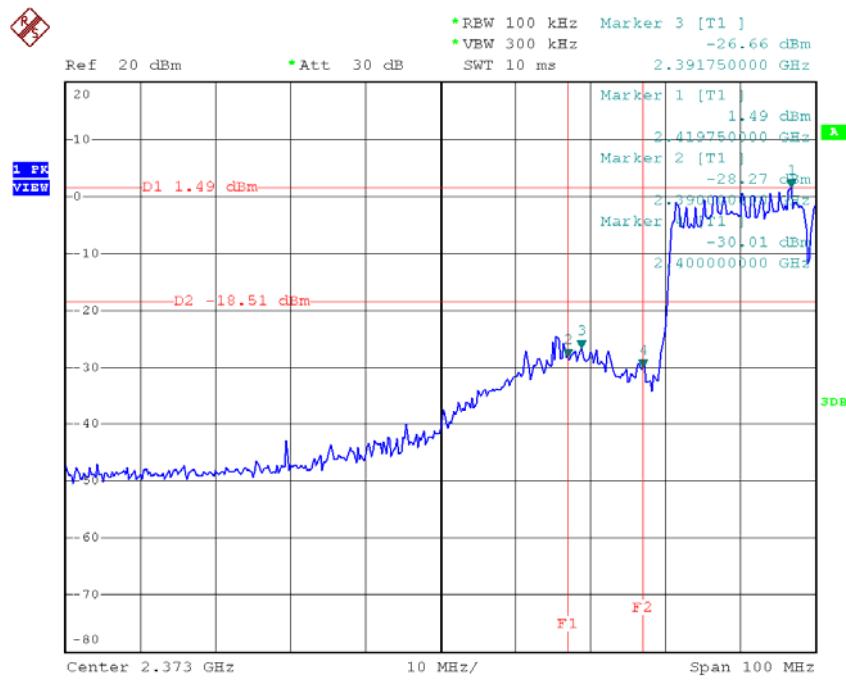


Date: 19.JUN.2014 11:10:23



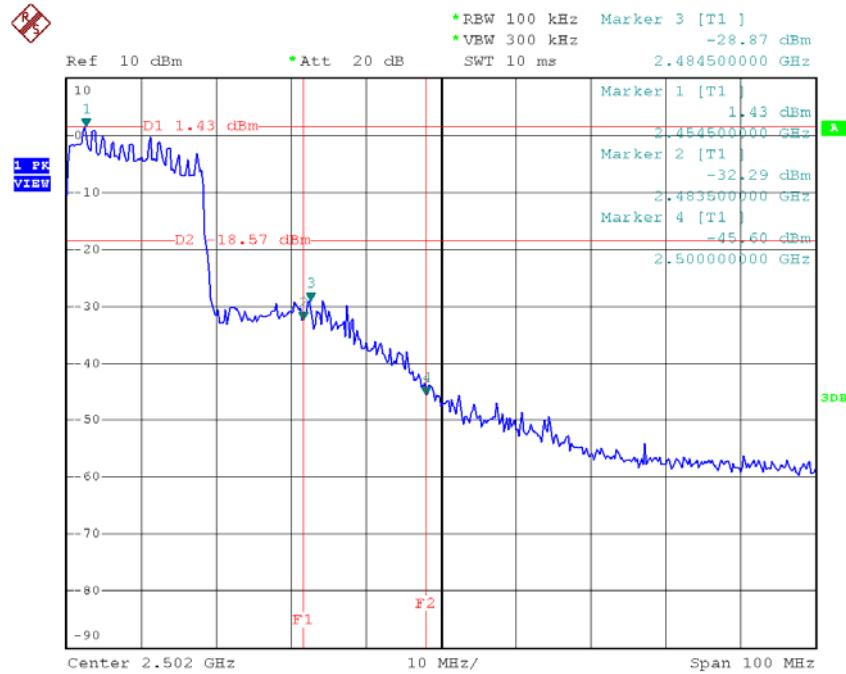
Test Mode :	TX N-40M Mode_ANT 0
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TX HT40 mode CH03



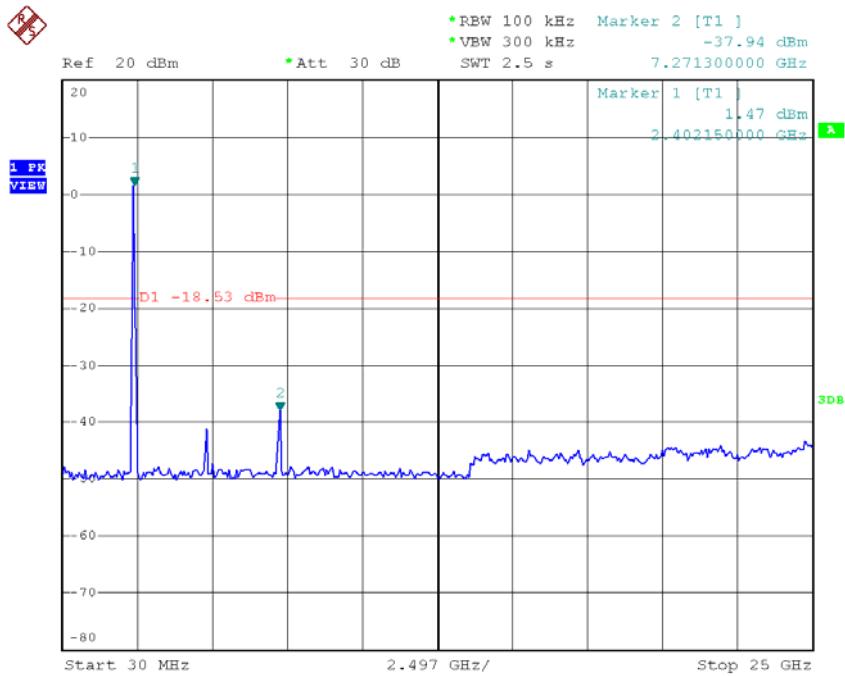
Date: 19.JUN.2014 10:43:50

TX HT40 mode CH09



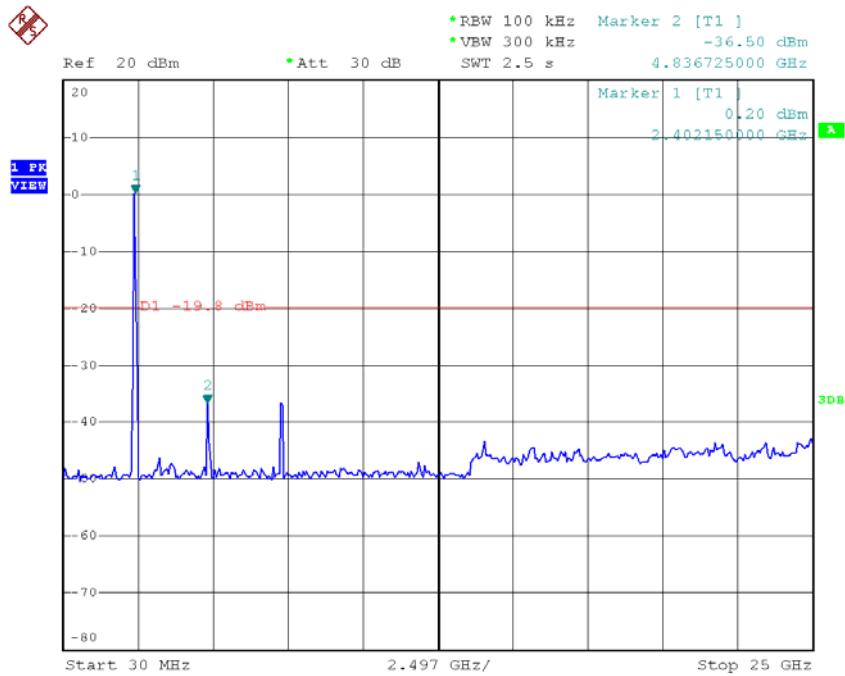
Date: 19.JUN.2014 10:54:28

TX HT40 mode CH03 (10 Harmonic of the frequency)

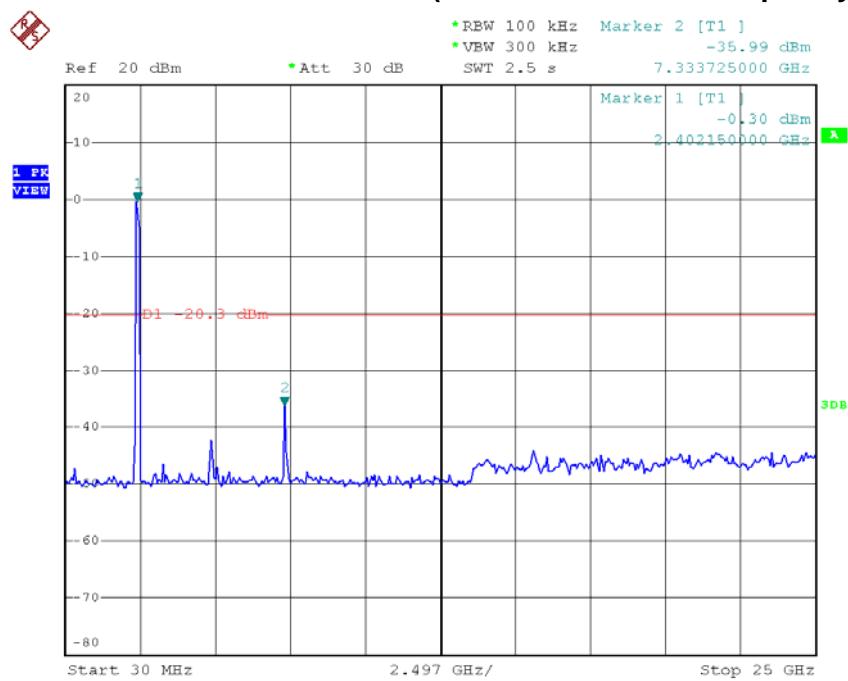


Date: 19.JUN.2014 10:42:30

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 19.JUN.2014 10:46:37

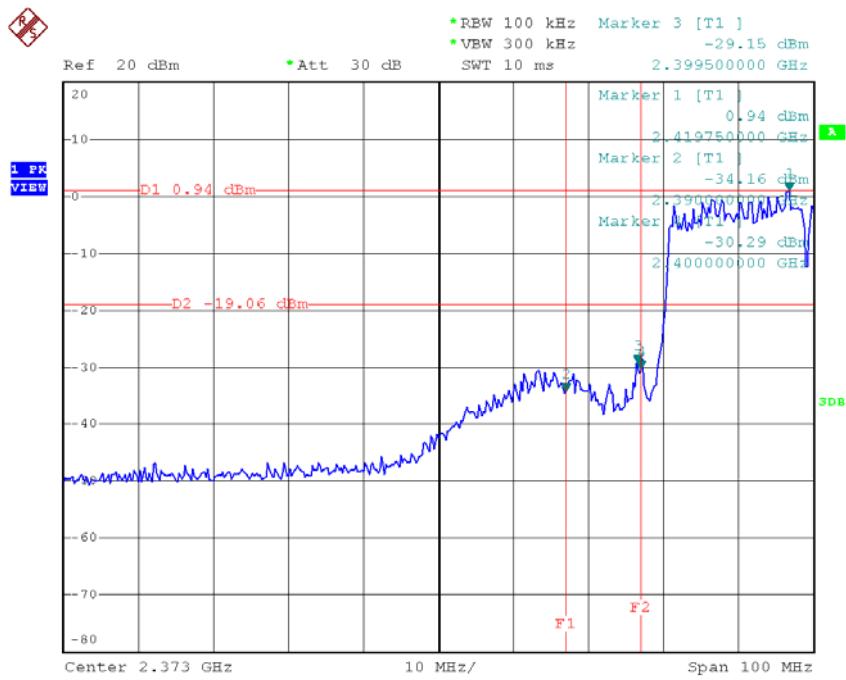
TX HT40 mode CH09 (10 Harmonic of the frequency)

Date: 19.JUN.2014 10:49:02



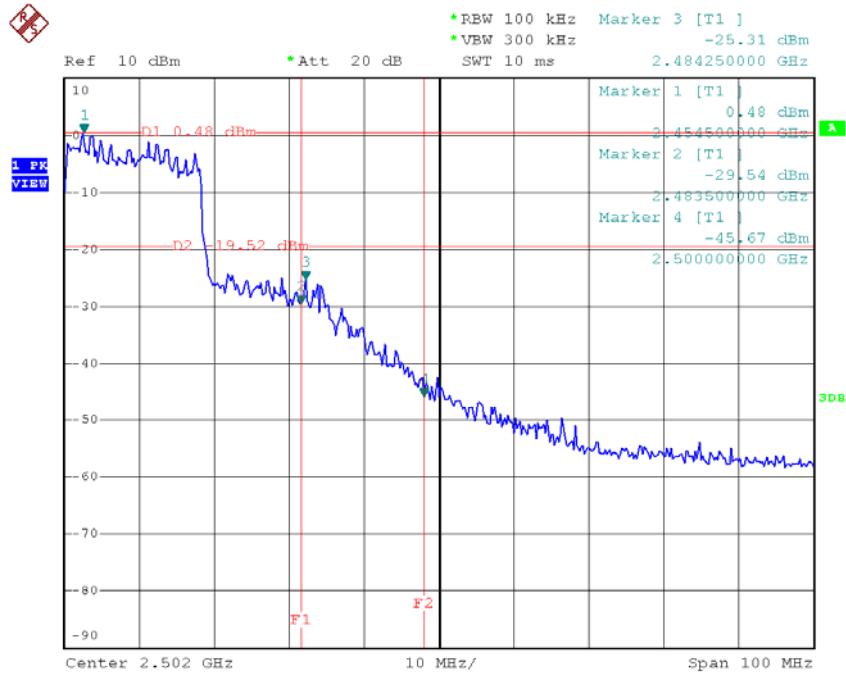
Test Mode :	TX N-40M Mode_ANT 1
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TX HT40 mode CH03



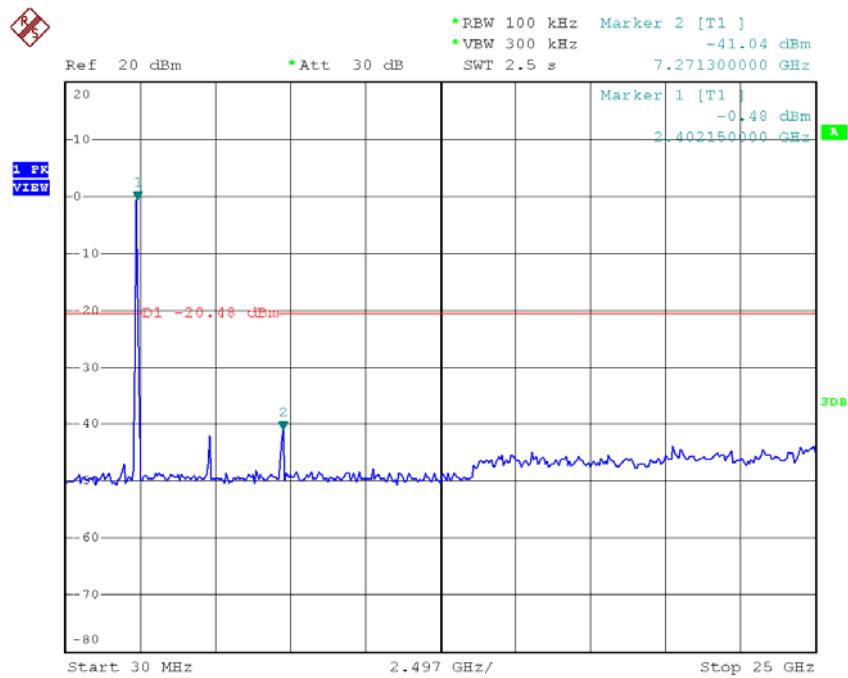
Date: 19.JUN.2014 11:05:03

TX HT40 mode CH09



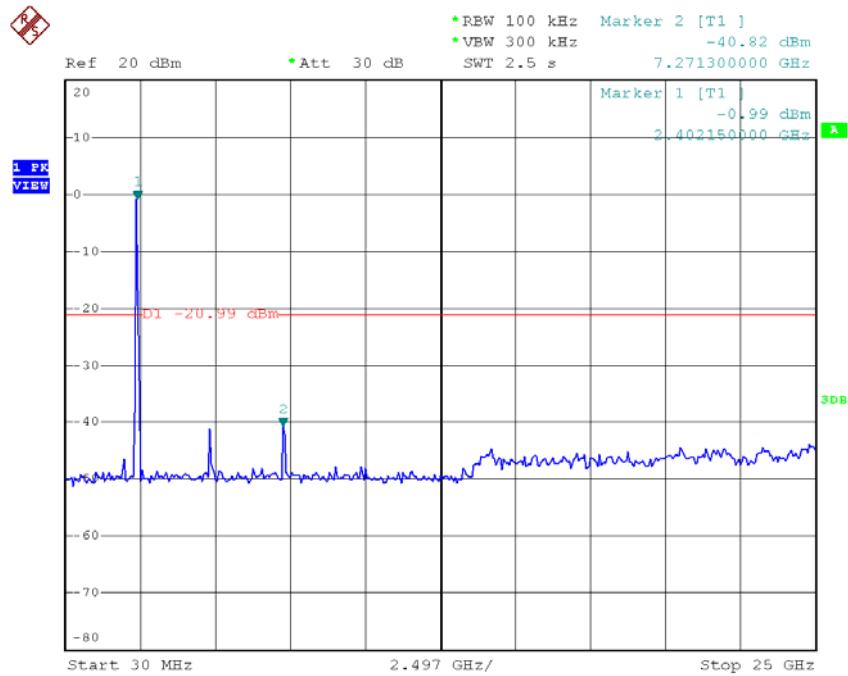
Date: 19.JUN.2014 11:00:08

TX HT40 mode CH03 (10 Harmonic of the frequency)

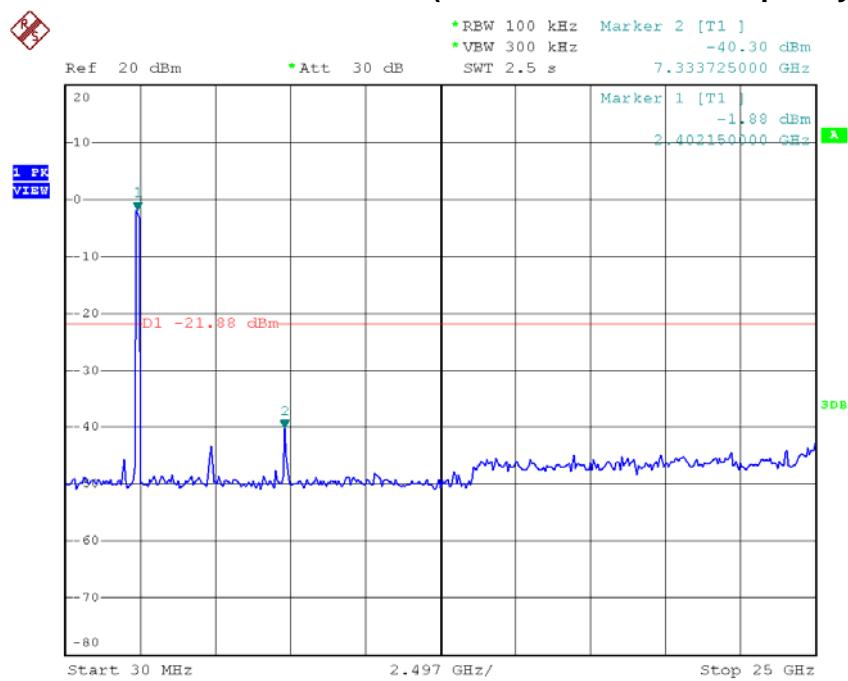


Date: 19.JUN.2014 11:03:48

TX HT40 mode CH06 (10 Harmonic of the frequency)



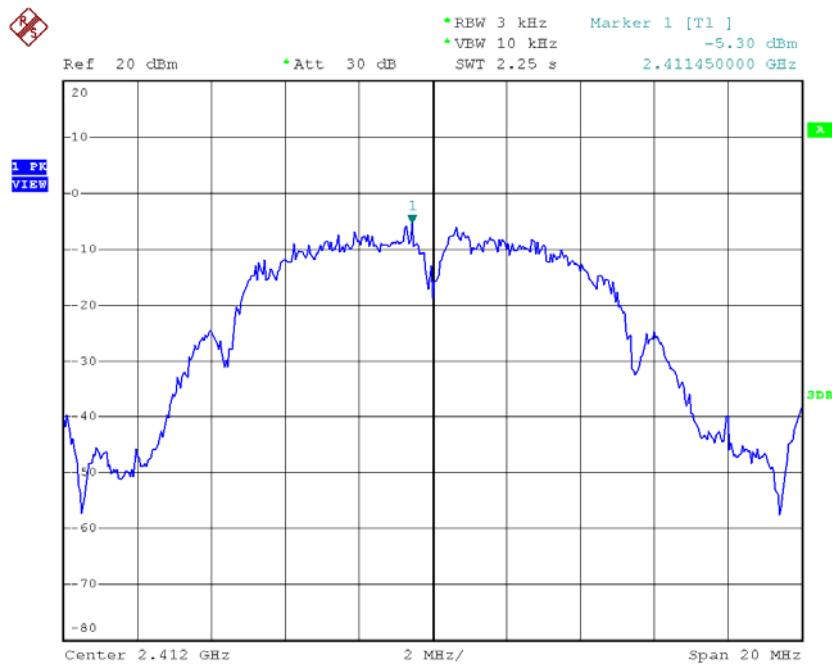
Date: 19.JUN.2014 11:01:38

TX HT40 mode CH09 (10 Harmonic of the frequency)

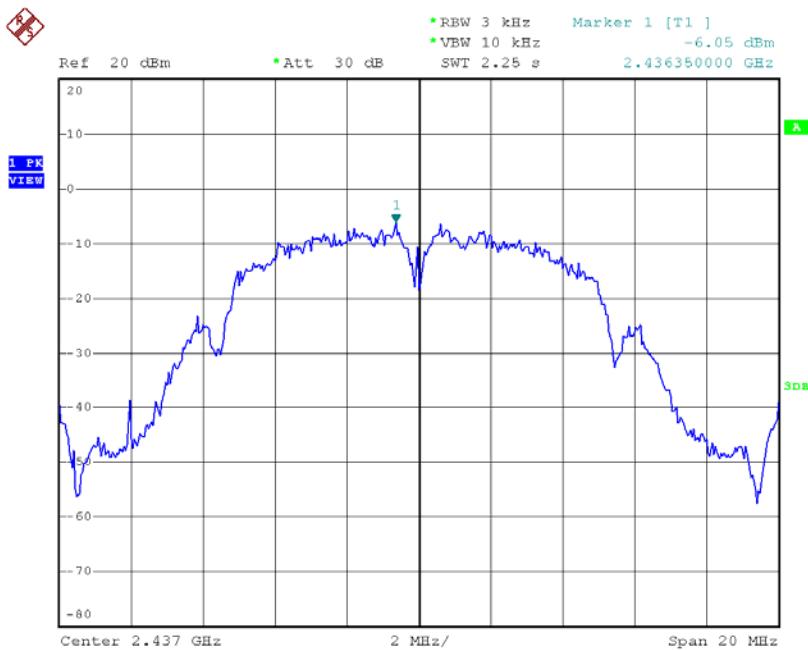
Date: 19.JUN.2014 10:59:07



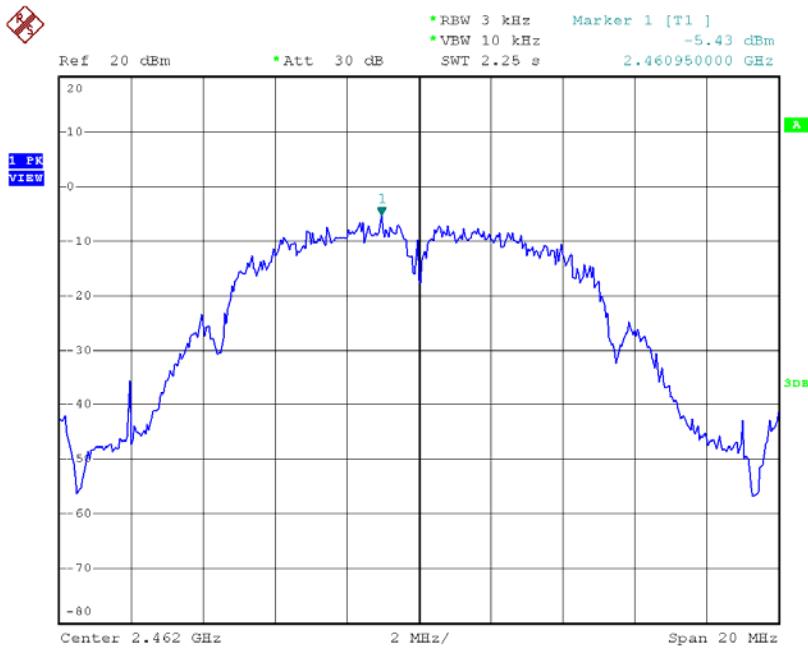
ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11**TX CH01**

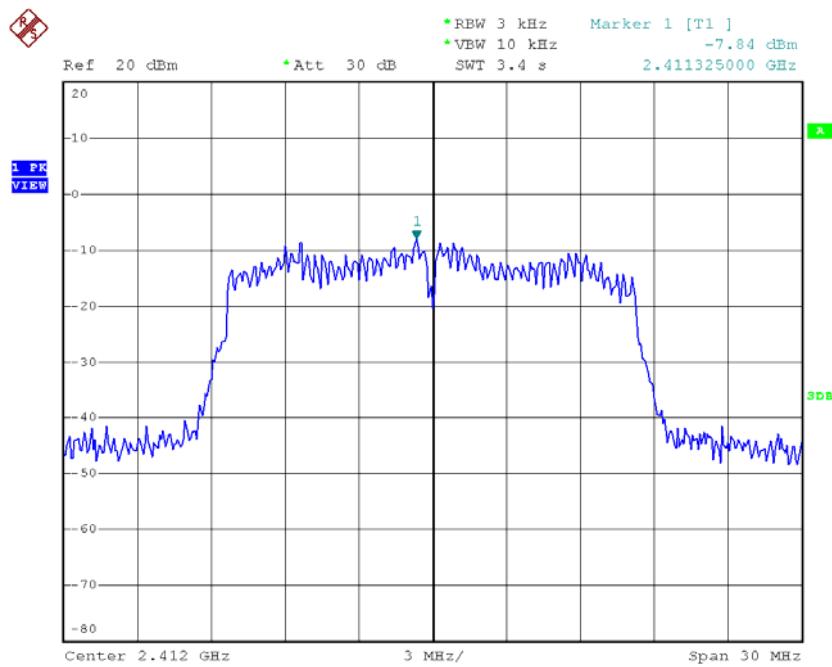
Date: 19.JUN.2014 09:38:02

TX CH06

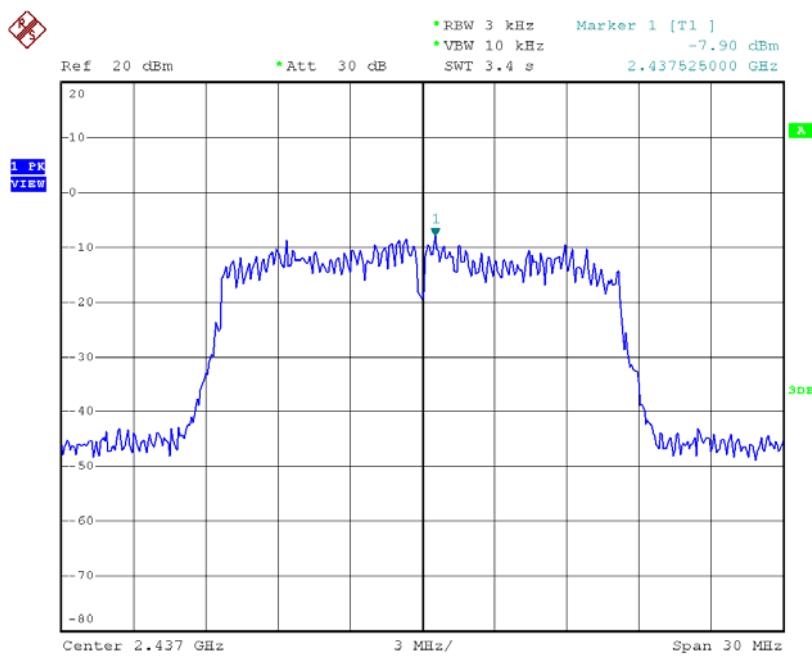
Date: 19.JUN.2014 09:44:09

TX CH11

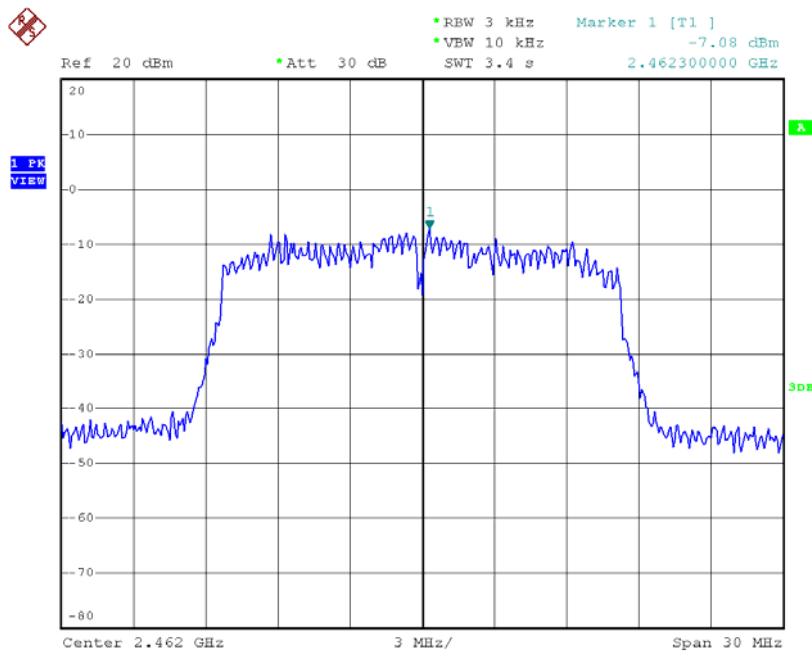
Date: 19.JUN.2014 10:00:41

Test Mode :TX G Mode_CH01/06/11**TX CH01**

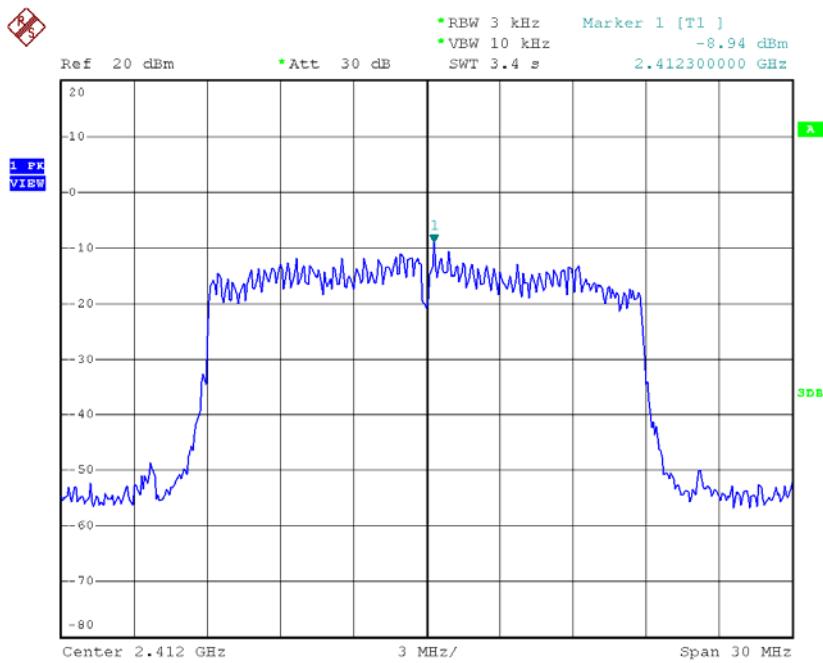
Date: 19.JUN.2014 10:06:09

TX CH06

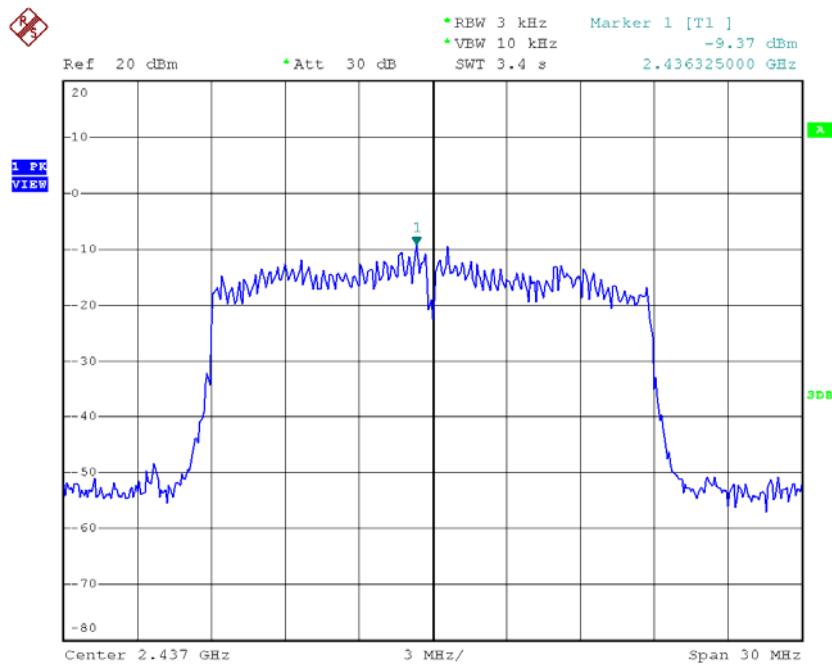
Date: 19.JUN.2014 10:14:49

TX CH11

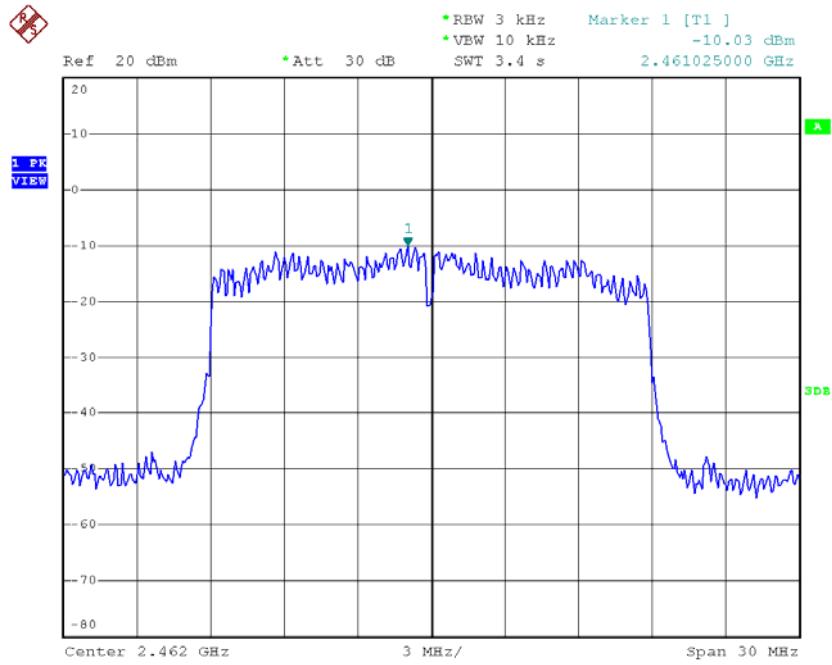
Date: 19.JUN.2014 10:18:01

Test Mode : TX N-20M Mode_CH01/06/11_ANT 0**TX CH01**

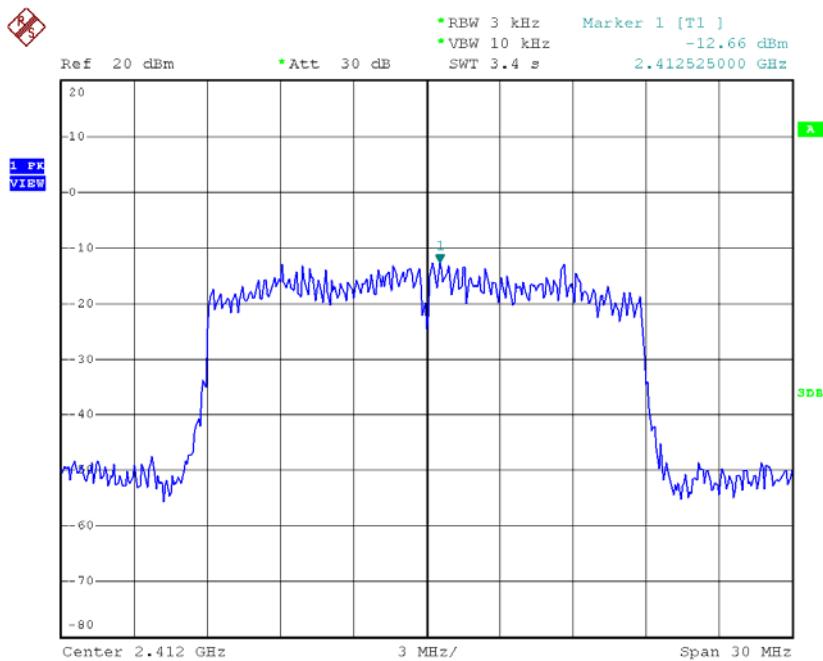
Date: 19.JUN.2014 10:22:09

TX CH06

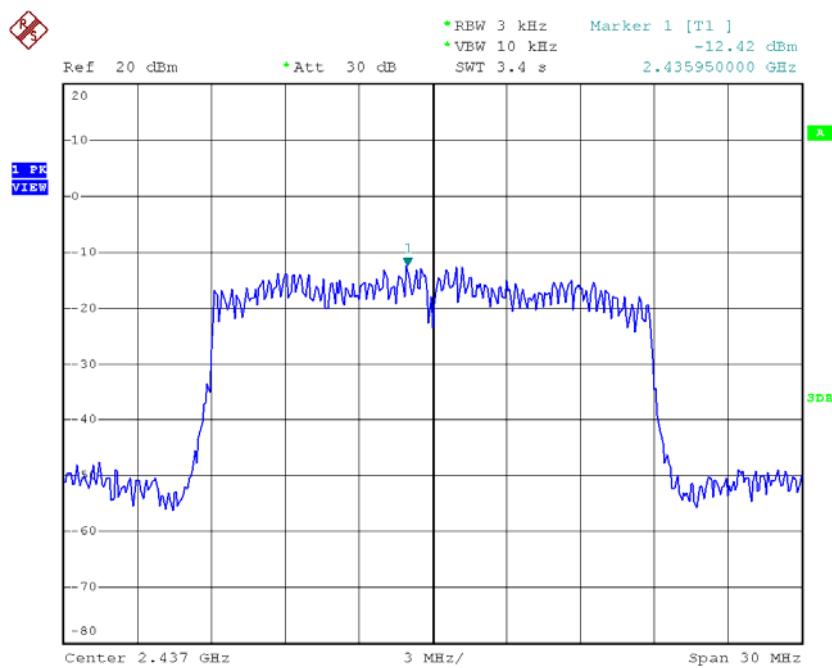
Date: 19.JUN.2014 10:35:26

TX CH11

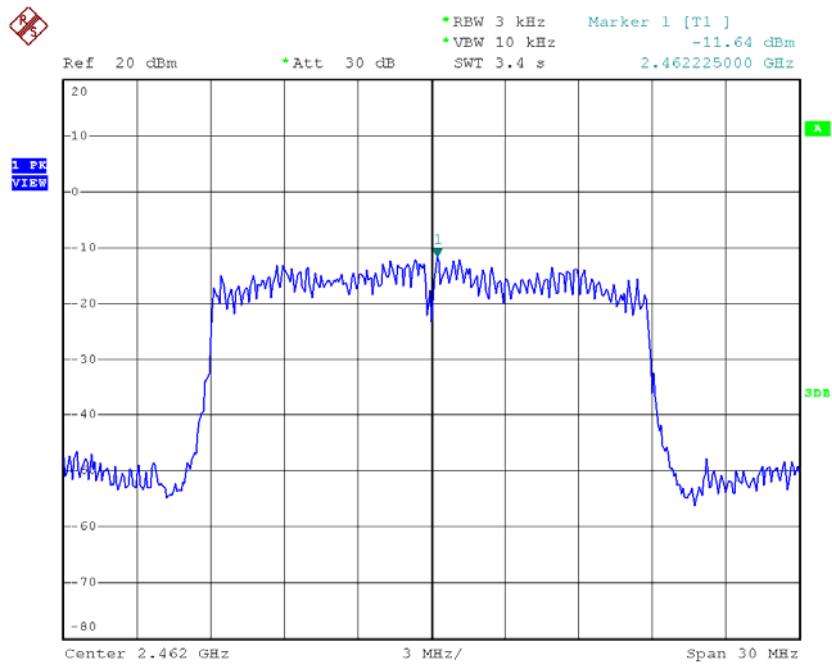
Date: 19.JUN.2014 10:40:29

Test Mode : TX N-20M Mode_CH01/06/11_ANT 1**TX CH01**

Date: 19.JUN.2014 11:07:43

TX CH06

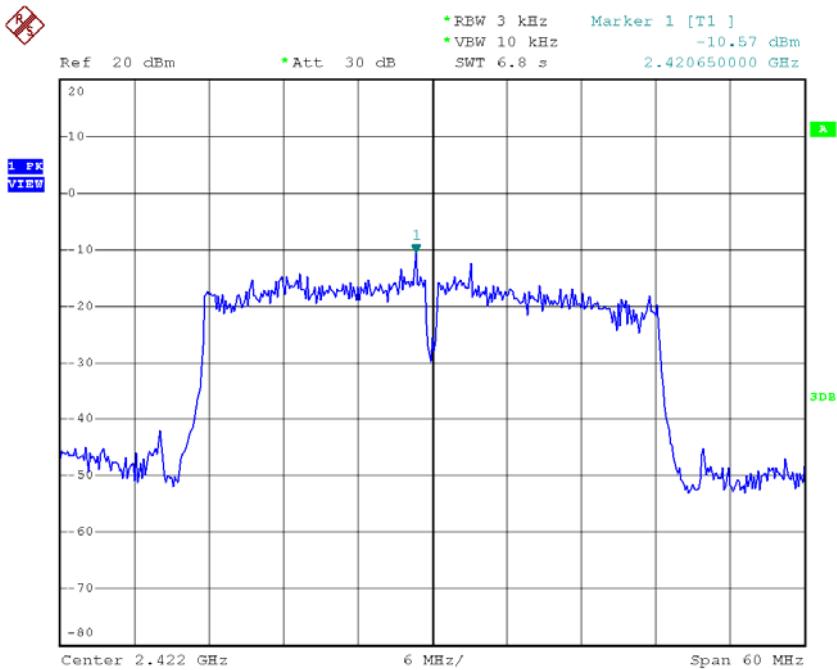
Date: 19.JUN.2014 11:09:27

TX CH11

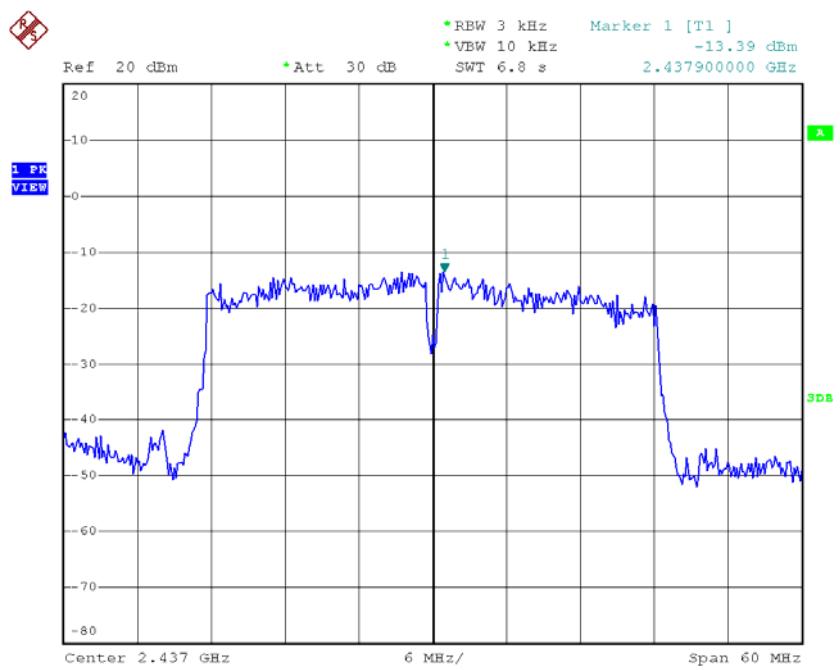
Date: 19.JUN.2014 11:11:29

**Test Mode : TX N-20M Mode_CH01/06/11_Total**

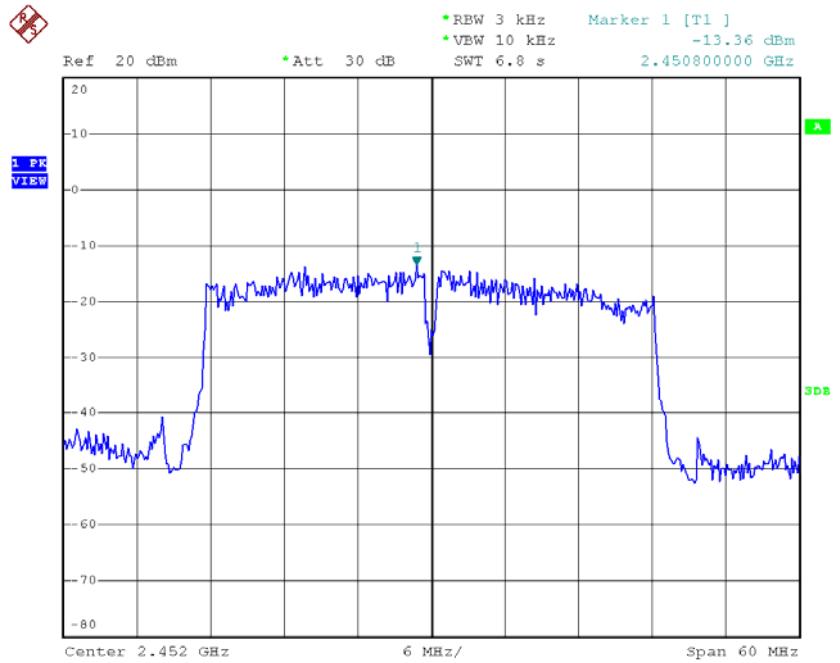
Test Channel	Frequency (MHz)	Power Density (dBm)	Limit (dBm)
CH01	2412	-7.40	8
CH06	2437	-7.62	8
CH11	2462	-7.75	8

Test Mode : TX N-40M Mode_CH03/06/09_ANT 0**TX CH03**

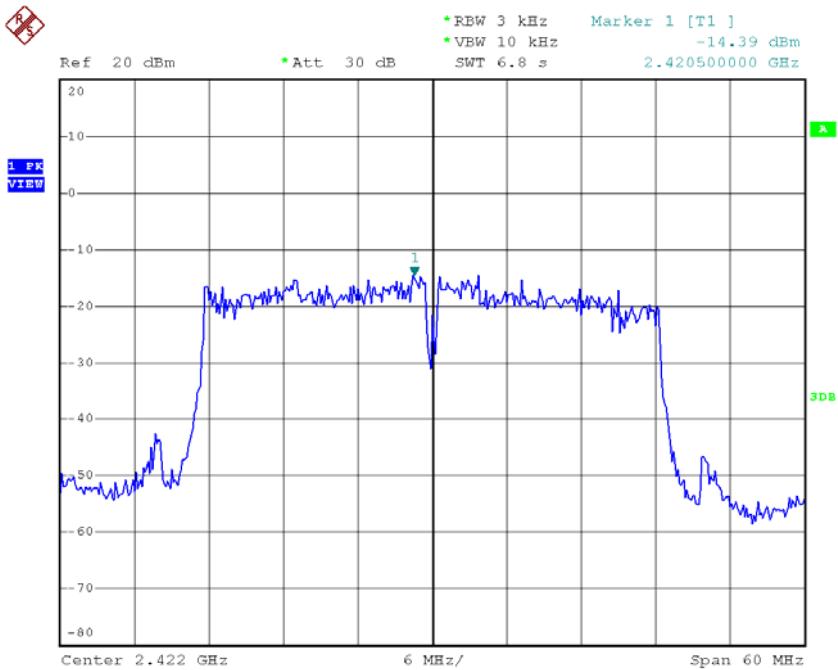
Date: 19.JUN.2014 10:44:22

TX CH06

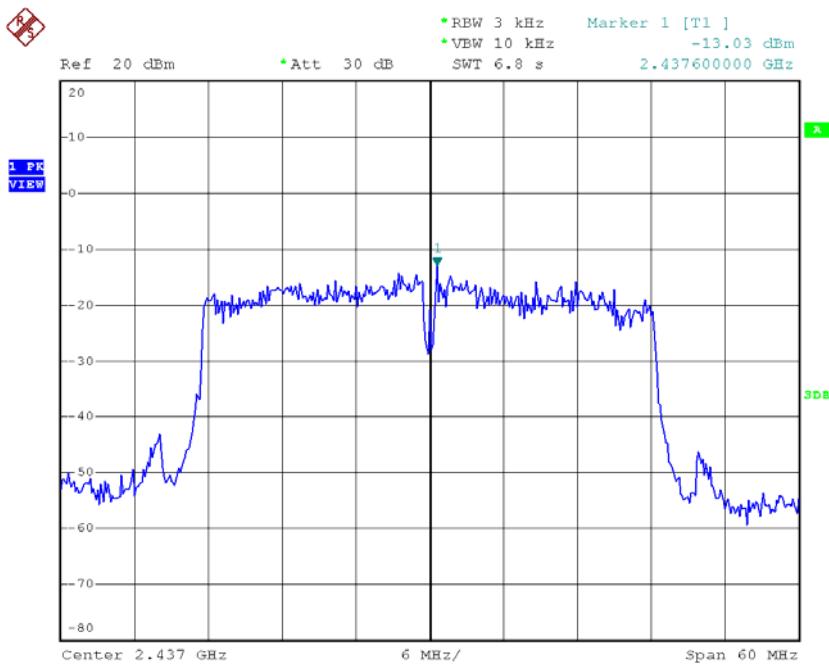
Date: 26.JUN.2014 04:08:46

TX CH09

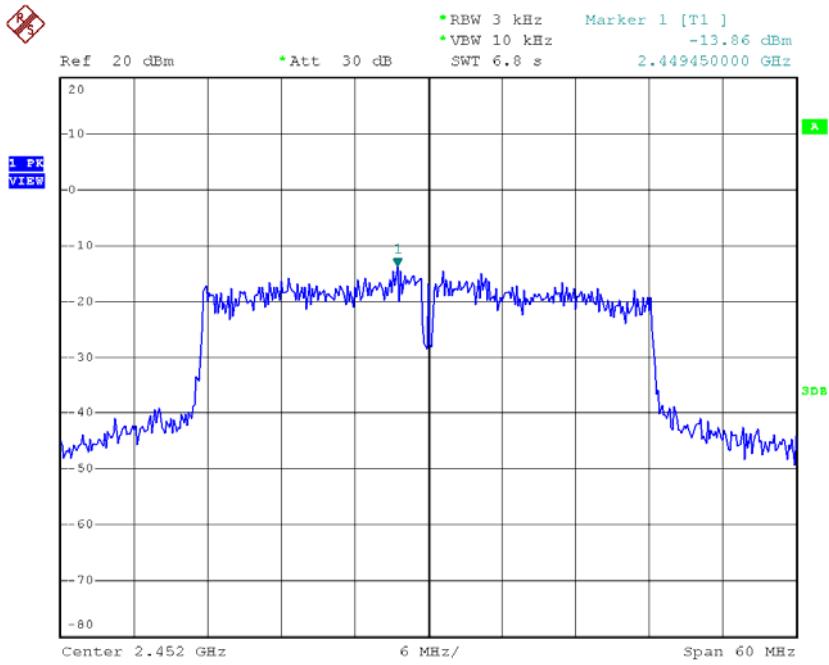
Date: 19.JUN.2014 10:54:52

Test Mode : TX N-40M Mode_CH03/06/09_ANT 1**TX CH03**

Date: 19.JUN.2014 11:05:28

TX CH06

Date: 19.JUN.2014 11:02:40

TX CH09

Date: 19.JUN.2014 11:00:28



Test Mode : TX N-40M Mode_CH03/06/09_Total

Test Channel	Frequency (MHz)	Power Density (dBm)	Limit (dBm)
CH03	2422	-9.06	8
CH06	2437	-10.20	8
CH09	2452	-10.59	8