

FCC Radio Test Report

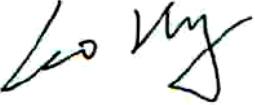
FCC ID:2AB6Z-WL0239

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

Project No. : 1408C228
Equipment : 300Mbps Wireless N Dual Band USB Adapter
Model Name : WL0239
Applicant : HUNG WAI PRODUCTS LIMITED
Address : Unit 11, 12/F., New Commerce Centre, 19 On Sum Street, Shatin, Hong Kong

Date of Receipt : Aug. 27, 2014
Date of Test : Aug. 27, 2014 ~ Sep. 05, 2014
Issued Date : Sep. 10, 2014
Tested by : BTL Inc.

Testing Engineer : 
(David Mao)

Technical Manager : 
(Leo Hung)

Authorized Signatory : 
(Steven Lu)

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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
BTL-FCCP-1- 1408C228	Original Issue.	Sep. 10, 2014

1. CERTIFICATION

Equipment : 300Mbps Wireless N Dual Band USB Adapter
Brand Name : HUNG WAI
Model Name : WL0239
Applicant : HUNG WAI PRODUCTS LIMITED
Manufacturer : ZIONCOM ELECTRONICS (SHENZHEN) LTD.
Address : Building A1~A2, Lantian Science and Technology Park, Xinyu Road Xinqiao Henggang Block Shajing Street, Baoan District, Shenzhen City, China
Factory : ZIONCOM ELECTRONICS (SHENZHEN) LTD.
Address : Building A1~A2, Lantian Science and Technology Park, Xinyu Road Xinqiao Henggang Block Shajing Street, Baoan District, Shenzhen City, China
Date of Test : Aug. 27, 2014 ~ Sep. 05, 2014
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C: 2013 (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.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1- 1408C228) 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: 2013			
Standard(s)	Section	Test Item	Judgment
	FCC		
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, Dongguan, Guangdong, 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	300Mbps Wireless N Dual Band USB Adapter	
Brand Name	HUNG WAI	
Model Name	WL0239	
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
	Conducted Output Power (Max.)	802.11b: 9.81 dBm 802.11g: 9.28 dBm 802.11n(20MHz): 9.70 dBm 802.11n(40MHz): 9.80 dBm
Power Source	Supplied from USB port	
Power Rating	DC 5V 0.5A	

Note:

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

2. Channel List:

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 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.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	printed	N/A	3.60	
2	N/A	N/A	printed	N/A	2.50	

Note:

(1) 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=3.60.

4.

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

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.

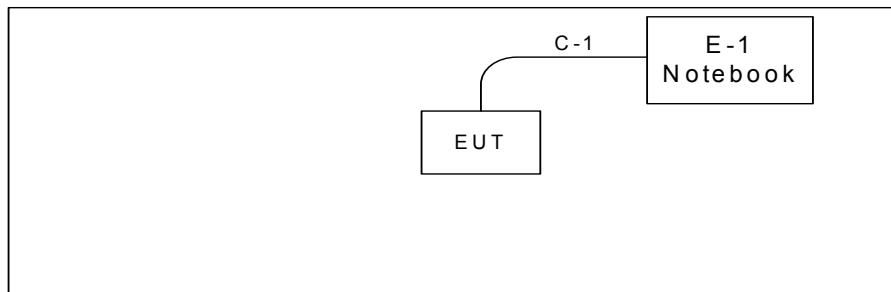
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.

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	MP_Kit_RTL11n		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	31	31	31
IEEE 802.11g OFDM	41	40	39
IEEE 802.11n (20MHz)	36	36	37
Frequency	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	38	38	38

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/IC	Series No.	Note
E-1	Notebook	DELL	E46L	DOC	EB22953770	

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

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 μ V)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

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

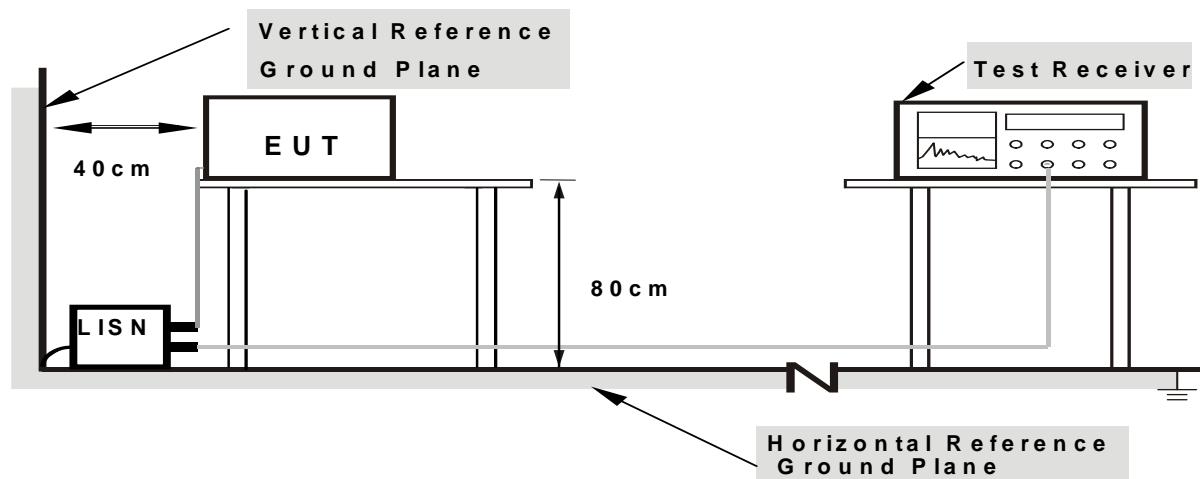
4.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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

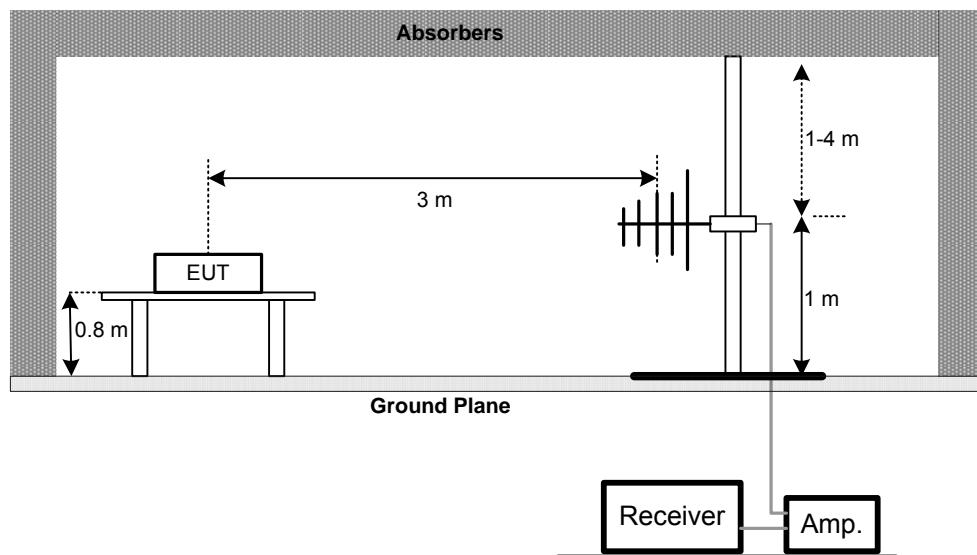
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at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

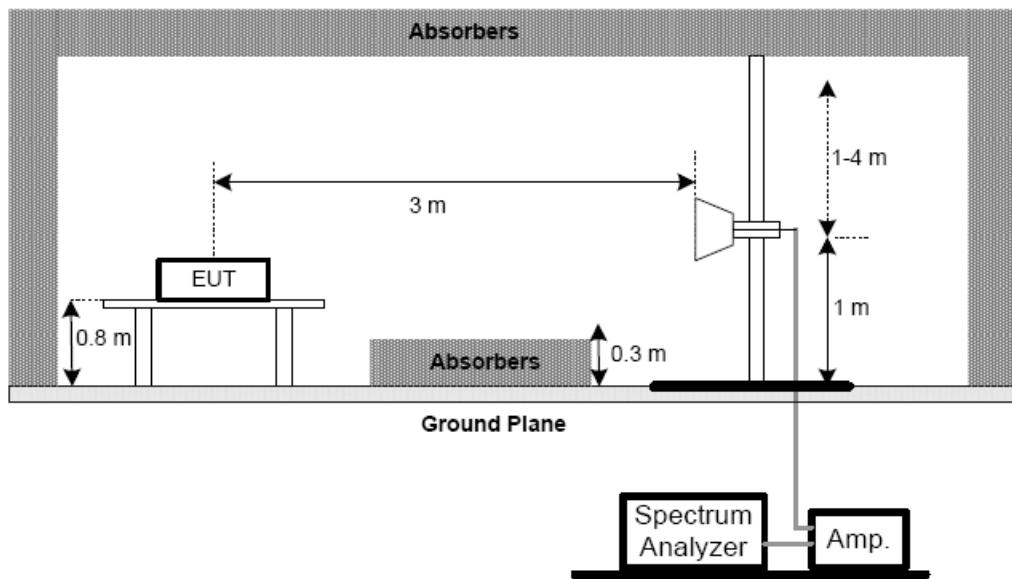
No deviation

4.2.4 TEST SETUP

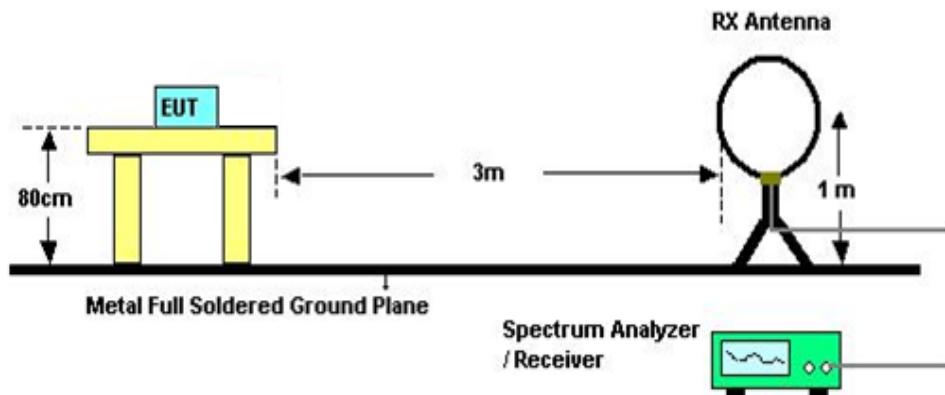
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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 4.1.5 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 (dBuV) + 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

- 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 4.1.6 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

- 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 9.1.3 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.

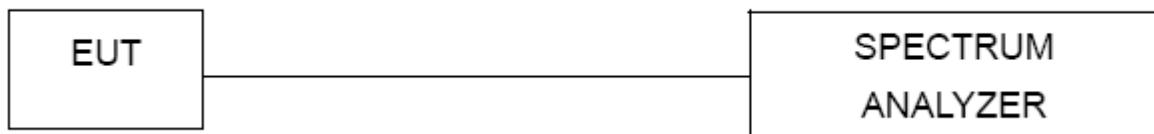
7.1.1 TEST PROCEDURE

- 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	Antenna	EMCO	3142C	00066462	Mar. 29, 2015
2	Antenna	EMCO	3142C	00066464	Mar. 29, 2015
3	Amplifier	Agilent	8447D	2944A11203	Nov. 11, 2014
4	Amplifier	Agilent	8447D	2944A11204	Nov. 11, 2014
5	Spectrum Analyzer	Agilent	E4443A	MY48250370	Nov. 11, 2014
6	RF Pre-selector	Agilent	N9039A	MY46520201	Nov. 11, 2014
7	Test Cable	N/A	Cable_5m_8m_15m	N/A	Jan. 14, 2015
8	Test Cable	N/A	Cable_5m_11m_15m	N/A	Jan. 14, 2015
9	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014
10	RF Pre-selector	Agilent	N9039A	MY46520214	Nov. 11, 2014
11	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
12	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015
13	Amplifier	Agilent	8449B	3008A02584	Nov. 11, 2014
14	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014
15	Test Cable	Huber+Suhner	SUCOFLEX_15m_4m	N/A	Jan. 14, 2015

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	Mar. 29, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015

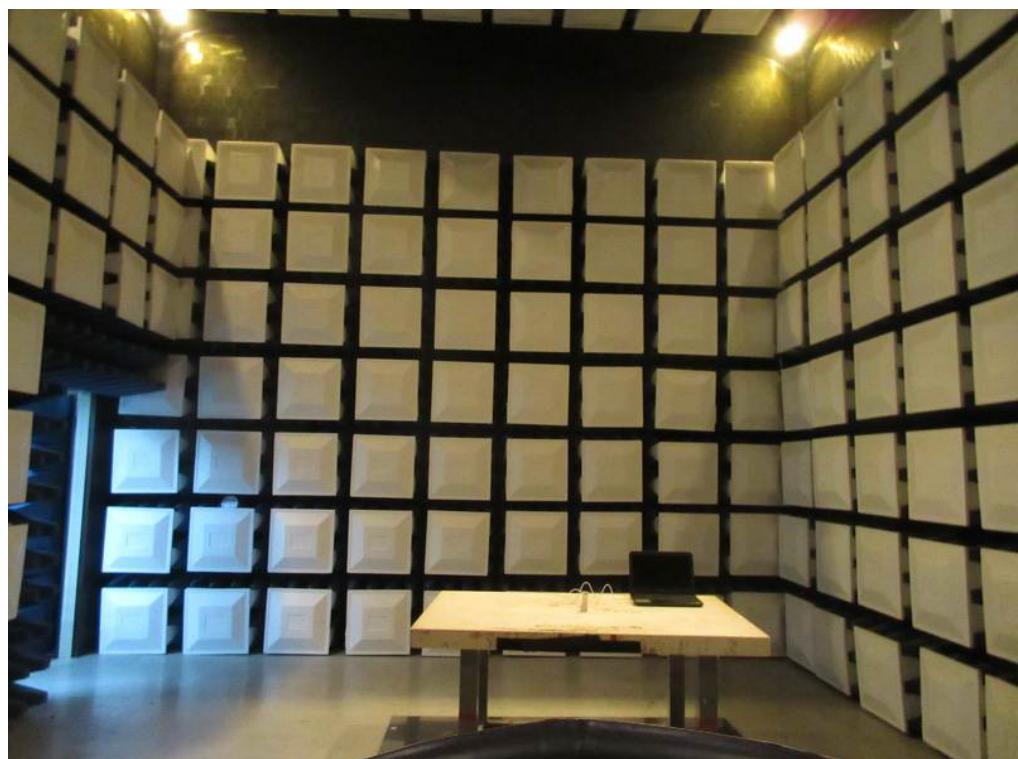
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

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.

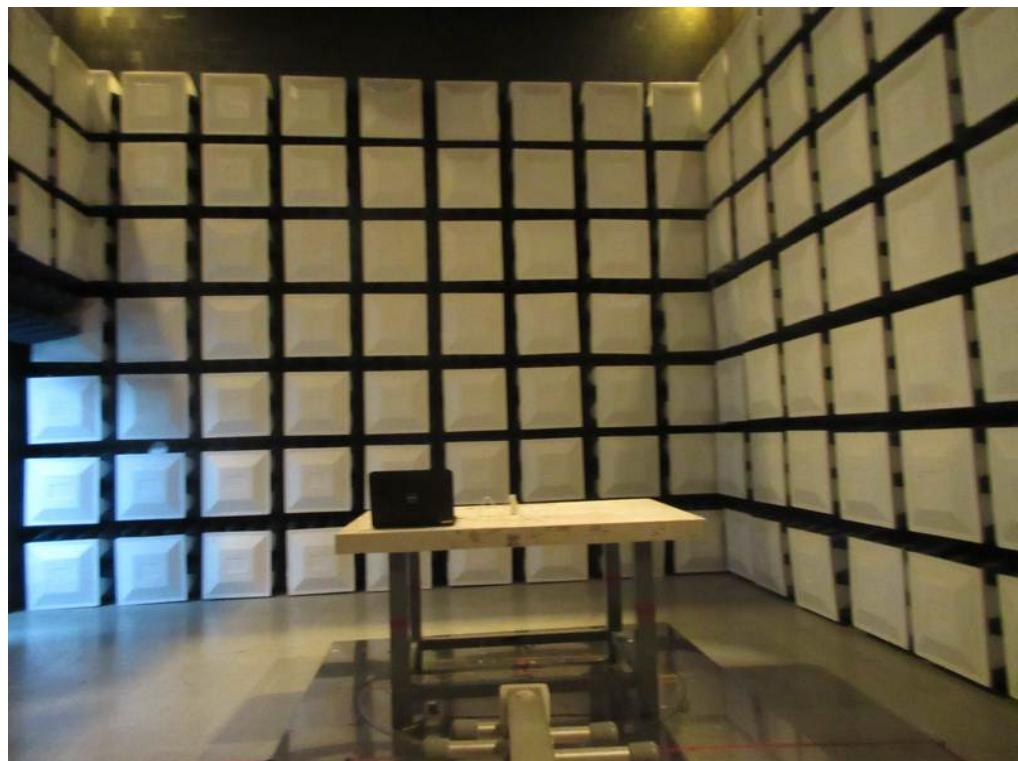
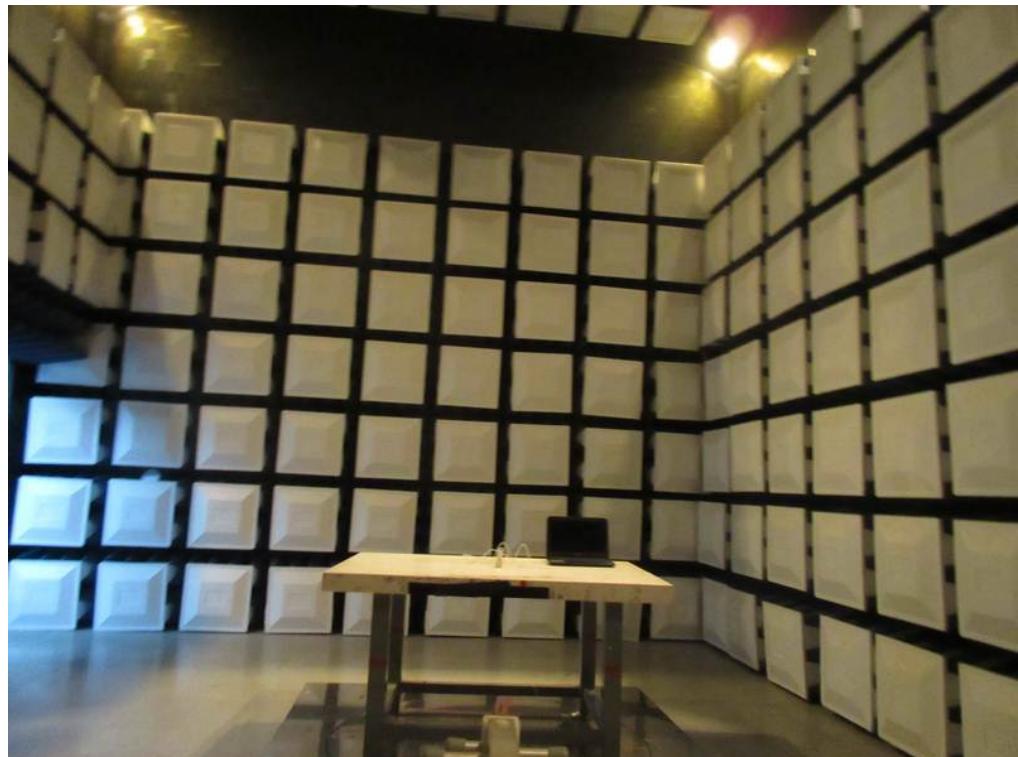
All calibration period of equipment list is one year.

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

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

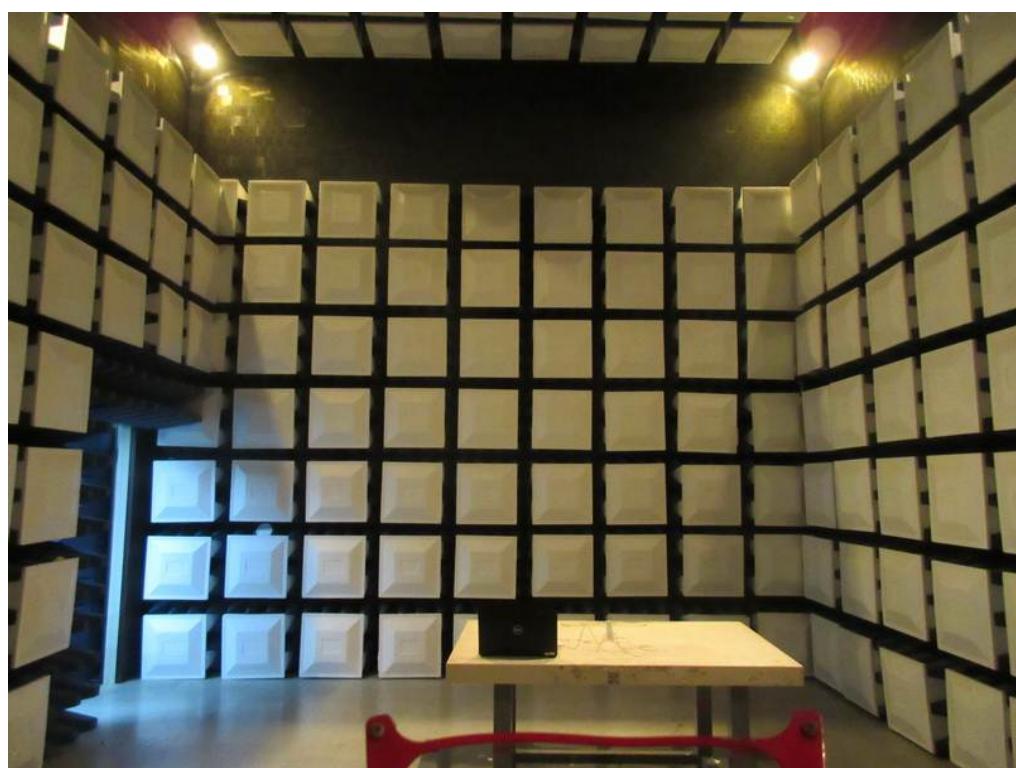
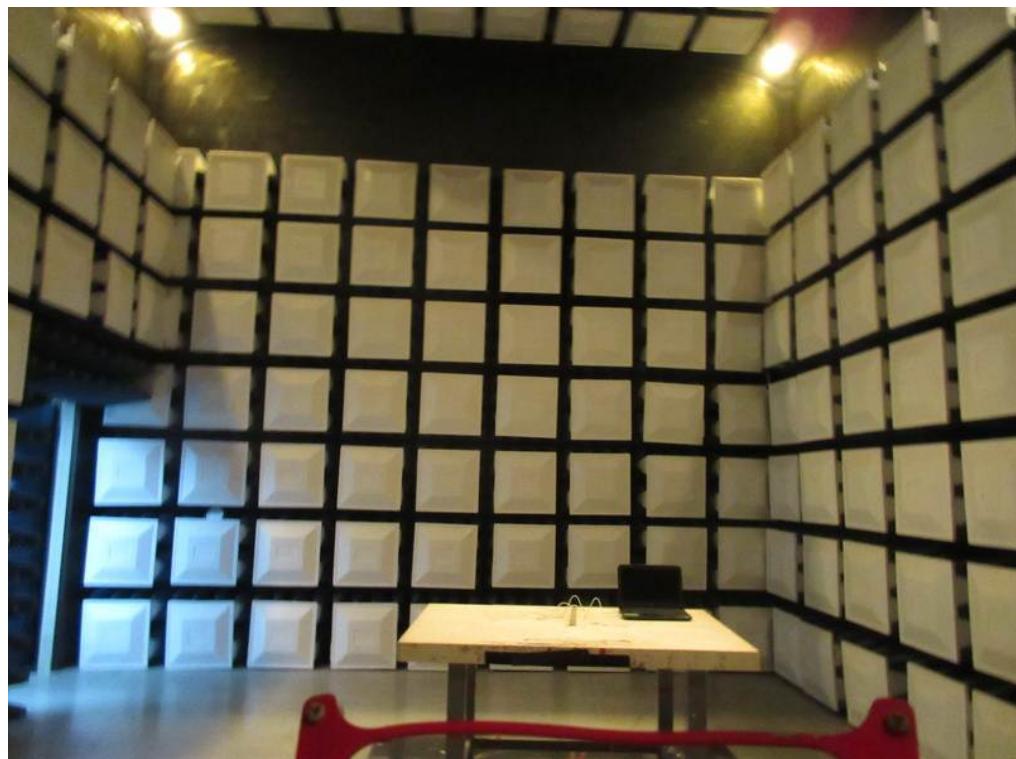
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

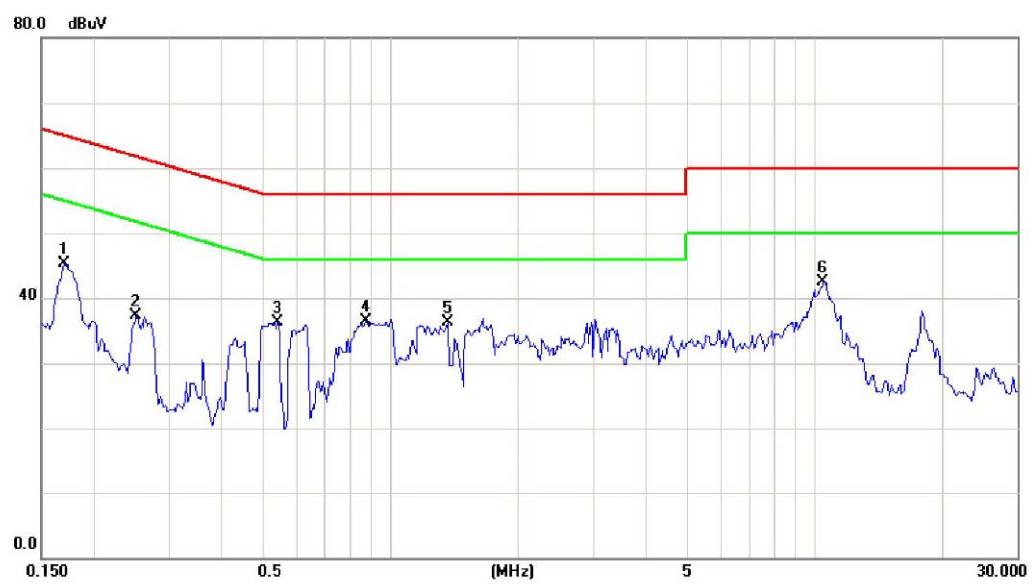
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

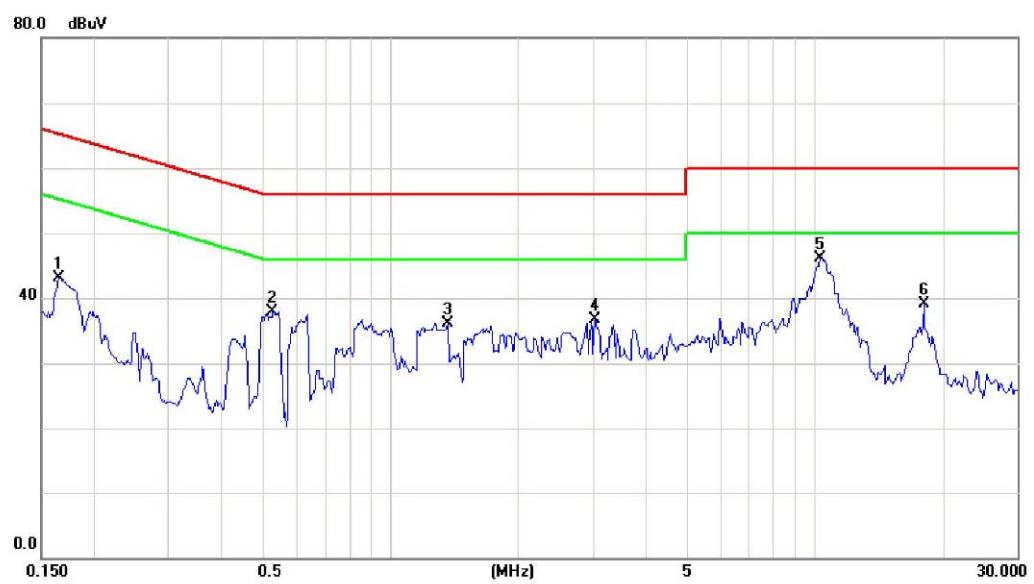
Test Mode : TX MODE

Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Over Detector	Comment
1		0.1695	35.69	9.53	45.22	64.98	-19.76	peak
2		0.2515	27.68	9.57	37.25	61.71	-24.46	peak
3		0.5403	26.57	9.68	36.25	56.00	-19.75	peak
4		0.8760	26.91	9.67	36.58	56.00	-19.42	peak
5		1.3648	26.61	9.71	36.32	56.00	-19.68	peak
6	*	10.4921	32.43	10.10	42.53	60.00	-17.47	peak

Test Mode : TX MODE

Neutral

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Over Detector	Comment
1		0.1655	33.49	9.62	43.11	65.18	-22.07	peak
2		0.5290	28.35	9.64	37.99	56.00	-18.01	peak
3		1.3648	26.43	9.70	36.13	56.00	-19.87	peak
4		3.0350	26.89	9.79	36.68	56.00	-19.32	peak
5	*	10.3046	36.08	10.11	46.19	60.00	-13.81	peak
6		18.0898	28.82	10.37	39.19	60.00	-20.81	peak

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

Test Mode:	TX Mode 2412MHz
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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°	3.69	24.30	27.99	128.15	-100.16	AVG
0.0094	0°	10.36	24.30	34.66	148.15	-113.49	PEAK
0.0125	0°	6.14	24.30	30.44	125.67	-95.23	AVG
0.0125	0°	13.97	24.30	38.27	145.67	-107.40	PEAK
0.0247	0°	4.77	24.00	28.77	119.75	-90.98	AVG
0.0247	0°	15.20	24.00	39.20	139.75	-100.55	PEAK
0.0319	0°	1.08	23.55	24.63	117.53	-92.90	AVG
0.0319	0°	13.98	23.55	37.53	137.53	-100.00	PEAK
0.5610	0°	11.98	20.00	31.98	72.62	-40.65	QP
1.7512	0°	11.63	19.52	31.15	69.54	-38.39	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°	5.88	24.30	30.18	128.19	-98.01	AVG
0.0094	90°	16.94	24.30	41.24	148.19	-106.95	PEAK
0.0230	90°	4.08	24.11	28.19	120.37	-92.18	AVG
0.0230	90°	13.66	24.11	37.77	140.37	-102.60	PEAK
0.0320	90°	3.08	23.54	26.62	117.50	-90.88	AVG
0.0320	90°	12.77	23.54	36.31	137.50	-101.19	PEAK
0.0428	90°	2.83	22.86	25.69	114.98	-89.29	AVG
0.0428	90°	16.30	22.86	39.16	134.98	-95.82	PEAK
0.4913	90°	13.92	19.82	33.74	73.78	-40.04	QP
1.7158	90°	12.06	19.53	31.59	69.54	-37.95	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

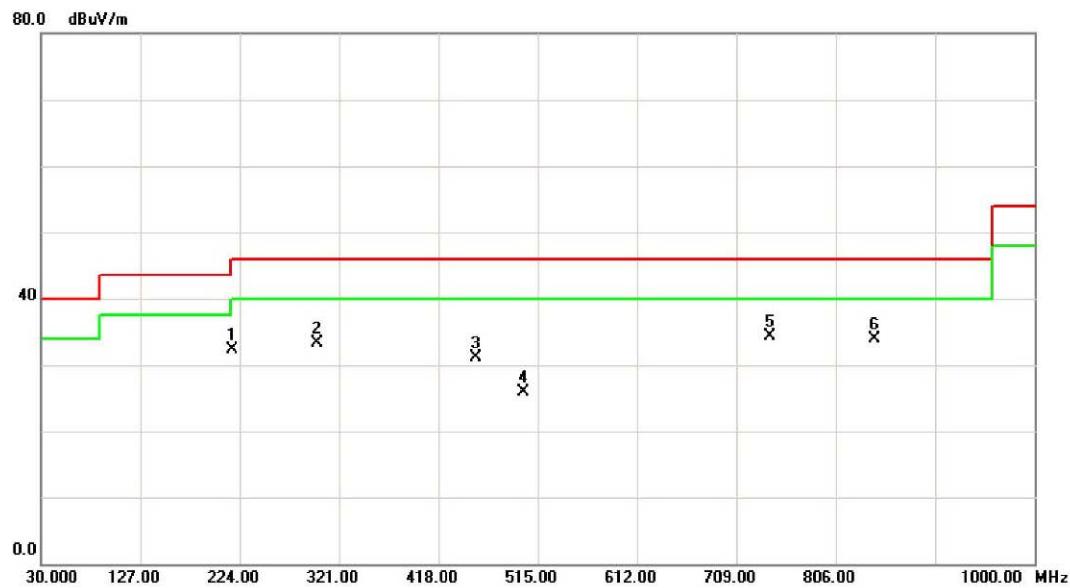
Vertical



No. Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		Level dBuV	Factor dB	ment dBuV/m				
1	195.8700	41.70	-14.73	26.97	43.50	-16.53	peak	
2	305.4800	35.01	-11.07	23.94	46.00	-22.06	peak	
3	407.3300	36.55	-9.39	27.16	46.00	-18.84	peak	
4 *	654.6800	40.38	-5.13	35.25	46.00	-10.75	peak	
5	697.3600	40.16	-4.95	35.21	46.00	-10.79	peak	
6	743.9200	38.10	-4.66	33.44	46.00	-12.56	peak	

Test Mode: TX B MODE CHANNEL 01

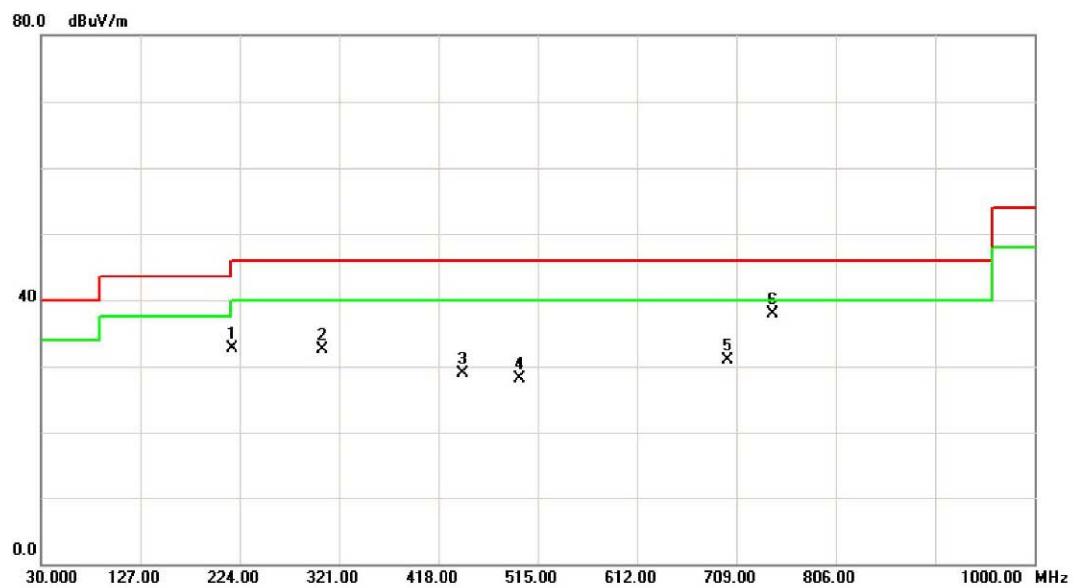
Horizontal



No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		216.2400	47.40	-15.08	32.32	46.00	-13.68	peak	
2		299.6600	44.24	-10.99	33.25	46.00	-12.75	peak	
3		454.8600	39.88	-8.81	31.07	46.00	-14.93	peak	
4		501.4200	36.39	-10.44	25.95	46.00	-20.05	peak	
5	*	741.9800	39.04	-4.69	34.35	46.00	-11.65	peak	
6		843.8300	37.09	-3.12	33.97	46.00	-12.03	peak	

Test Mode: TX B MODE CHANNEL 06

Vertical



No. Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
		dBuV	dB	dBuV/m	dBuV/m	dB		
1	216.2400	47.77	-15.08	32.69	46.00	-13.31	peak	
2	304.5100	43.56	-11.07	32.49	46.00	-13.51	peak	
3	441.2800	37.65	-8.78	28.87	46.00	-17.13	peak	
4	497.5400	38.50	-10.43	28.07	46.00	-17.93	peak	
5	700.2700	35.87	-4.93	30.94	46.00	-15.06	peak	
6 *	743.9200	42.61	-4.66	37.95	46.00	-8.05	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	dB	Detector	Comment
1		216.2400	43.44	-15.08	28.36	46.00	-17.64	peak	
2		298.6900	39.56	-11.01	28.55	46.00	-17.45	peak	
3		407.3300	36.07	-9.39	26.68	46.00	-19.32	peak	
4		652.7400	38.08	-5.13	32.95	46.00	-13.05	peak	
5		697.3600	36.98	-4.95	32.03	46.00	-13.97	peak	
6	*	752.6500	37.94	-4.54	33.40	46.00	-12.60	peak	

Test Mode: TX B MODE CHANNEL 11

Vertical



No. Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		Level dBuV	Factor dB	ment dBuV/m				
1	194.9000	40.89	-14.66	26.23	43.50	-17.27	peak	
2	255.0400	37.81	-13.90	23.91	46.00	-22.09	peak	
3	458.7400	35.20	-8.95	26.25	46.00	-19.75	peak	
4 *	644.0100	39.31	-5.49	33.82	46.00	-12.18	peak	
5	697.3600	36.24	-4.95	31.29	46.00	-14.71	peak	
6	741.9800	38.30	-4.69	33.61	46.00	-12.39	peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal



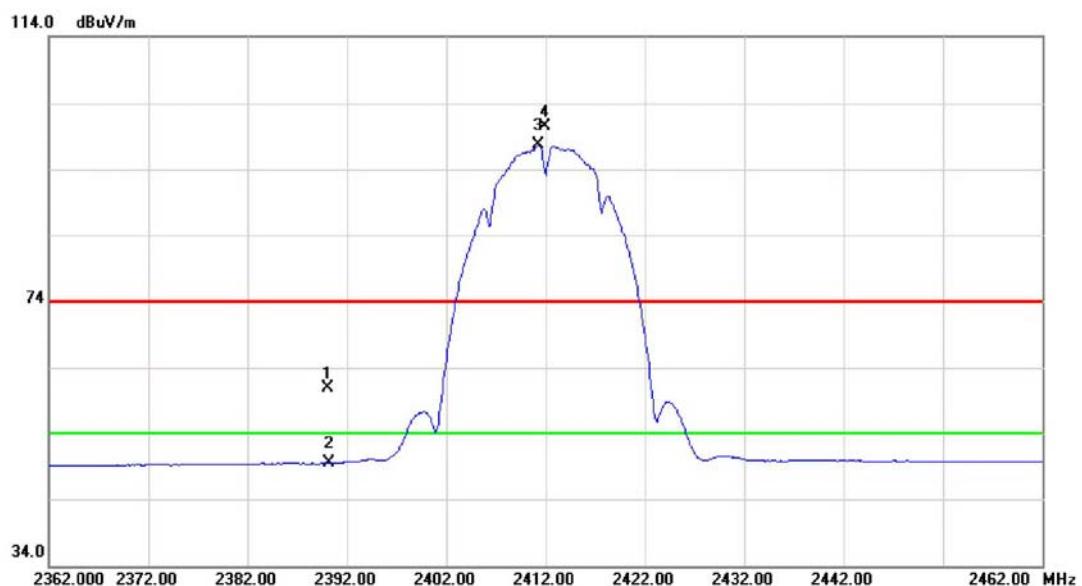
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	dB	Detector	Comment
1		216.2400	47.68	-15.08	32.60	46.00	-13.40	peak	
2		305.4800	42.80	-11.07	31.73	46.00	-14.27	peak	
3		408.3000	37.52	-9.38	28.14	46.00	-17.86	peak	
4		676.0200	31.68	-5.04	26.64	46.00	-19.36	peak	
5		755.5600	33.62	-4.44	29.18	46.00	-16.82	peak	
6	*	800.1800	36.34	-2.89	33.45	46.00	-12.55	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis : X

Test Mode : TX B MODE 2412MHz

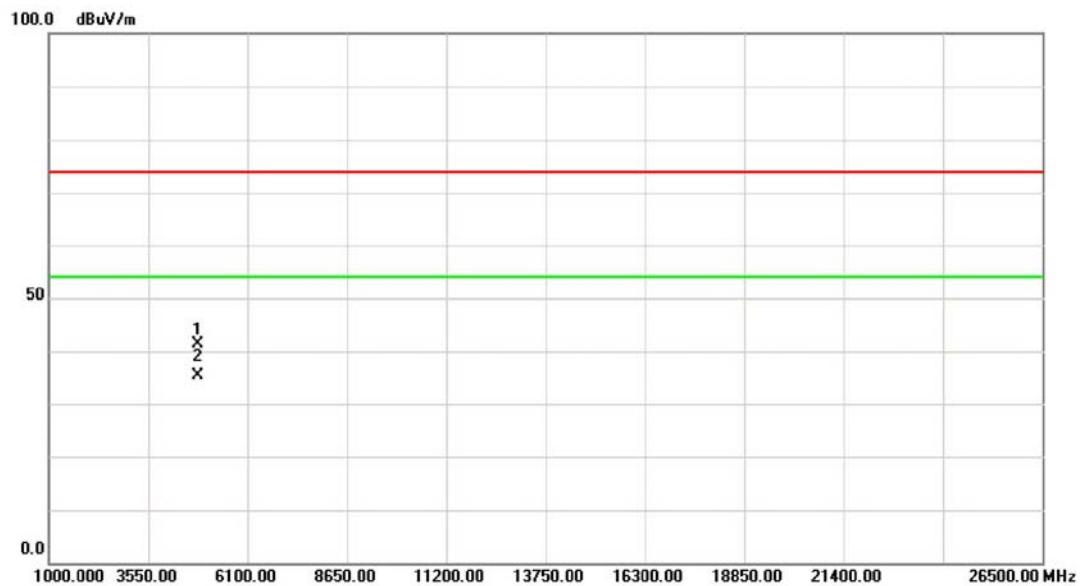
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	27.37	33.54	60.91	74.00	-13.09	peak	
2		2390.000	15.92	33.54	49.46	54.00	-4.54	AVG	
3	*	2411.200	64.04	33.57	97.61	54.00	43.61	AVG	no limit
4	X	2411.900	66.94	33.57	100.51	74.00	26.51	peak	no limit

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

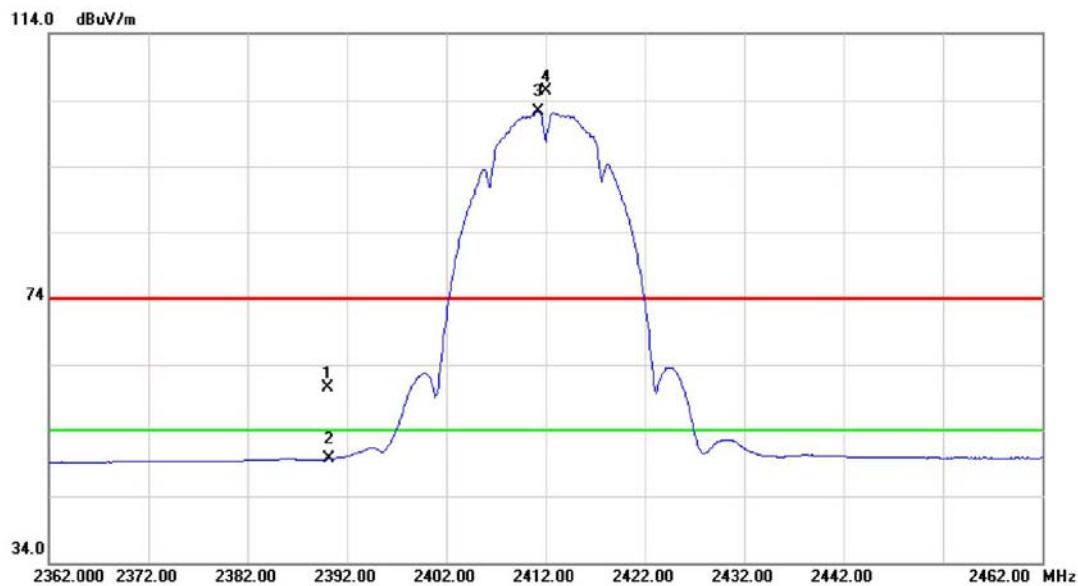
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4824.040	37.87	3.62	41.49	74.00	-32.51	peak
2	*	4824.040	31.66	3.62	35.28	54.00	-18.72	AVG

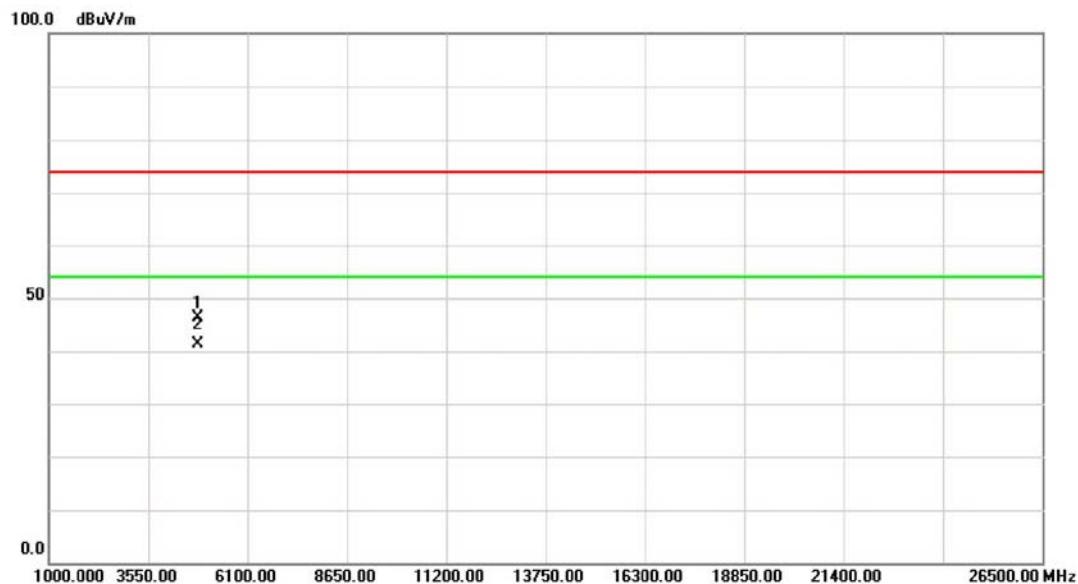
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Detector	Over dB	Comment
1		2390.000	26.95	33.54	60.49	74.00	-13.51	peak	
2		2390.000	16.09	33.54	49.63	54.00	-4.37	AVG	
3	*	2411.200	68.77	33.57	102.34	54.00	48.34	AVG	no limit
4	X	2412.000	71.65	33.57	105.22	74.00	31.22	peak	no limit

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

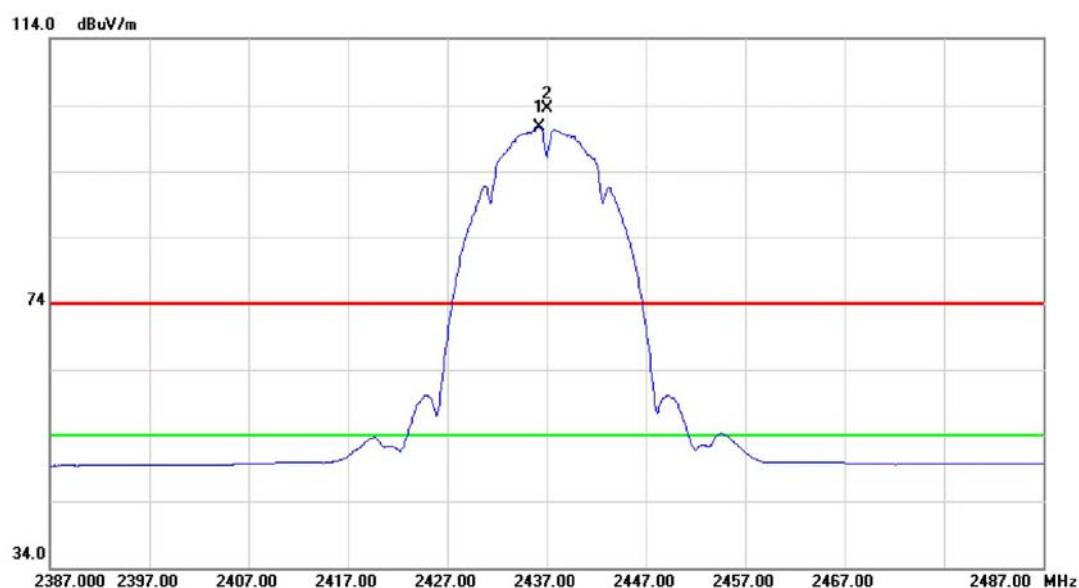
Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4824.080	42.82	3.62	46.44	74.00	-27.56	peak
2	*	4824.080	37.84	3.62	41.46	54.00	-12.54	AVG

Orthogonal Axis : X

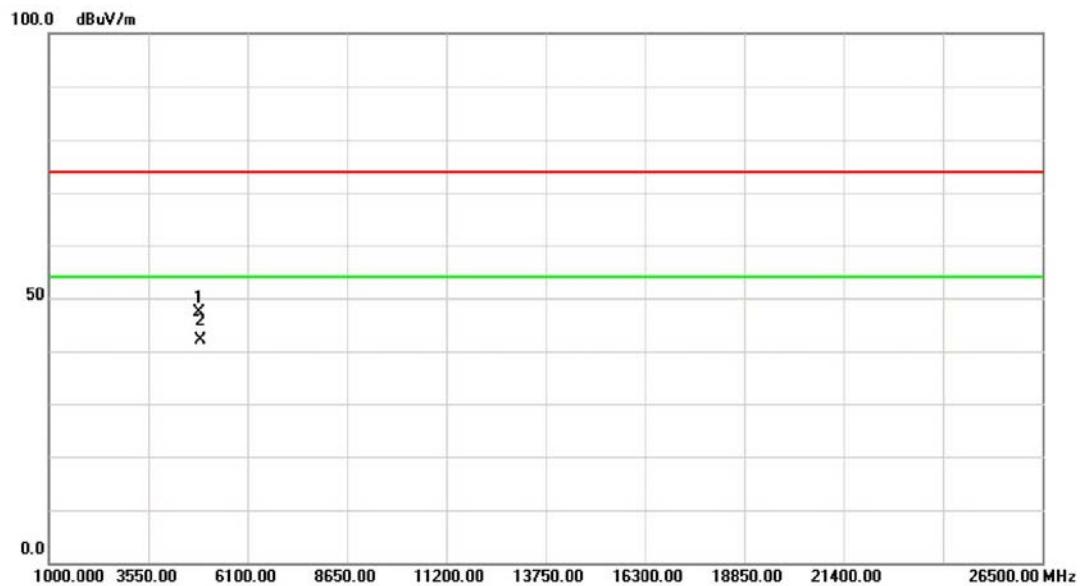
Test Mode : TX B MODE 2437MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1	*	2436.200	67.12	33.60	100.72	54.00	46.72	AVG	no limit
2	X	2437.000	69.89	33.60	103.49	74.00	29.49	peak	no limit

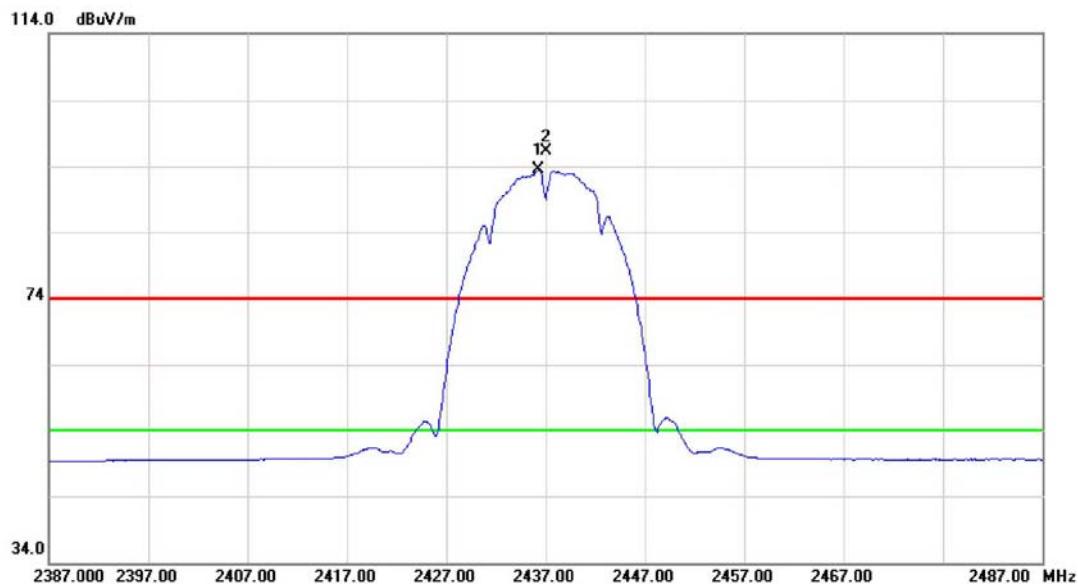
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4874.160	43.63	3.72	47.35	74.00	-26.65	peak
2	*	4874.160	38.36	3.72	42.08	54.00	-11.92	AVG

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

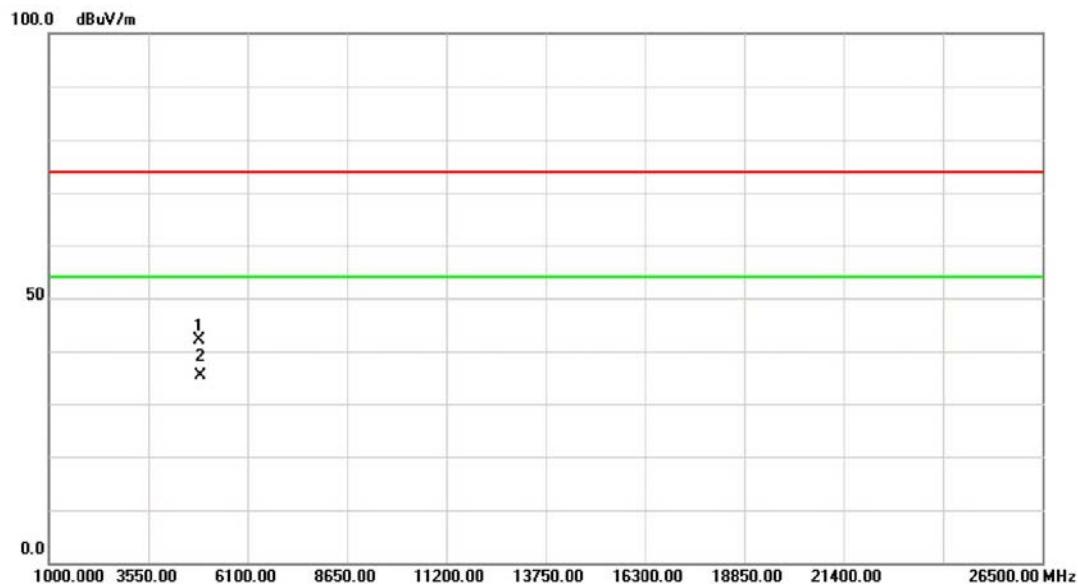
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Detector	Over	Comment
1	*	2436.200	59.81	33.60	93.41	54.00	39.41	AVG	no limit
2	X	2437.000	62.75	33.60	96.35	74.00	22.35	peak	no limit

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

Horizontal

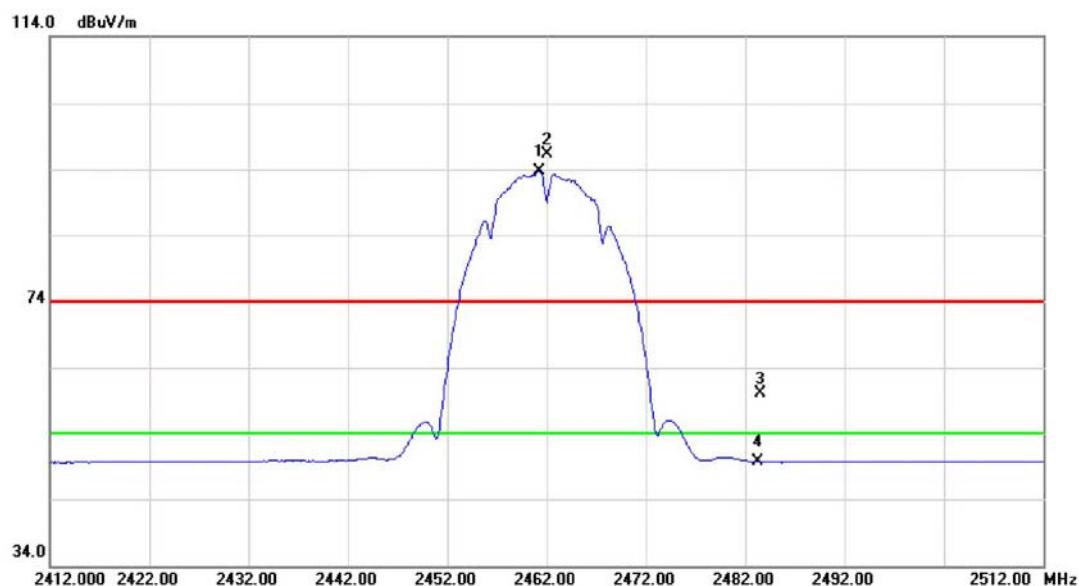


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4873.020	38.34	3.72	42.06	74.00	-31.94	peak
2	*	4873.020	31.75	3.72	35.47	54.00	-18.53	AVG

Orthogonal Axis : X

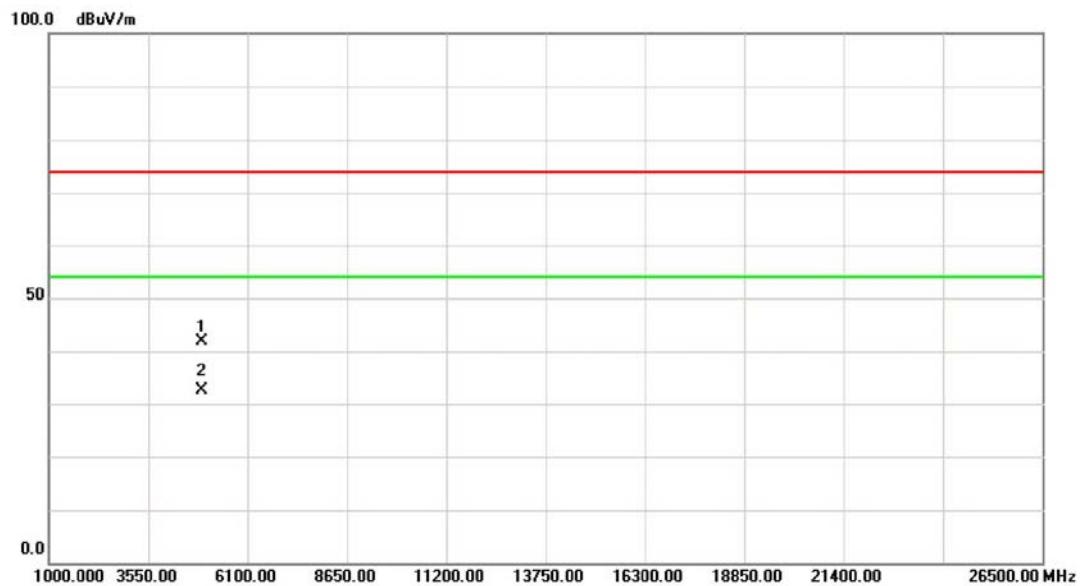
Test Mode : TX B MODE 2462MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1	*	2461.200	60.05	33.63	93.68	54.00	39.68	AVG	no limit
2	X	2462.000	62.74	33.63	96.37	74.00	22.37	peak	no limit
3		2483.500	26.47	33.66	60.13	74.00	-13.87	peak	
4		2483.500	16.01	33.66	49.67	54.00	-4.33	AVG	

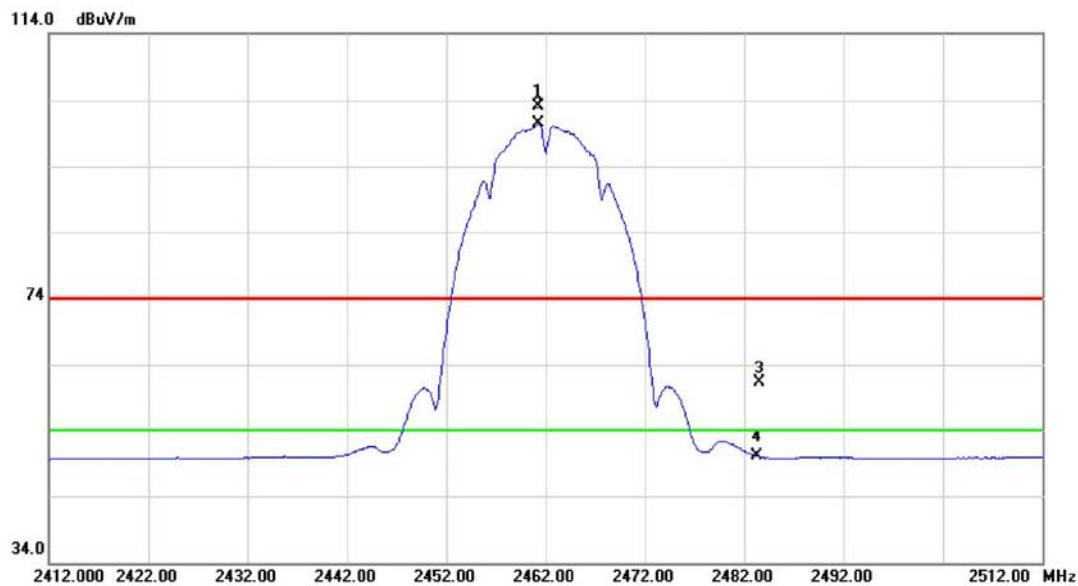
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4924.030	38.08	3.80	41.88	74.00	-32.12	peak
2	*	4924.030	28.91	3.80	32.71	54.00	-21.29	AVG

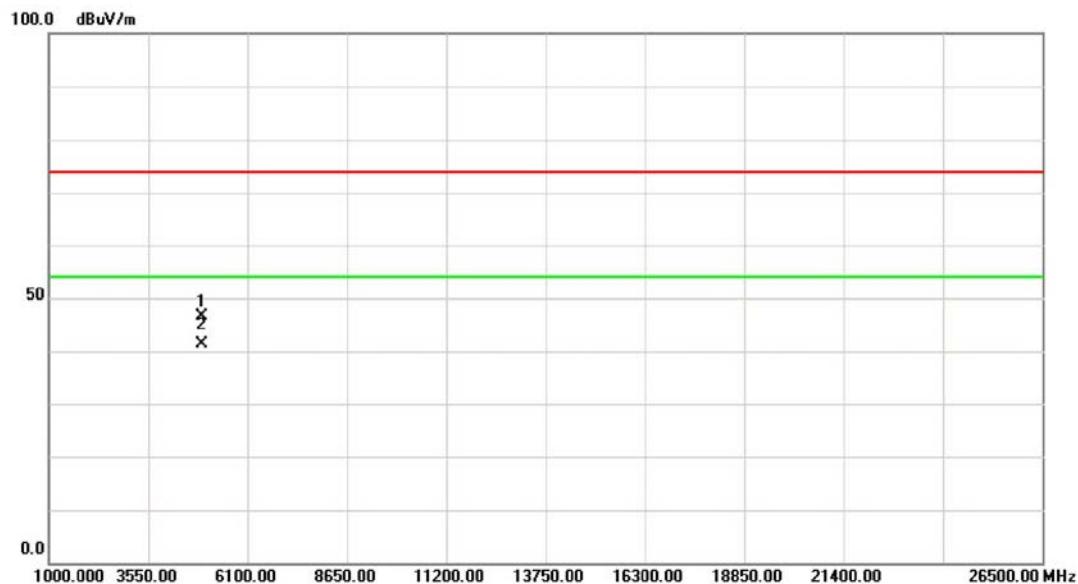
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2461.200	69.57	33.63	103.20	74.00	29.20	peak no limit
2	*	2461.200	66.79	33.63	100.42	54.00	46.42	AVG no limit
3		2483.500	27.64	33.66	61.30	74.00	-12.70	peak
4		2483.500	16.37	33.66	50.03	54.00	-3.97	AVG

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

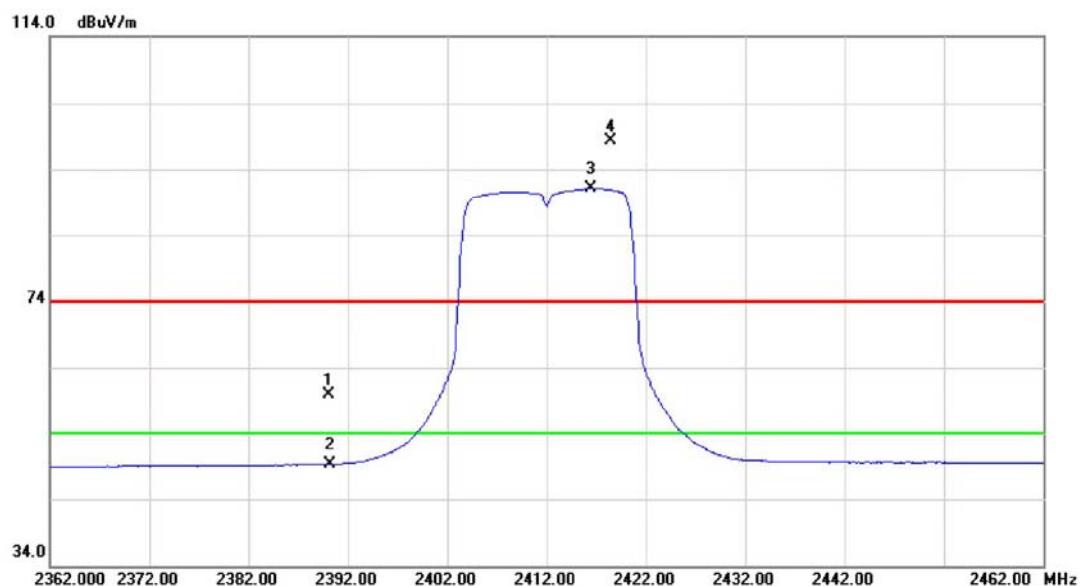
Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4924.940	42.78	3.80	46.58	74.00	-27.42	peak
2	*	4924.940	37.59	3.80	41.39	54.00	-12.61	AVG

Orthogonal Axis : X

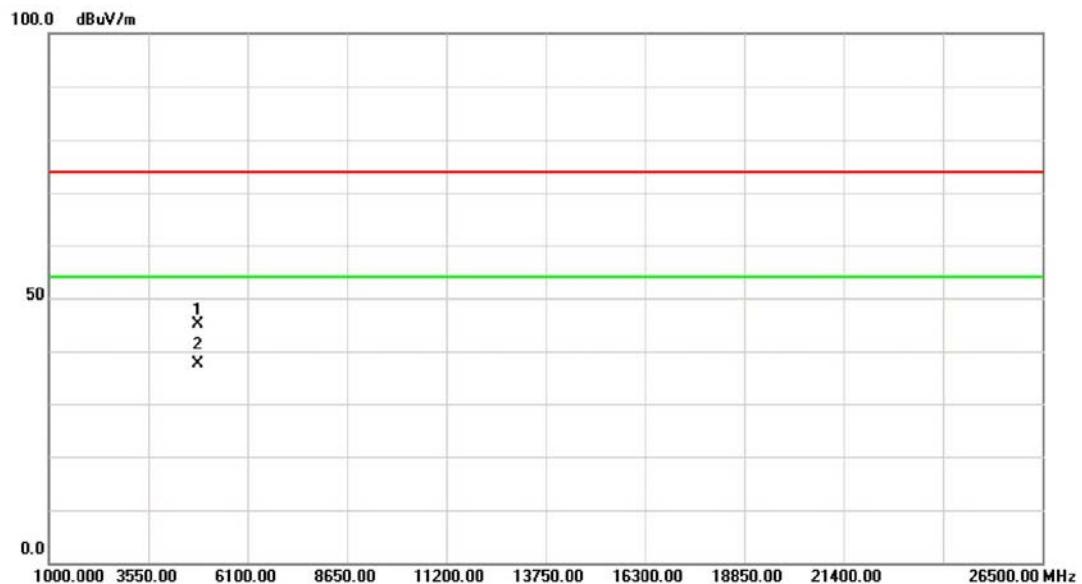
Test Mode : TX G MODE 2412MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	26.27	33.54	59.81	74.00	-14.19	peak	
2		2390.000	15.71	33.54	49.25	54.00	-4.75	AVG	
3	*	2416.400	57.51	33.57	91.08	54.00	37.08	AVG	no limit
4	X	2418.500	64.79	33.57	98.36	74.00	24.36	peak	no limit

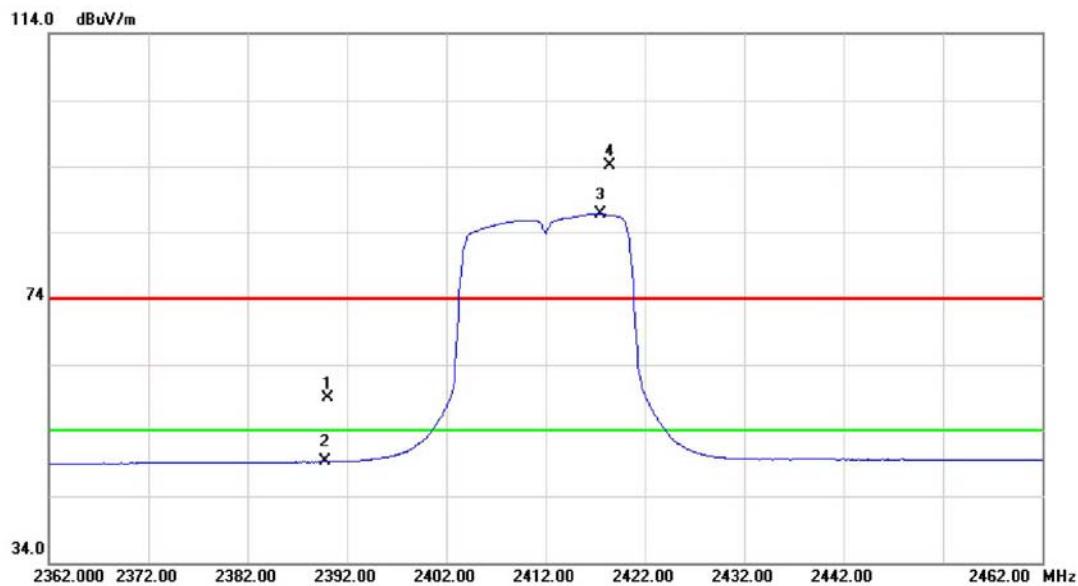
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.100	41.54	3.62	45.16	74.00	-28.84	peak	
2	*	4824.100	34.06	3.62	37.68	54.00	-16.32	AVG	

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

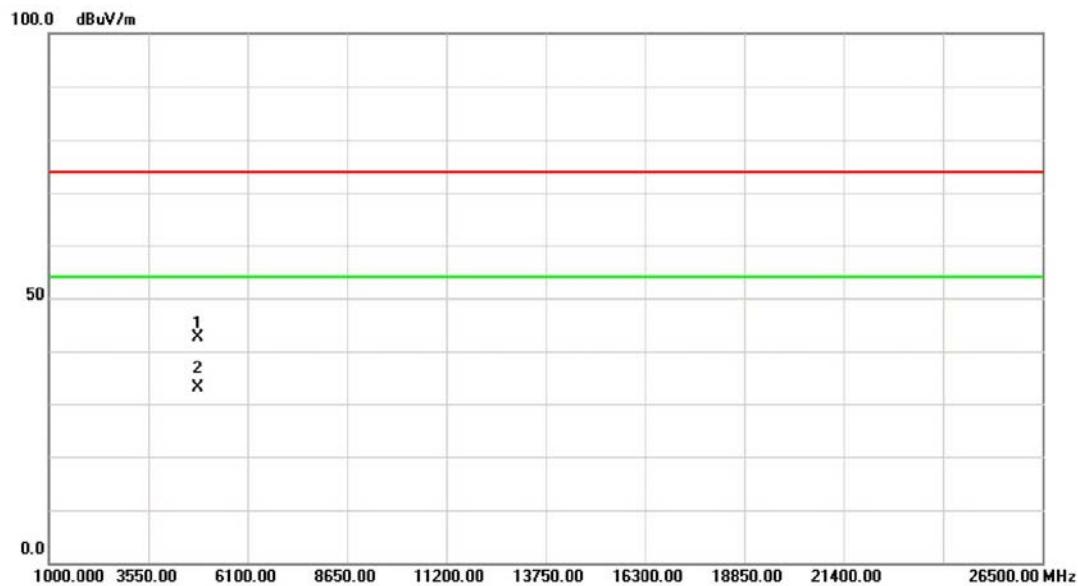
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.39	33.54	58.93	74.00	-15.07	peak	
2		2390.000	15.70	33.54	49.24	54.00	-4.76	AVG	
3	*	2417.500	53.09	33.57	86.66	54.00	32.66	AVG	no limit
4	X	2418.500	60.47	33.57	94.04	74.00	20.04	peak	no limit

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

Horizontal

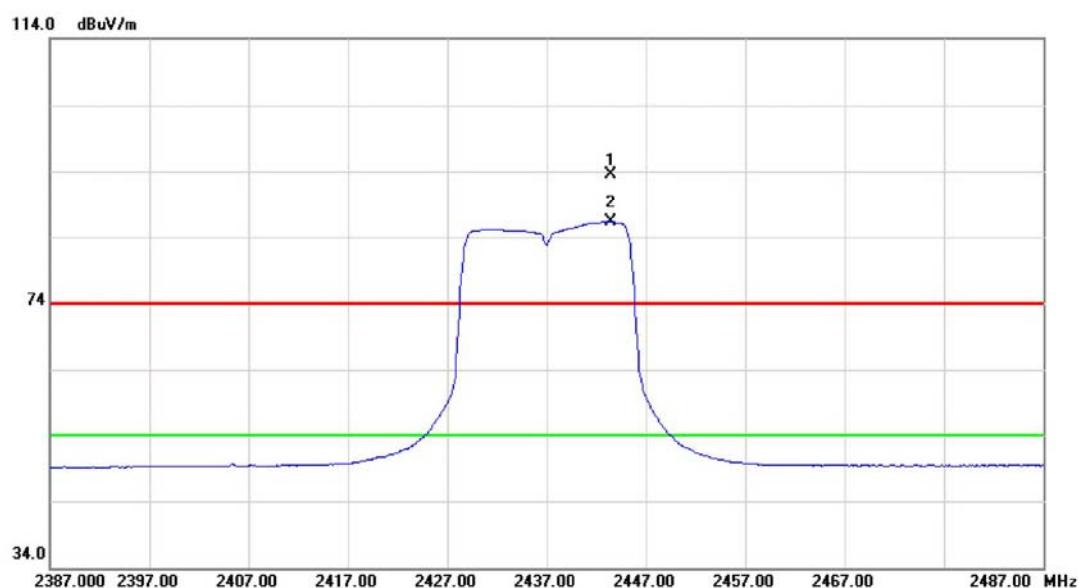


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4824.040	38.89	3.62	42.51	74.00	-31.49	peak
2	*	4824.040	29.57	3.62	33.19	54.00	-20.81	AVG

Orthogonal Axis : X

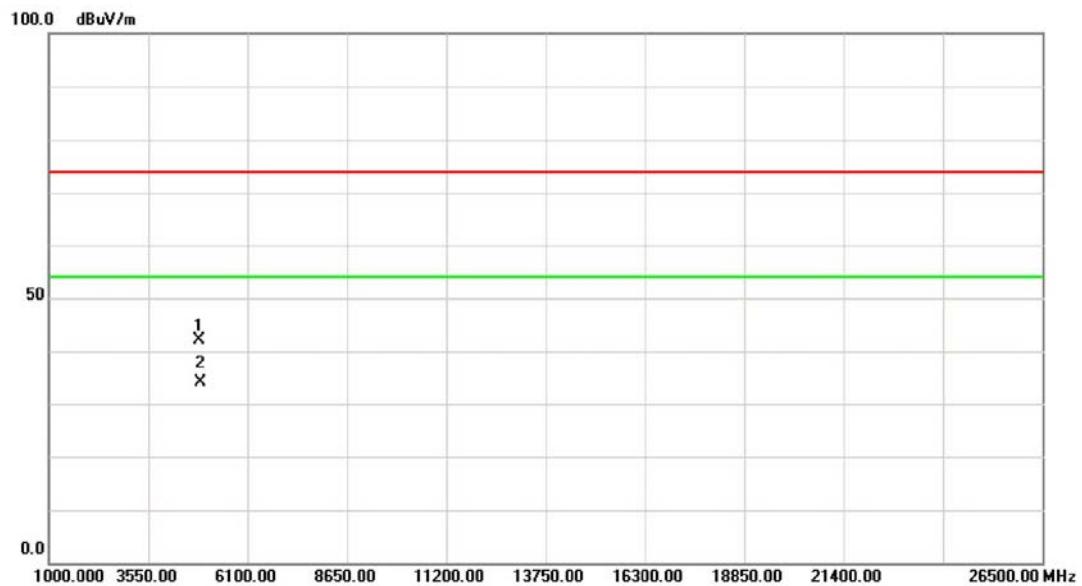
Test Mode : TX G MODE 2437MHz

Vertical



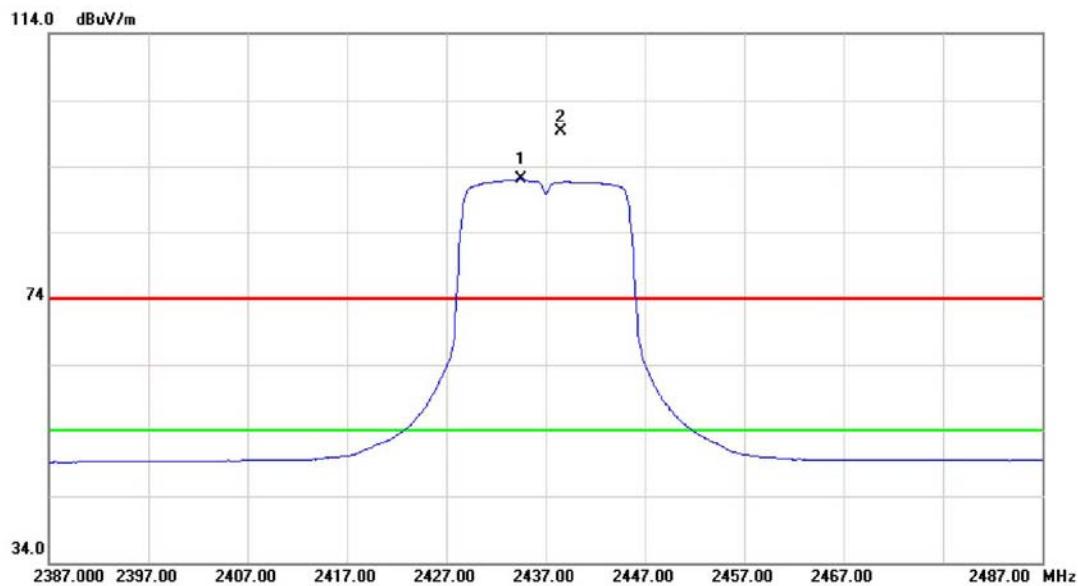
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2443.400	59.96	33.60	93.56	74.00	19.56	peak	no limit
2	*	2443.500	52.64	33.60	86.24	54.00	32.24	AVG	no limit

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

Vertical

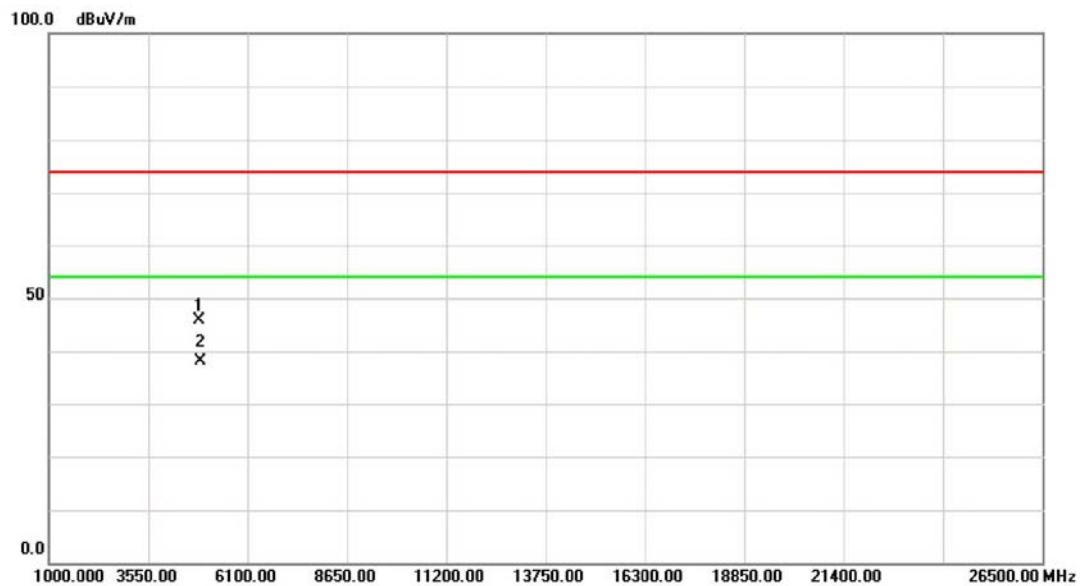
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4874.550	38.45	3.72	42.17	74.00	-31.83	peak
2	*	4874.550	30.48	3.72	34.20	54.00	-19.80	AVG

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	*	2434.500	58.41	33.60	92.01	54.00	38.01	AVG no limit
2	X	2438.500	65.70	33.60	99.30	74.00	25.30	peak no limit

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

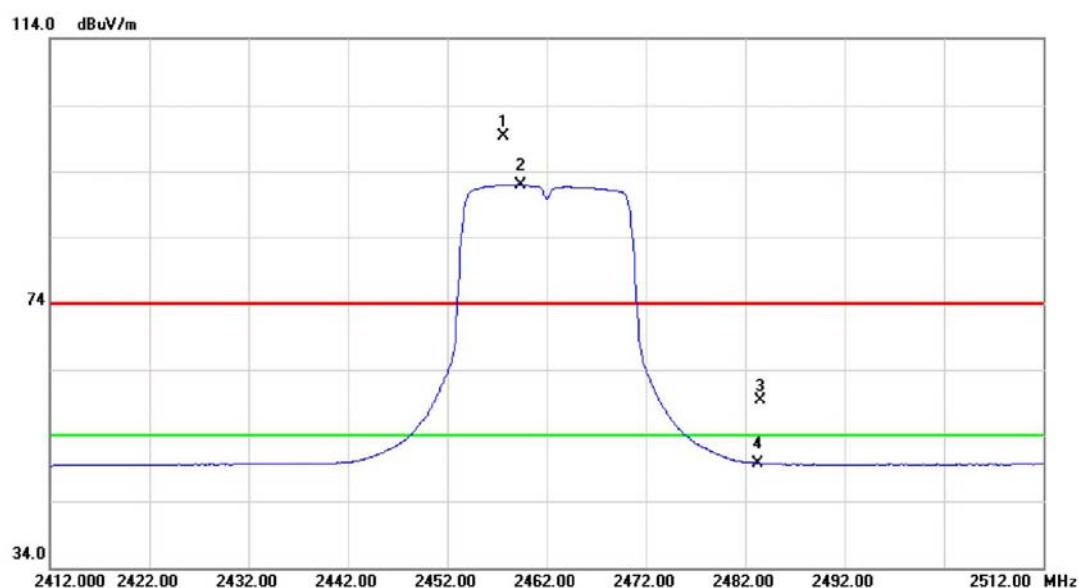
Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4874.190	42.10	3.72	45.82	74.00	-28.18	peak
2	*	4874.190	34.48	3.72	38.20	54.00	-15.80	AVG

Orthogonal Axis : X

Test Mode : TX G MODE 2462MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1	X	2457.600	65.72	33.63	99.35	74.00	25.35	peak	no limit
2	*	2459.400	58.35	33.63	91.98	54.00	37.98	AVG	no limit
3		2483.500	25.64	33.66	59.30	74.00	-14.70	peak	
4		2483.500	16.09	33.66	49.75	54.00	-4.25	AVG	

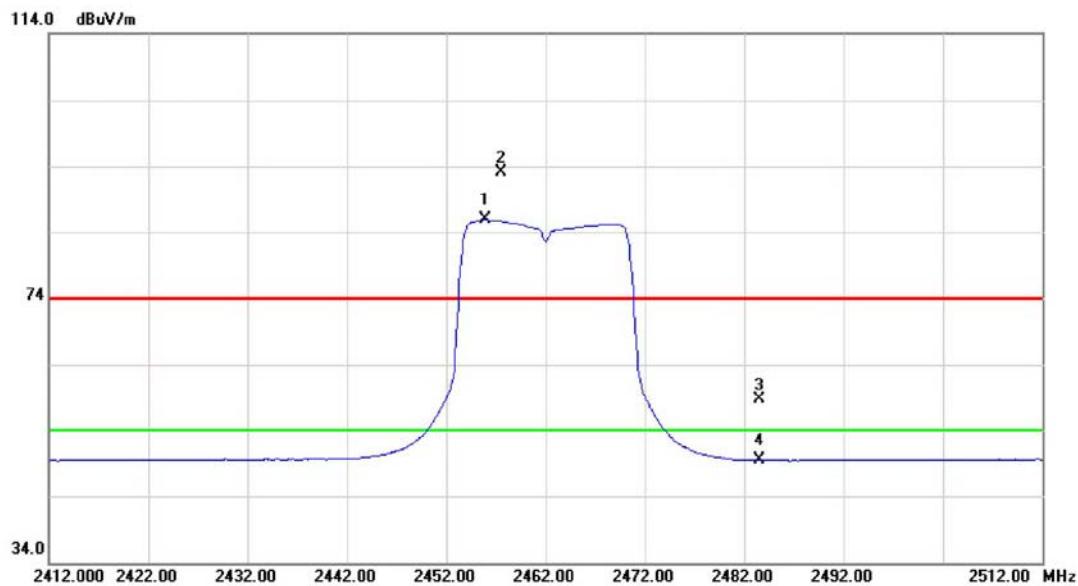
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.550	43.83	3.80	47.63	74.00	-26.37	peak	
2	*	4924.550	34.37	3.80	38.17	54.00	-15.83	AVG	

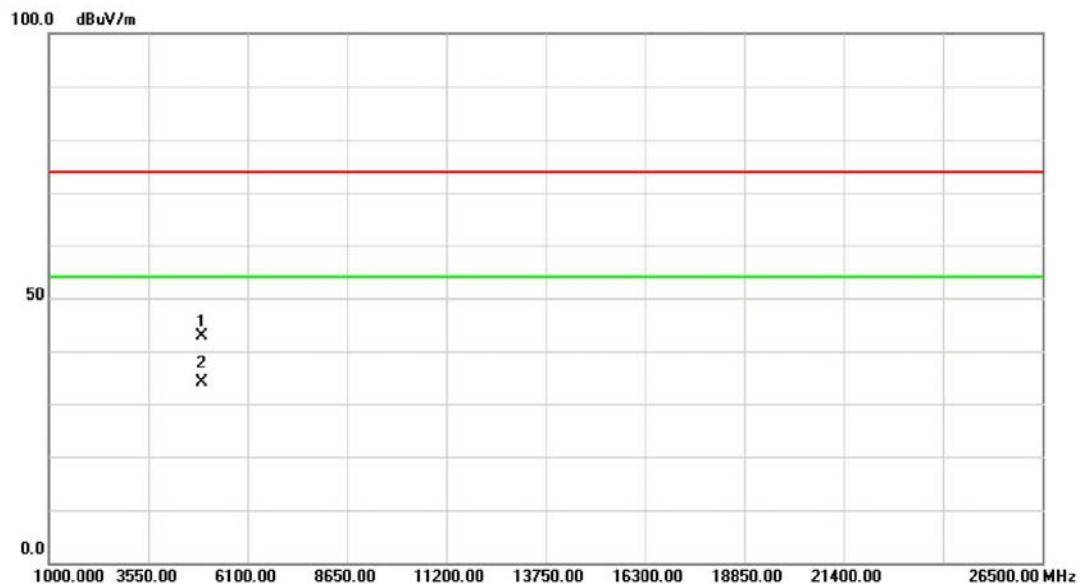
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Detector	Over dB	Comment
1	*	2455.900	52.19	33.62	85.81	54.00	31.81	AVG	no limit
2	X	2457.500	59.48	33.63	93.11	74.00	19.11	peak	no limit
3		2483.500	25.03	33.66	58.69	74.00	-15.31	peak	
4		2483.500	15.83	33.66	49.49	54.00	-4.51	AVG	

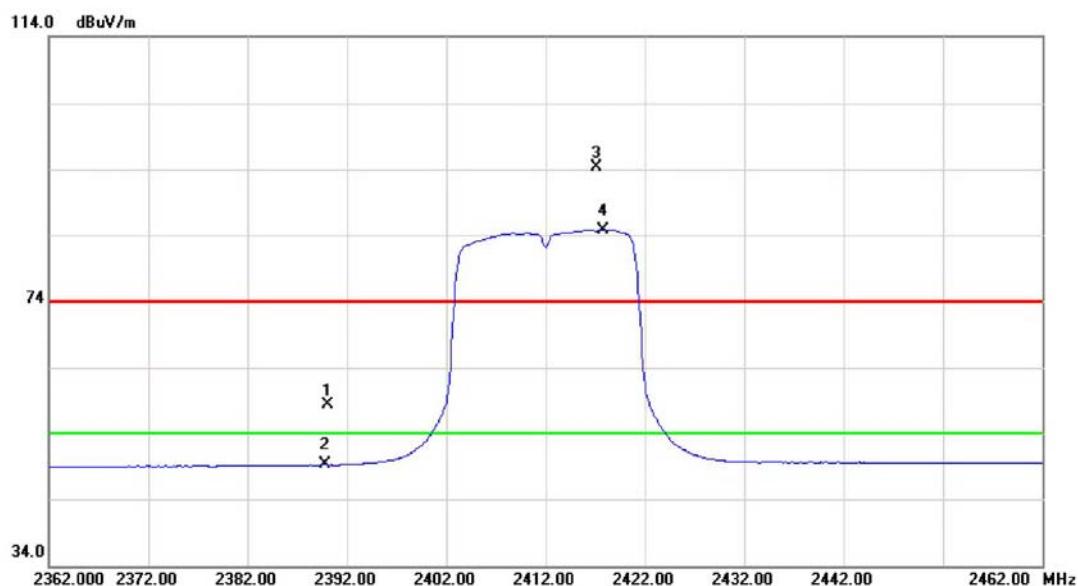
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4923.210	39.07	3.80	42.87	74.00	-31.13	peak
2	*	4923.210	30.26	3.80	34.06	54.00	-19.94	AVG

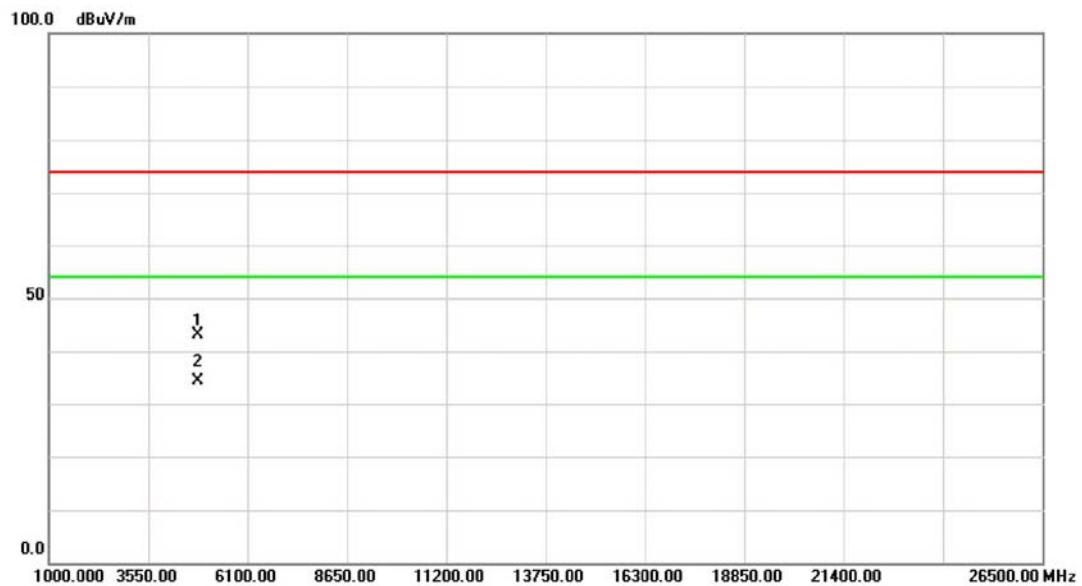
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	24.70	33.54	58.24	74.00	-15.76	peak	
2		2390.000	15.67	33.54	49.21	54.00	-4.79	AVG	
3	X	2417.100	60.77	33.57	94.34	74.00	20.34	peak	no limit
4	*	2417.800	51.18	33.57	84.75	54.00	30.75	AVG	no limit

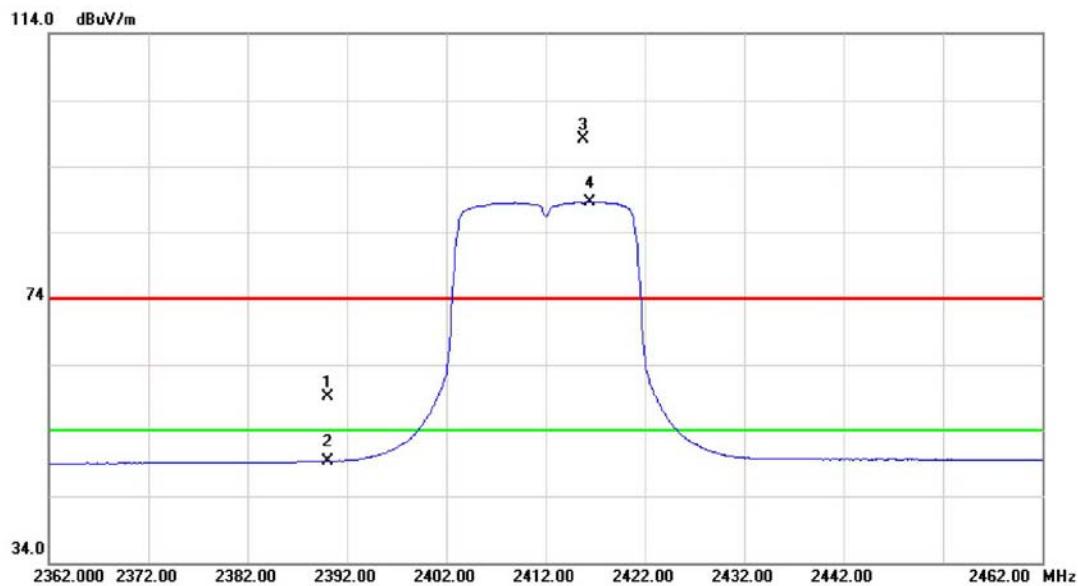
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4824.100	39.46	3.62	43.08	74.00	-30.92	peak
2	*	4824.100	30.65	3.62	34.27	54.00	-19.73	AVG

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

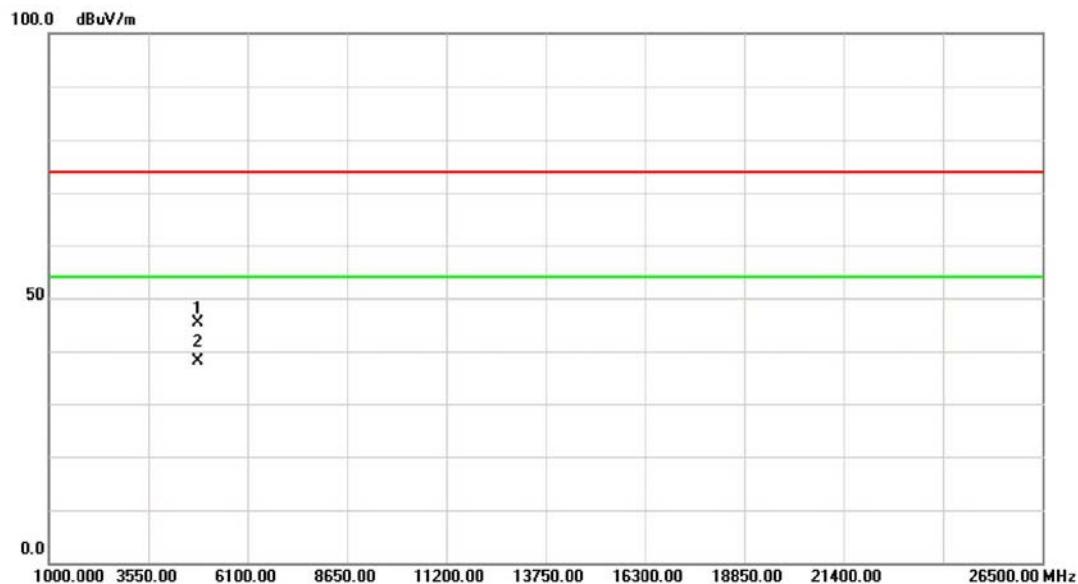
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.63	33.54	59.17	74.00	-14.83	peak	
2		2390.000	15.75	33.54	49.29	54.00	-4.71	AVG	
3	X	2415.800	64.46	33.57	98.03	74.00	24.03	peak	no limit
4	*	2416.500	55.00	33.57	88.57	54.00	34.57	AVG	no limit

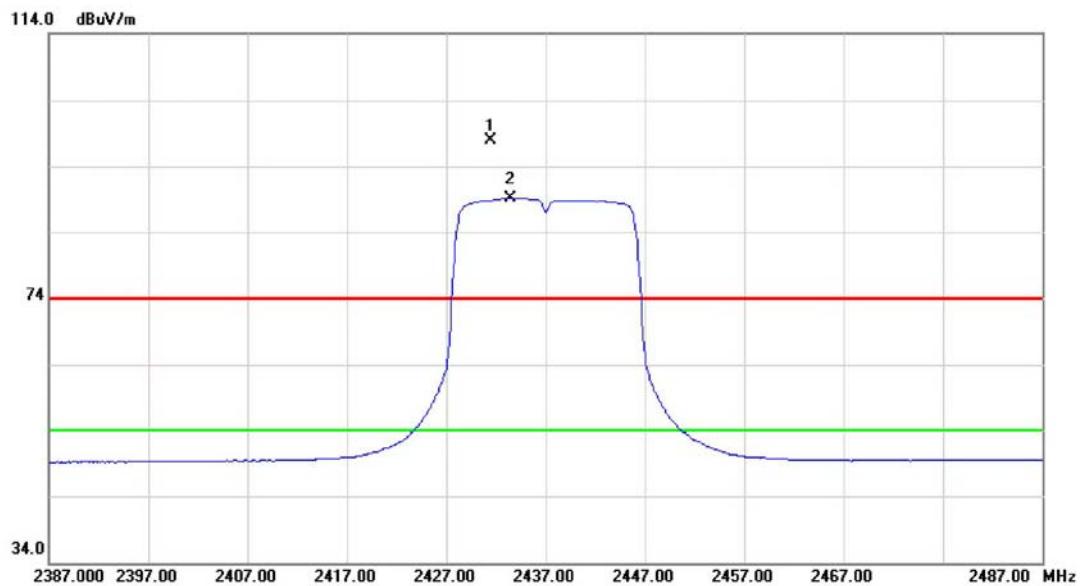
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4824.080	41.87	3.62	45.49	74.00	-28.51	peak
2	*	4824.080	34.55	3.62	38.17	54.00	-15.83	AVG

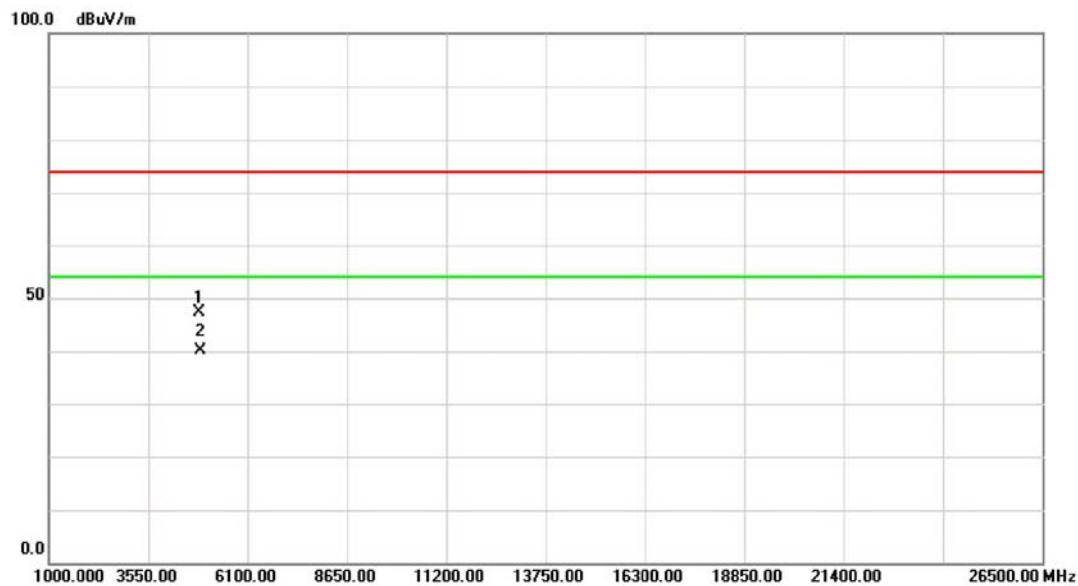
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

Vertical

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2431.400	64.33	33.60	97.93	74.00	23.93	peak	no limit
2	*	2433.500	55.47	33.60	89.07	54.00	35.07	AVG	no limit

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

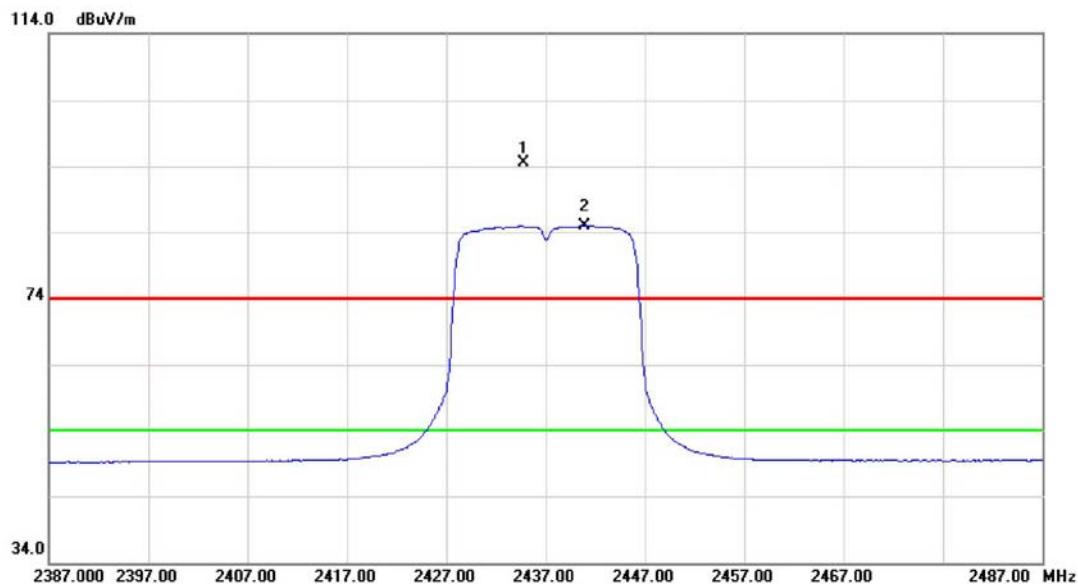
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4874.110	43.54	3.72	47.26	74.00	-26.74	peak
2	*	4874.110	36.30	3.72	40.02	54.00	-13.98	AVG

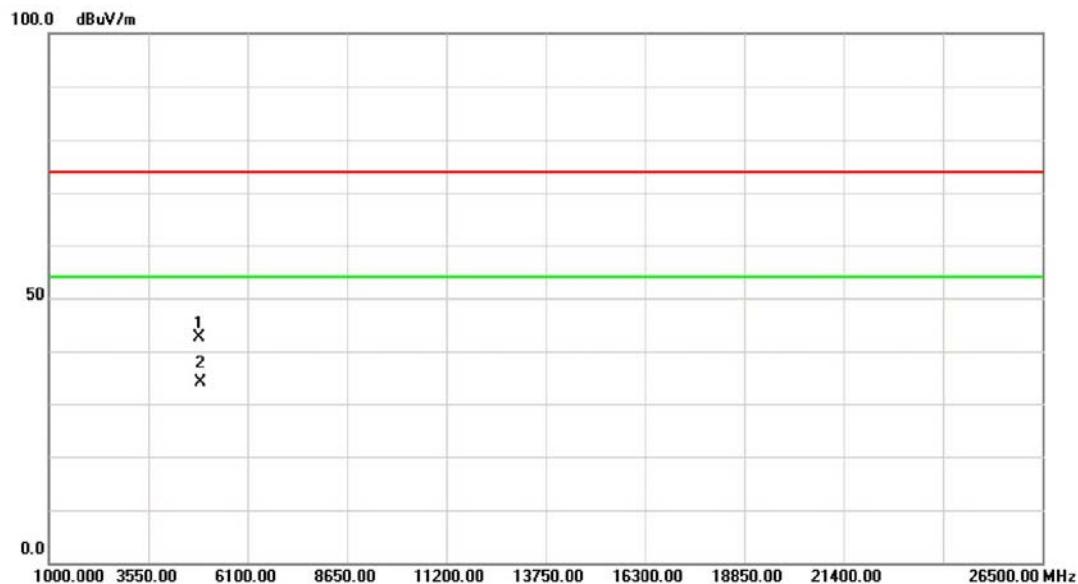
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2434.800	60.96	33.60	94.56	74.00	20.56	peak no limit
2	*	2440.900	51.33	33.60	84.93	54.00	30.93	AVG no limit

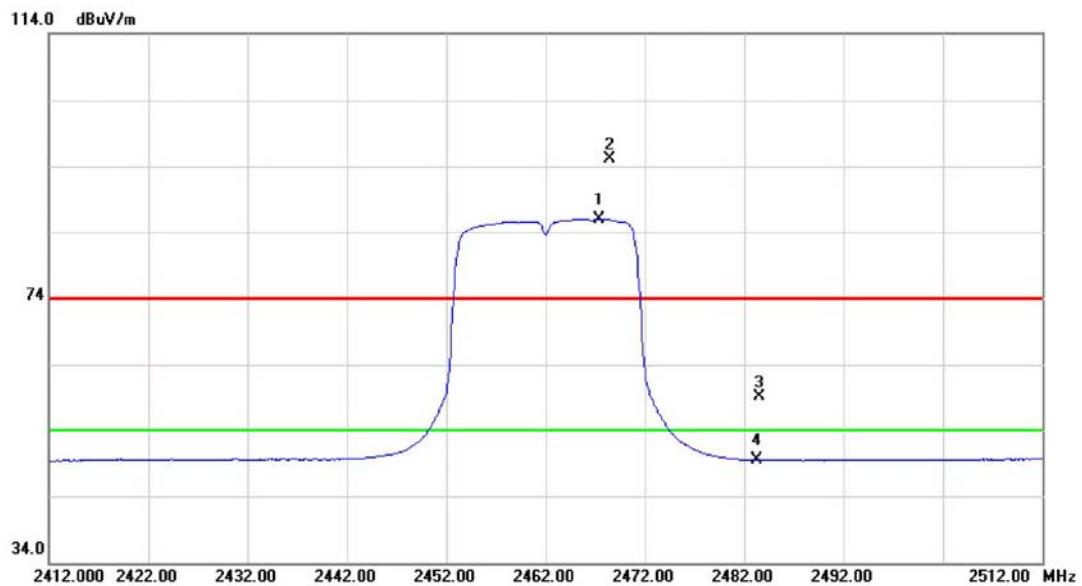
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4874.210	38.94	3.72	42.66	74.00	-31.34	peak
2	*	4874.210	30.37	3.72	34.09	54.00	-19.91	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	*	2467.400	52.30	33.63	85.93	54.00	31.93	AVG	no limit
2	X	2468.500	61.40	33.63	95.03	74.00	21.03	peak	no limit
3		2483.500	25.36	33.66	59.02	74.00	-14.98	peak	
4		2483.500	15.85	33.66	49.51	54.00	-4.49	AVG	

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

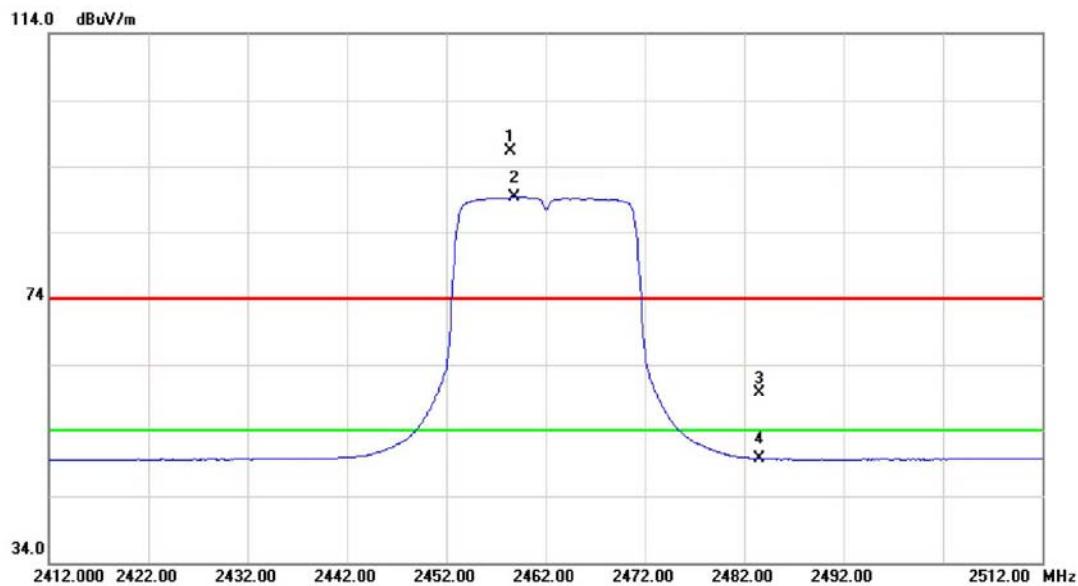
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4924.880	37.48	3.80	41.28	74.00	-32.72	peak
2	*	4924.880	30.26	3.80	34.06	54.00	-19.94	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	X	2458.500	62.72	33.63	96.35	74.00	22.35	peak	no limit
2	*	2458.900	55.65	33.63	89.28	54.00	35.28	AVG	no limit
3		2483.500	26.12	33.66	59.78	74.00	-14.22	peak	
4		2483.500	16.12	33.66	49.78	54.00	-4.22	AVG	

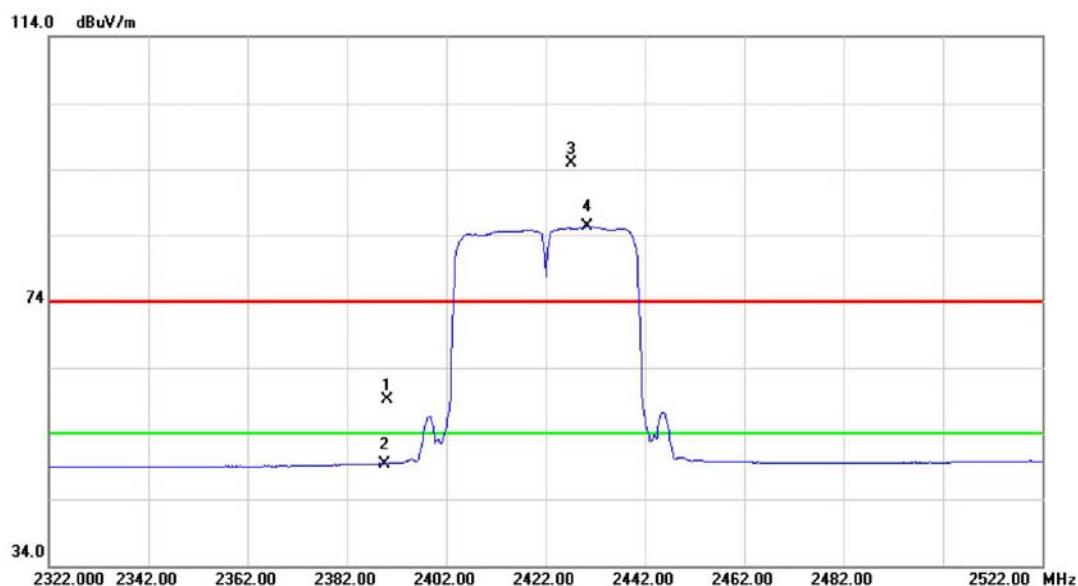
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4923.580	42.47	3.80	46.27	74.00	-27.73	peak
2	*	4923.580	36.08	3.80	39.88	54.00	-14.12	AVG

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

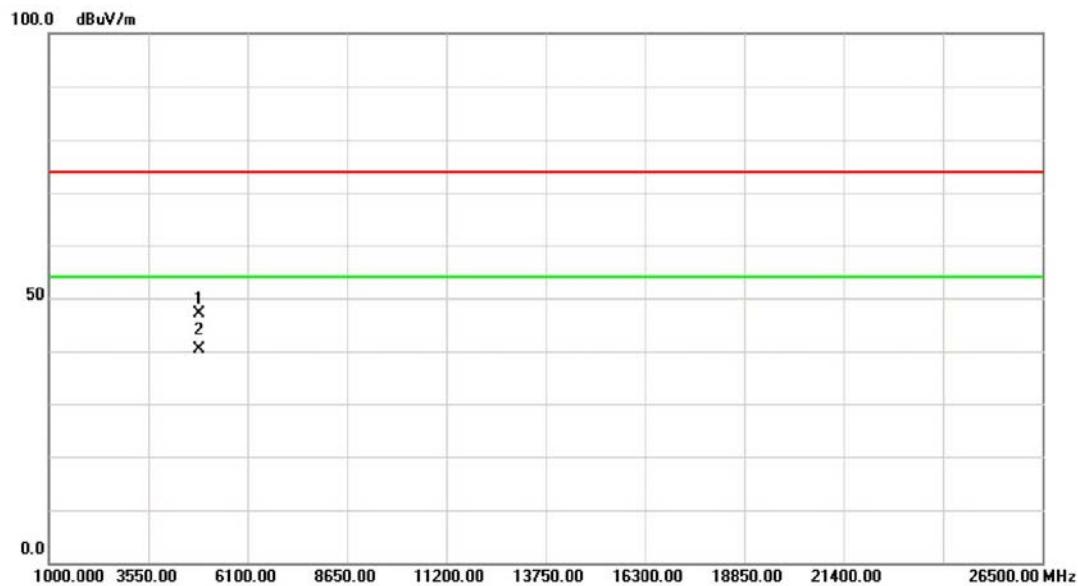
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	25.64	33.54	59.18	74.00	-14.82	peak	
2		2390.000	15.83	33.54	49.37	54.00	-4.63	AVG	
3	X	2427.200	61.25	33.59	94.84	74.00	20.84	peak	no limit
4	*	2430.400	51.62	33.59	85.21	54.00	31.21	AVG	no limit

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

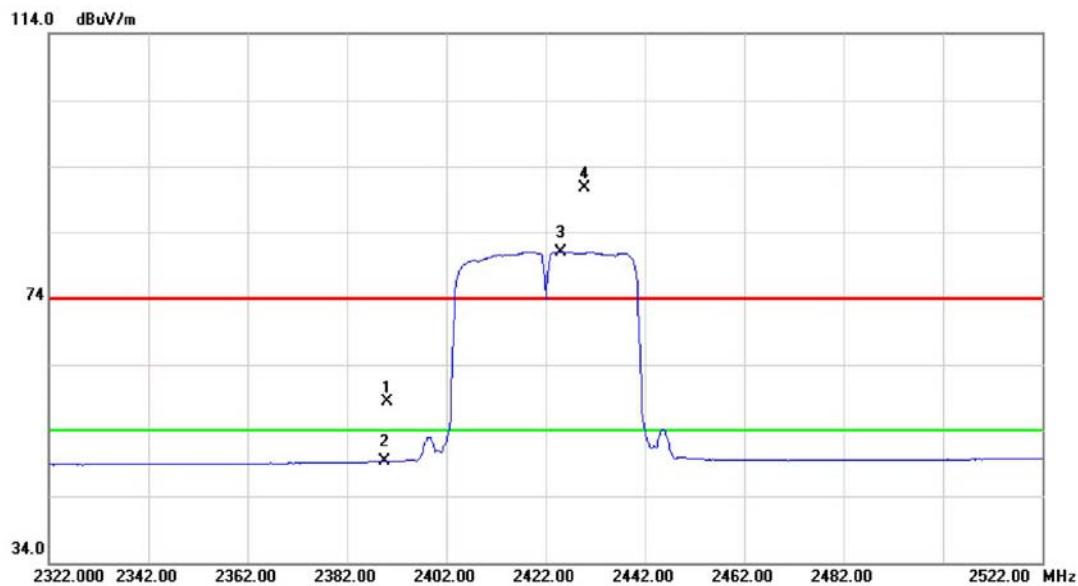
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4844.190	43.55	3.66	47.21	74.00	-26.79	peak
2	*	4844.190	36.80	3.66	40.46	54.00	-13.54	AVG

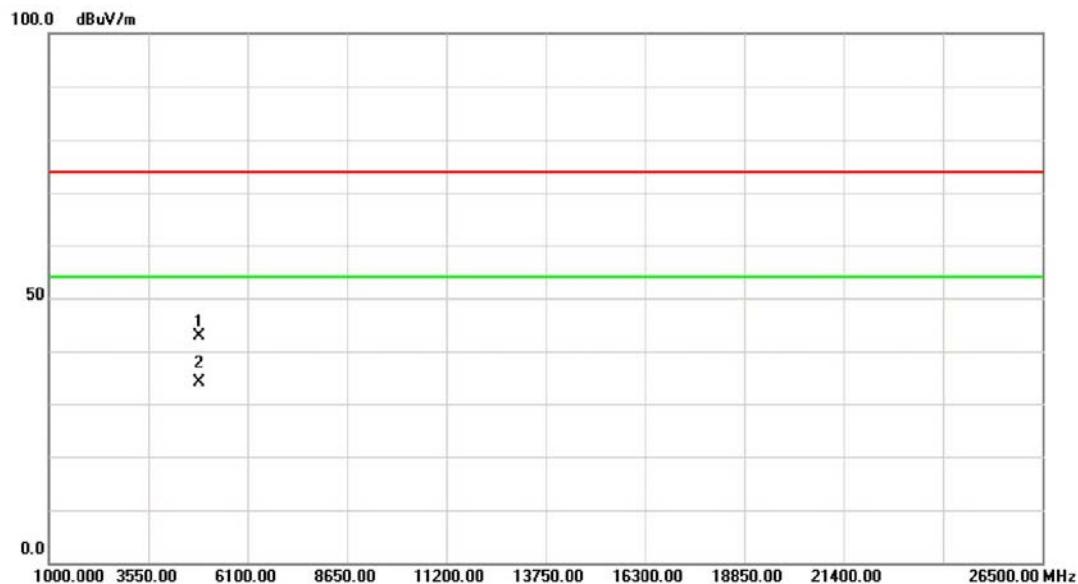
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

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	24.79	33.54	58.33	74.00	-15.67	peak	
2		2390.000	15.72	33.54	49.26	54.00	-4.74	AVG	
3	*	2425.000	47.40	33.58	80.98	54.00	26.98	AVG	no limit
4	X	2429.800	57.10	33.59	90.69	74.00	16.69	peak	no limit

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

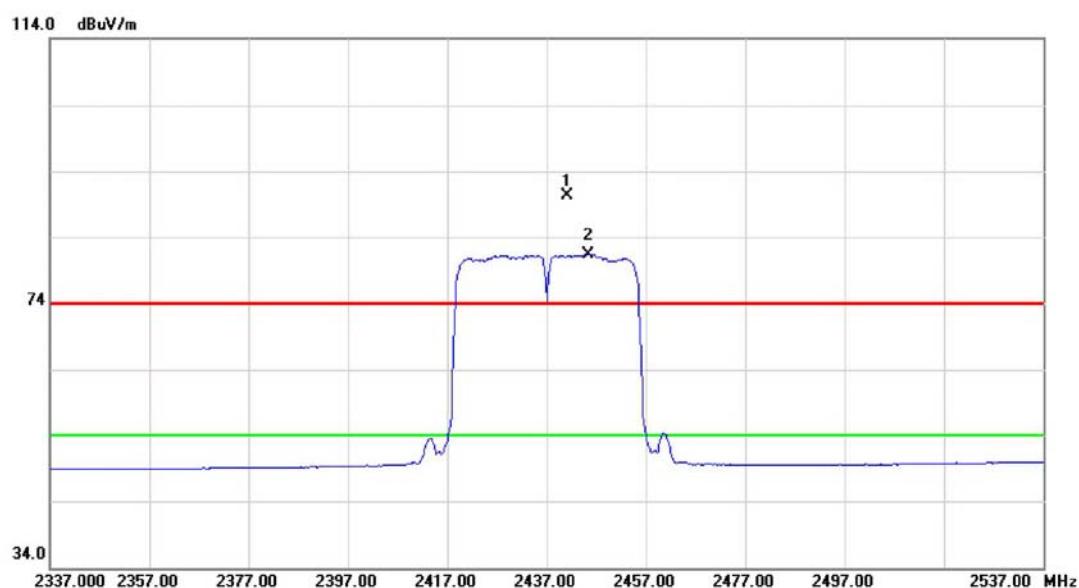
Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4844.640	39.33	3.66	42.99	74.00	-31.01	peak
2	*	4844.640	30.38	3.66	34.04	54.00	-19.96	AVG

Orthogonal Axis : X

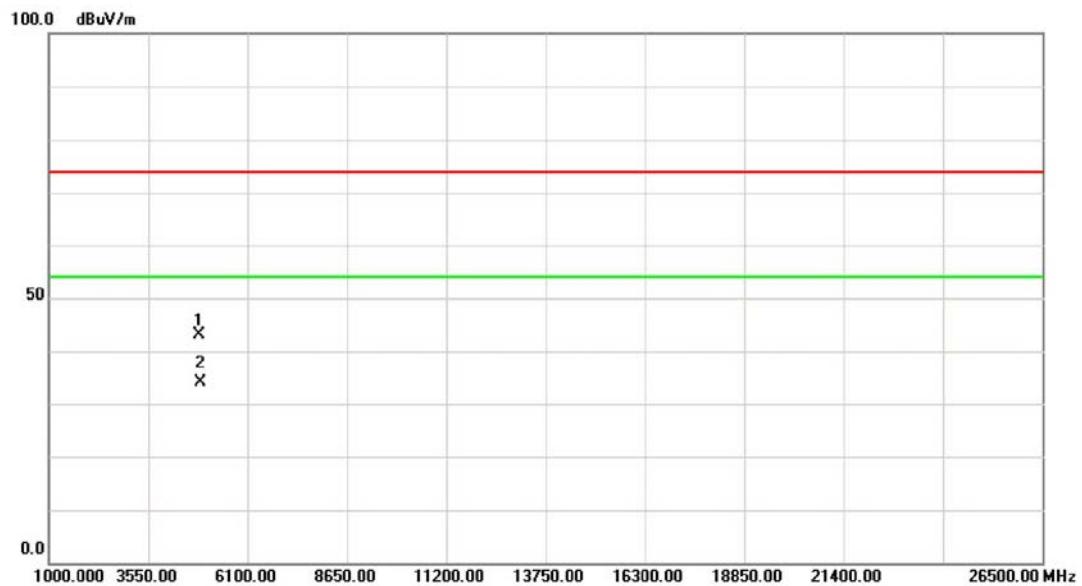
Test Mode : TX N-40M MODE 2437MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2441.000	56.69	33.60	90.29	74.00	16.29	peak	no limit
2	*	2445.400	47.68	33.61	81.29	54.00	27.29	AVG	no limit

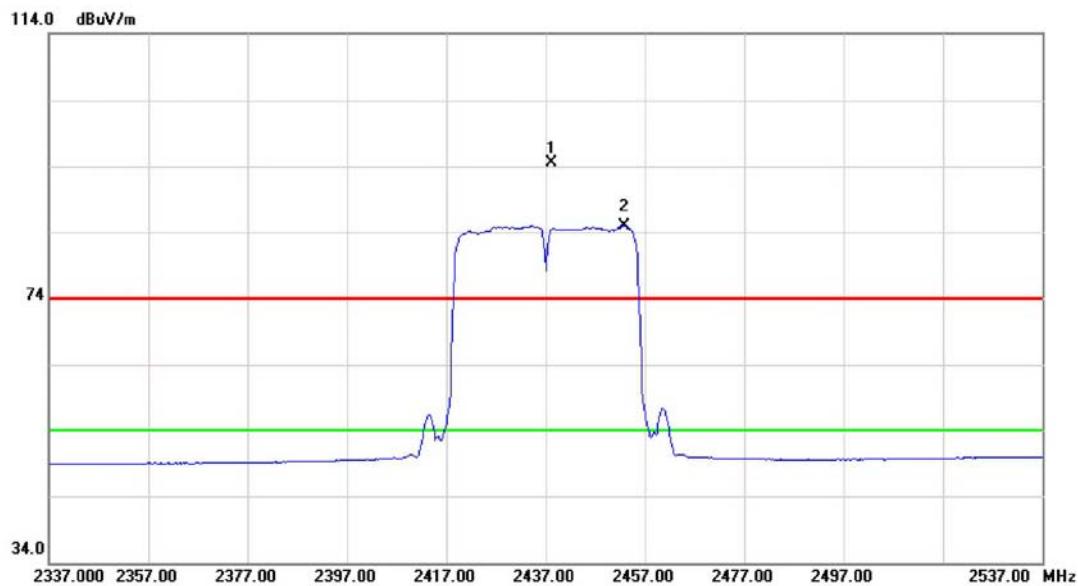
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4874.500	39.47	3.72	43.19	74.00	-30.81	peak
2	*	4874.500	30.50	3.72	34.22	54.00	-19.78	AVG

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

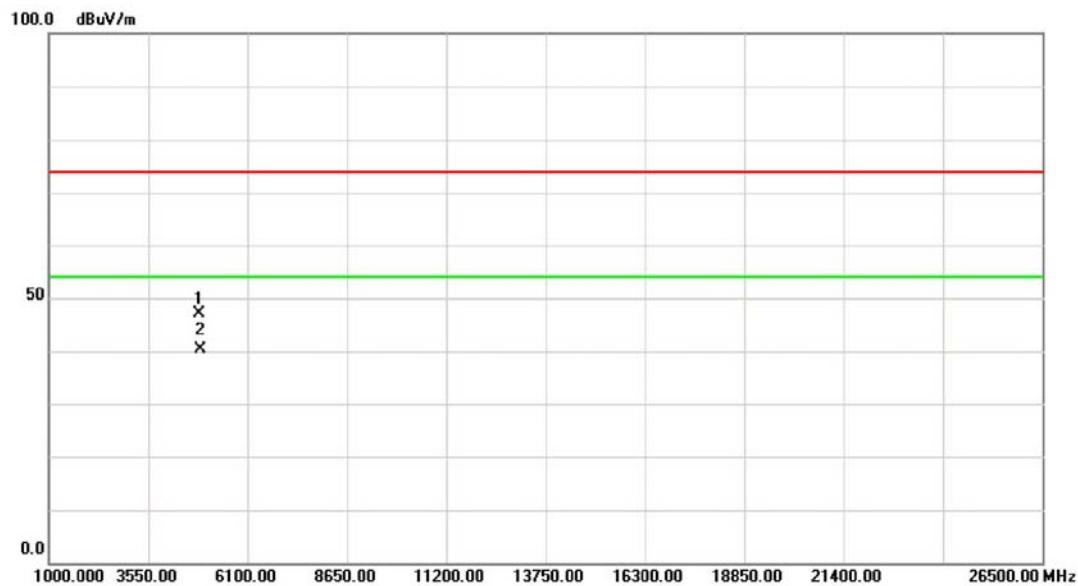
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2438.200	60.81	33.60	94.41	74.00	20.41	peak no limit
2	*	2452.800	51.27	33.62	84.89	54.00	30.89	AVG no limit

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

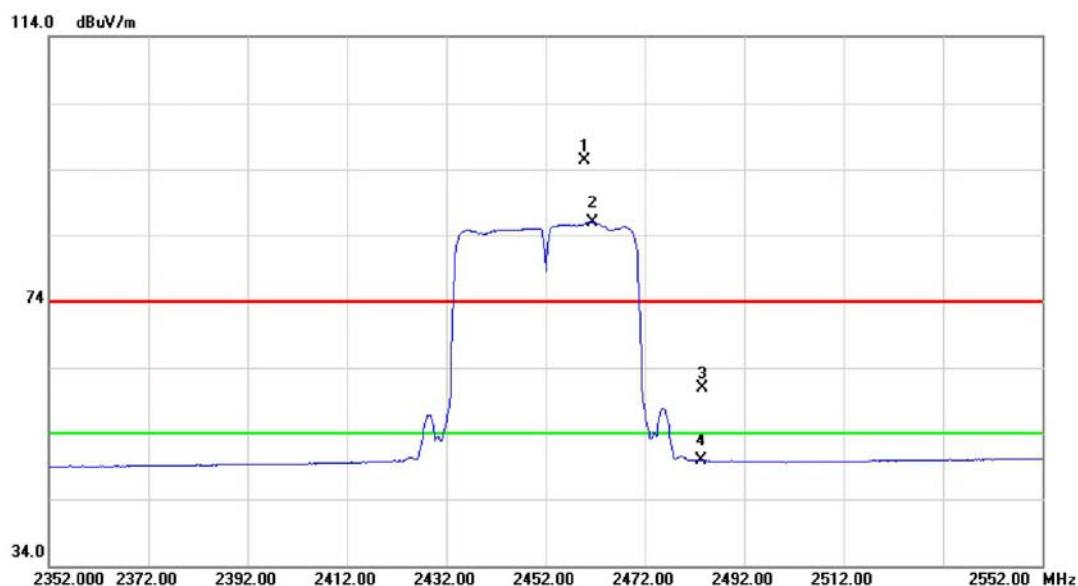
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.960	43.44	3.72	47.16	74.00	-26.84	peak	
2	*	4874.960	36.56	3.72	40.28	54.00	-13.72	AVG	

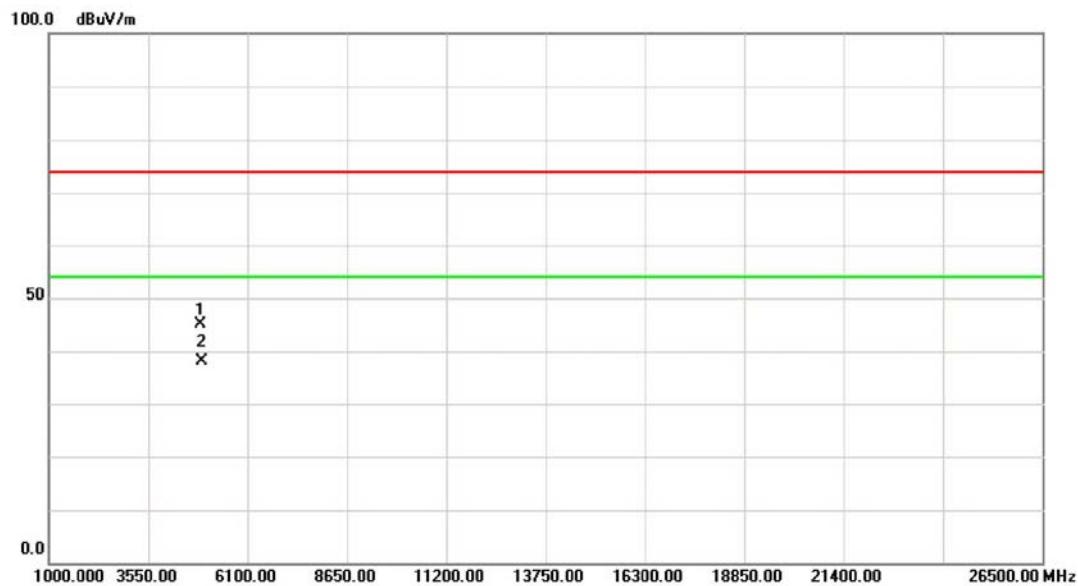
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	2459.800	61.74	33.63	95.37	74.00	21.37	peak	no limit
2	*	2461.400	52.29	33.63	85.92	54.00	31.92	AVG	no limit
3		2483.500	27.28	33.66	60.94	74.00	-13.06	peak	
4		2483.500	16.16	33.66	49.82	54.00	-4.18	AVG	

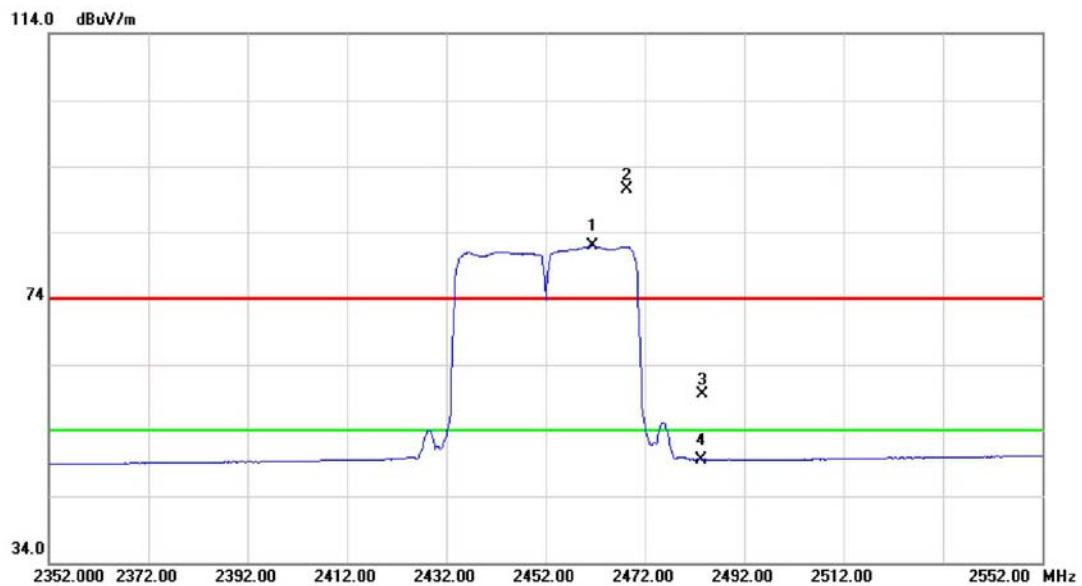
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4904.110	41.43	3.77	45.20	74.00	-28.80	peak
2	*	4904.110	34.42	3.77	38.19	54.00	-15.81	AVG

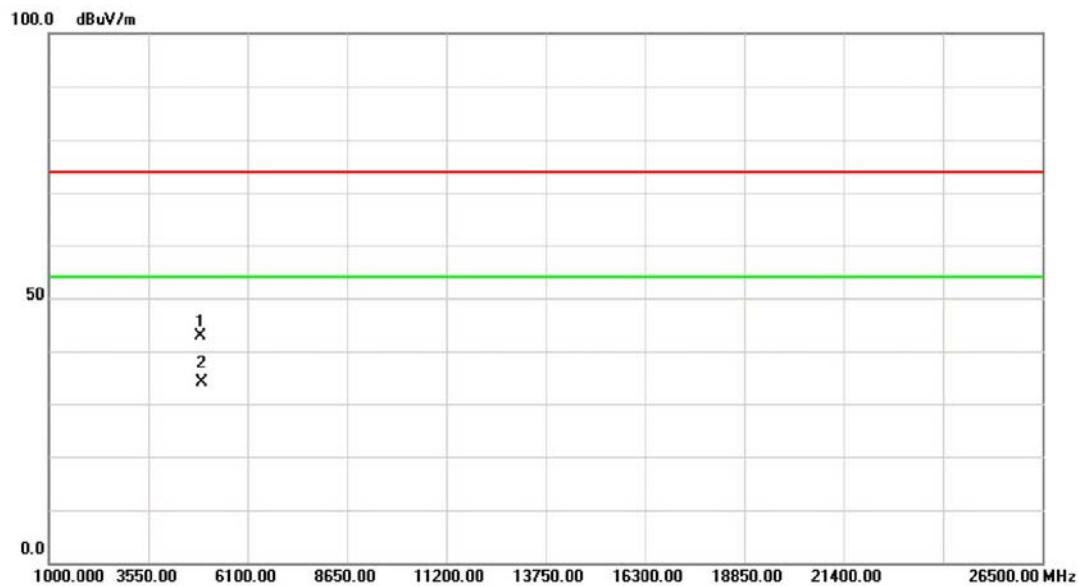
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Detector	Over dB	Comment
1	*	2461.400	48.27	33.63	81.90	54.00	27.90	AVG	no limit
2	X	2468.400	56.97	33.63	90.60	74.00	16.60	peak	no limit
3		2483.500	25.75	33.66	59.41	74.00	-14.59	peak	
4		2483.500	15.90	33.66	49.56	54.00	-4.44	AVG	

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

Horizontal

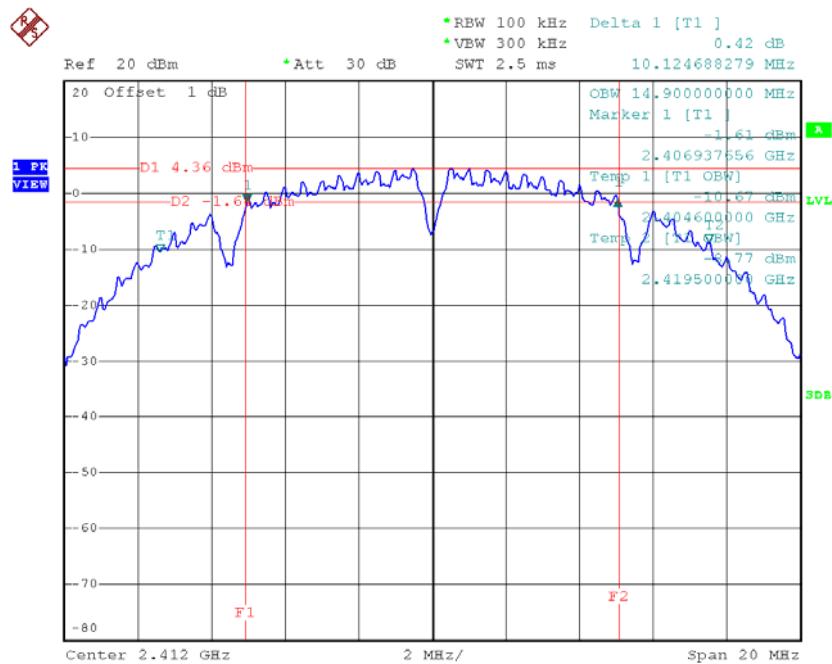
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4904.480	39.11	3.77	42.88	74.00	-31.12	peak
2	*	4904.480	30.42	3.77	34.19	54.00	-19.81	AVG

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

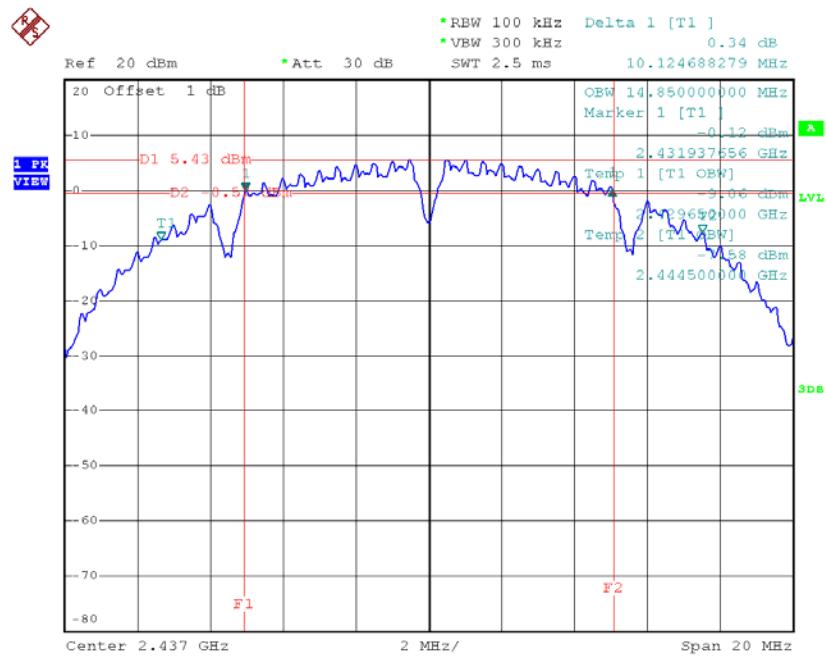
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412 MHz	10.12	14.90	500	Complies
2437 MHz	10.12	14.85	500	Complies
2462 MHz	10.12	14.85	500	Complies

TX CH01



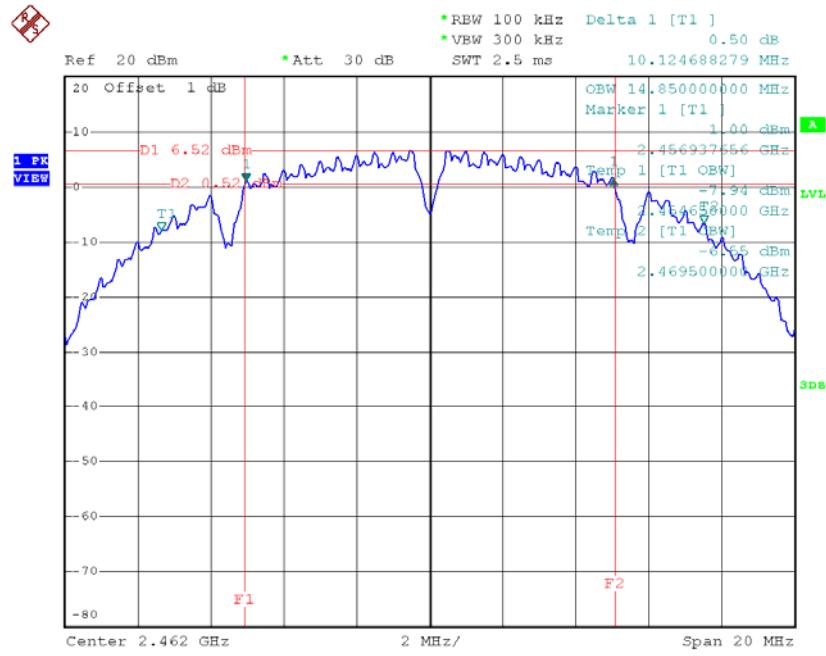
Date: 4.SEP.2014 17:01:30

TX CH06



Date: 4.SEP.2014 17:03:01

TX CH11

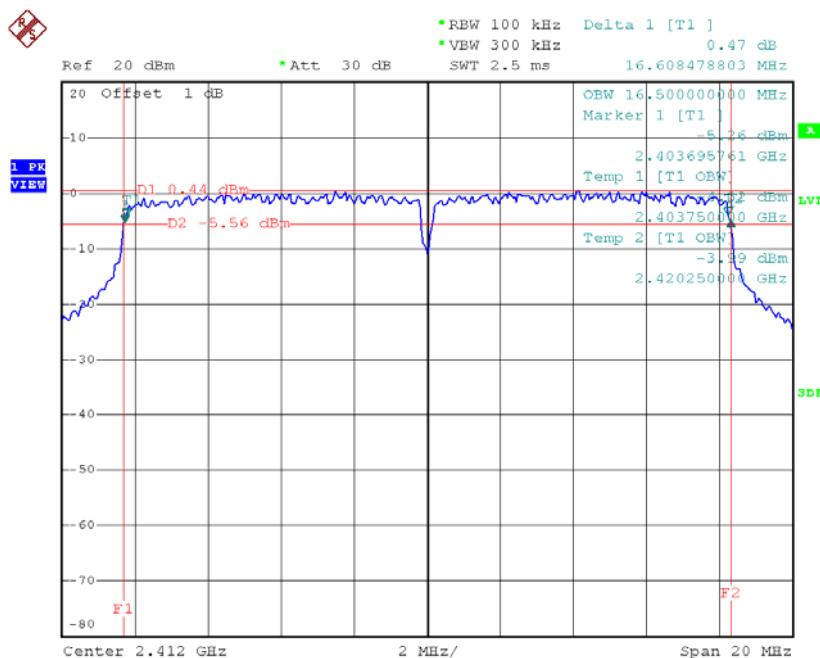


Date: 4.SEP.2014 17:04:16

Test Mode: TX G Mode_CH01/06/11

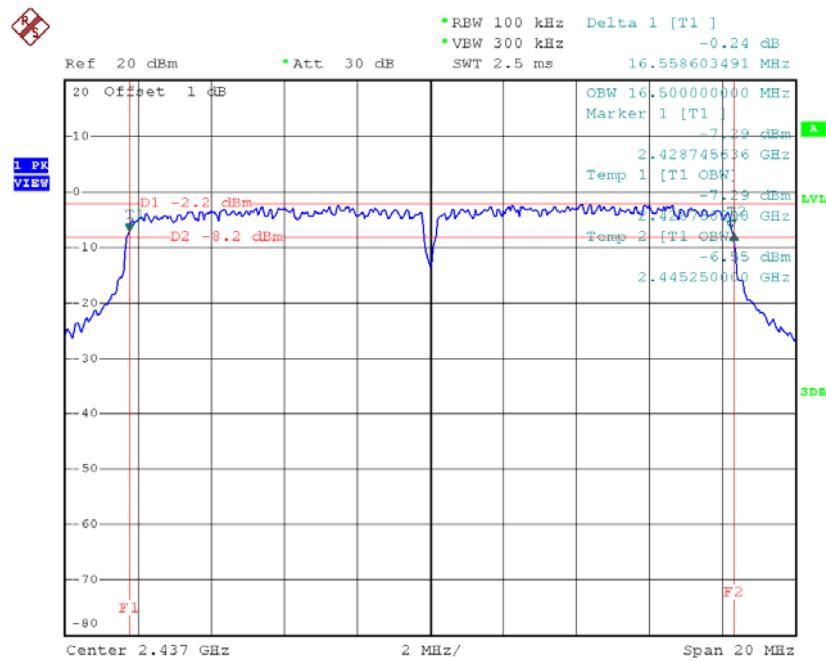
Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412 MHz	16.61	16.50	500	Complies
2437 MHz	16.56	16.50	500	Complies
2462 MHz	16.56	16.50	500	Complies

TX CH01



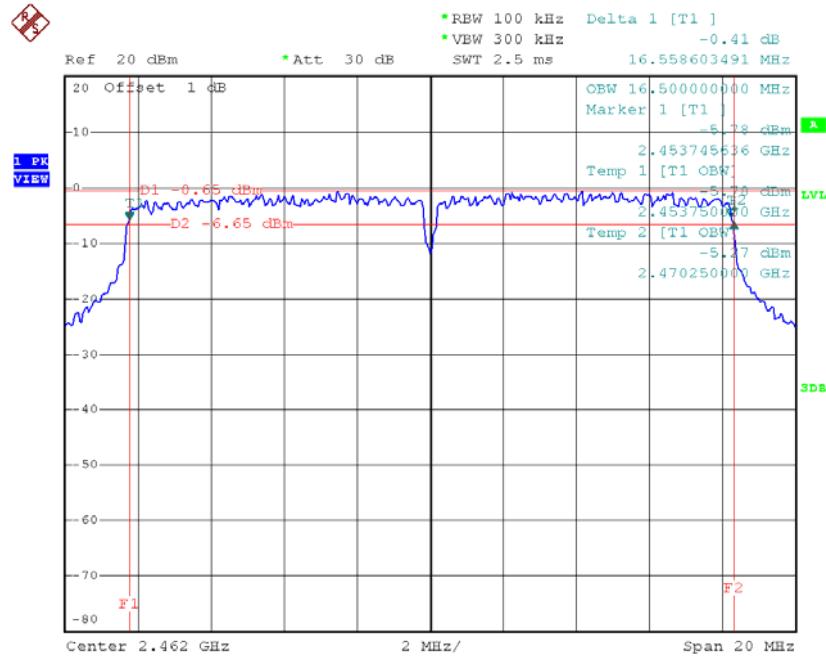
Date: 4.SEP.2014 18:51:38

TX CH06



Date: 4.SEP.2014 18:53:00

TX CH11

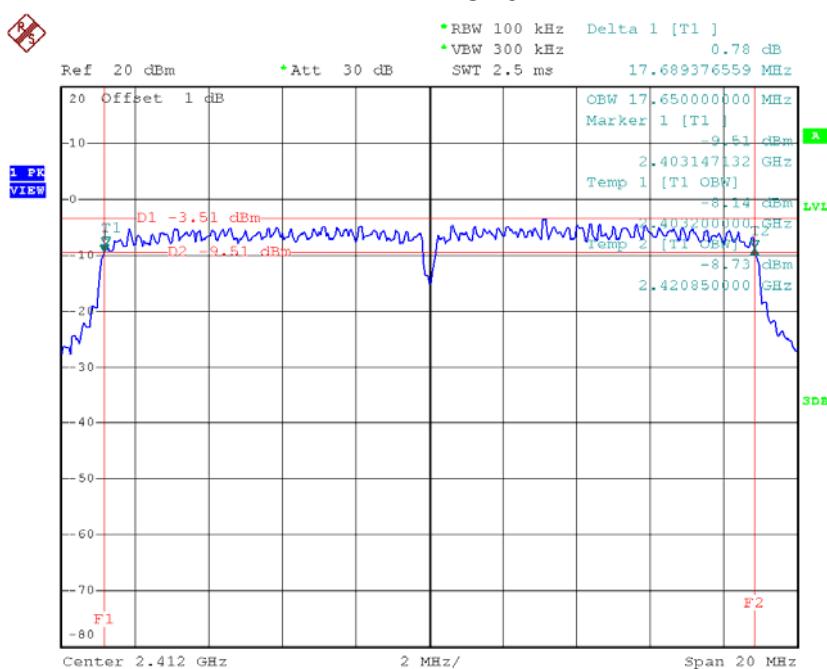


Date: 4.SEP.2014 18:54:21

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

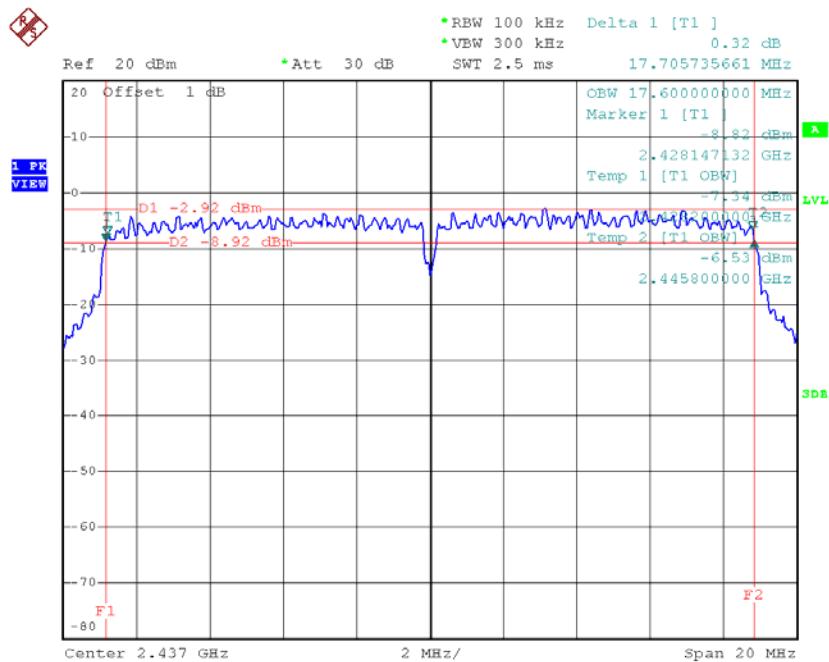
Frequency	6dB Bandwidth (MHz)	BW (MHz)	Min. Limit (kHz)	Test Result
2412 MHz	17.56	17.65	500	Complies
2437 MHz	17.76	17.65	500	Complies
2462 MHz	17.76	17.65	500	Complies

TX CH01



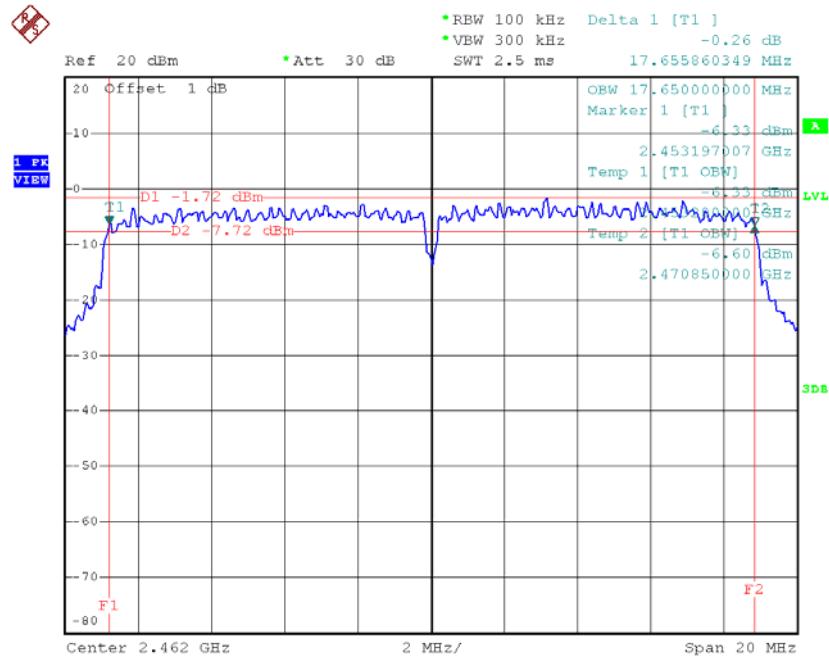
Date: 4.SEP.2014 18:57:42

TX CH06



Date: 4.SEP.2014 18:59:12

TX CH11

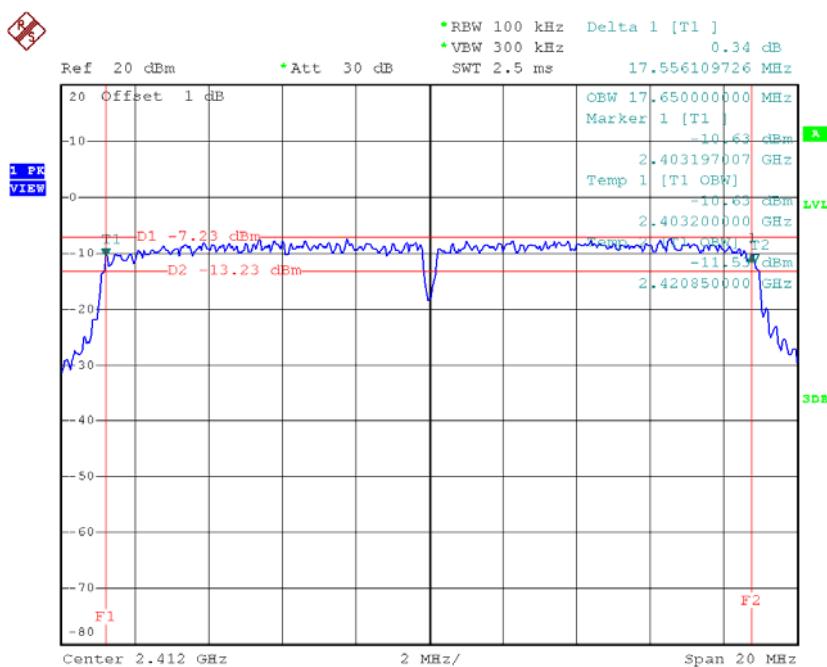


Date: 4.SEP.2014 19:00:11

Test Mode : TX N-20MHz Mode_CH01/06/11_ANT 2

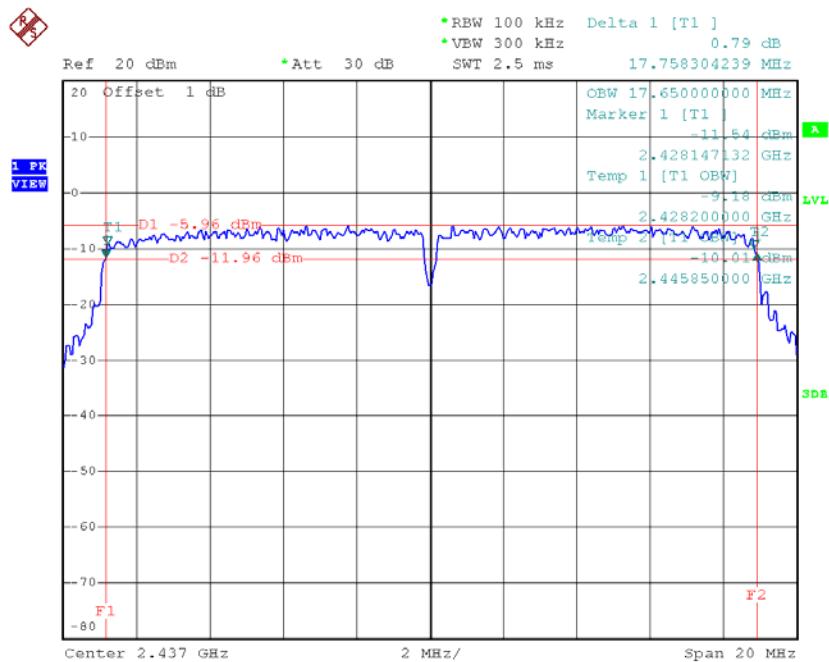
Frequency	6dB Bandwidth (MHz)	BW (MHz)	Min. Limit (kHz)	Test Result
2412 MHz	17.56	17.65	500	Complies
2437 MHz	17.76	17.65	500	Complies
2462 MHz	17.76	17.65	500	Complies

TX CH01



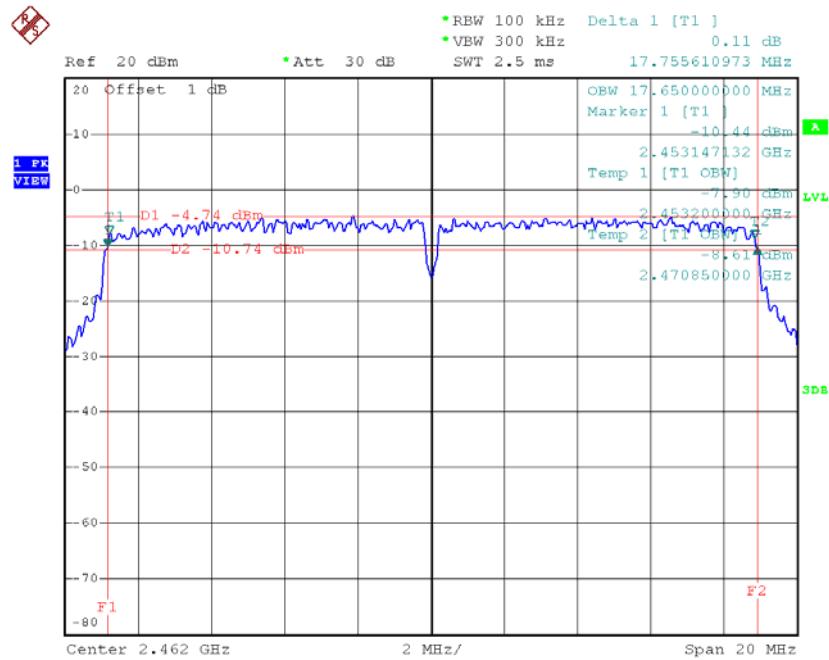
Date: 4.SEP.2014 19:07:42

TX CH06



Date: 4.SEP.2014 19:09:10

TX CH11

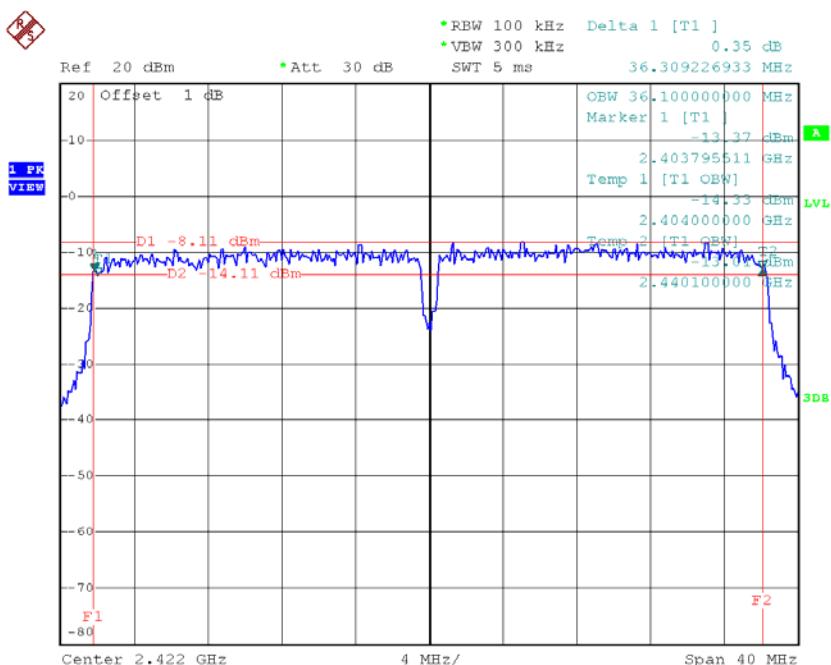


Date: 4.SEP.2014 19:10:01

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

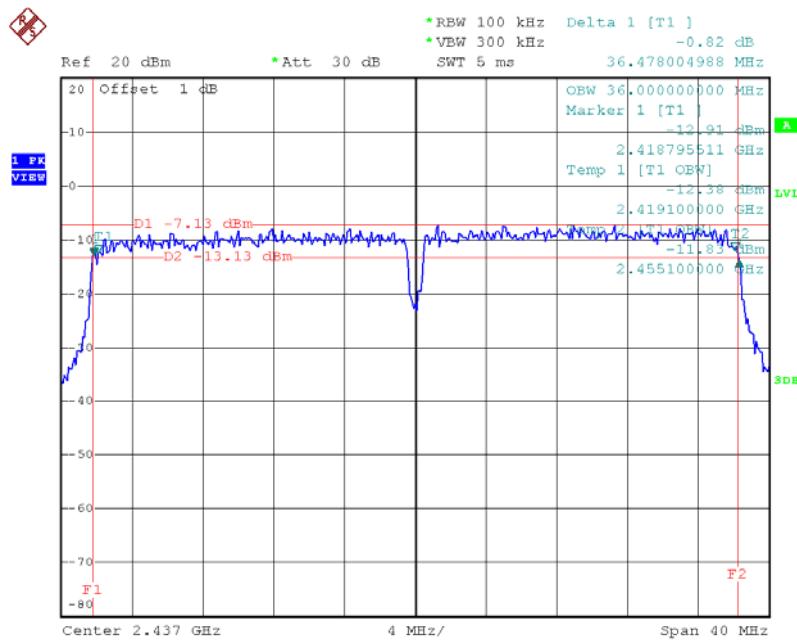
Frequency	6dB Bandwidth (MHz)	BW (MHz)	Min. Limit (kHz)	Test Result
2422 MHz	36.31	36.10	500	Complies
2437 MHz	36.48	36.00	500	Complies
2452 MHz	36.51	36.00	500	Complies

TX CH03



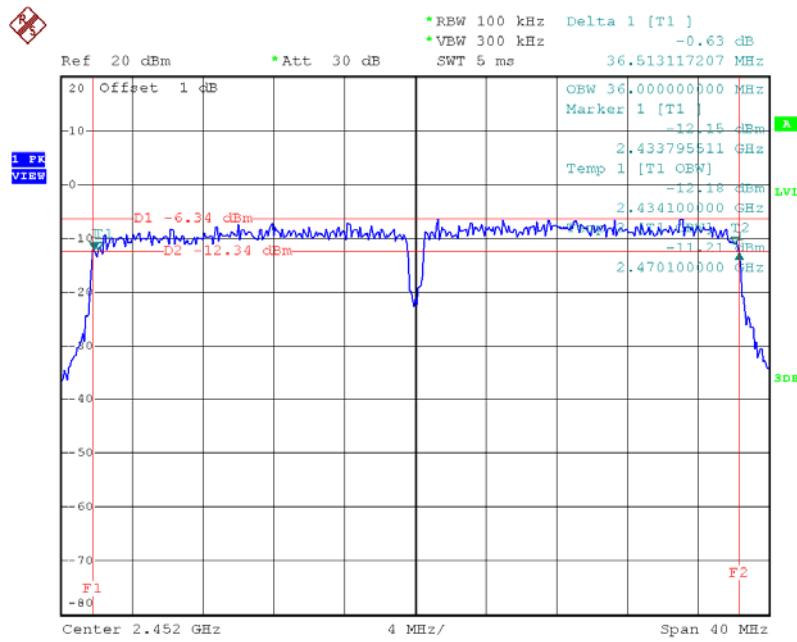
Date: 4.SEP.2014 19:01:37

TX CH06



Date: 4.SEP.2014 19:03:35

TX CH09

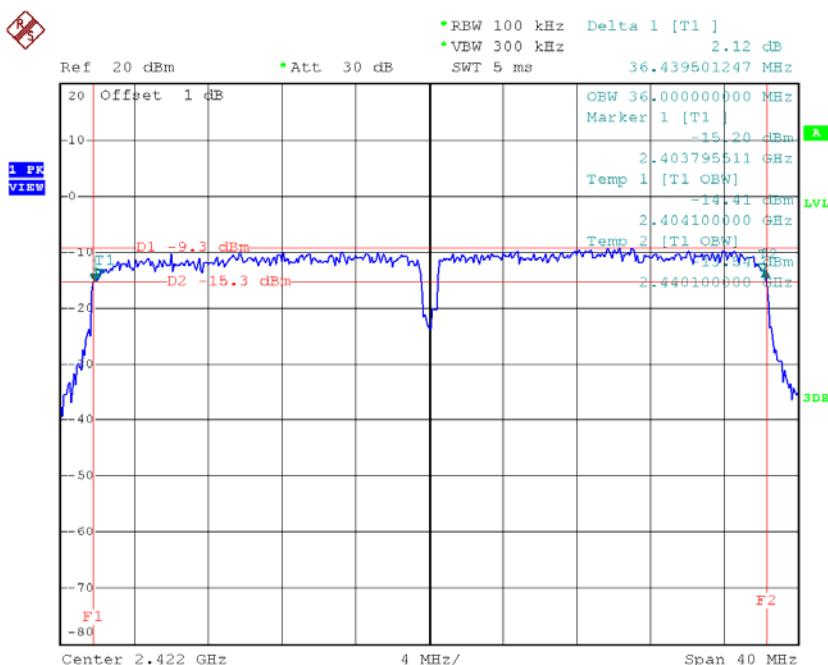


Date: 4.SEP.2014 19:05:11

Test Mode : TX N-40MHz Mode_CH03/06/09_ANT 2

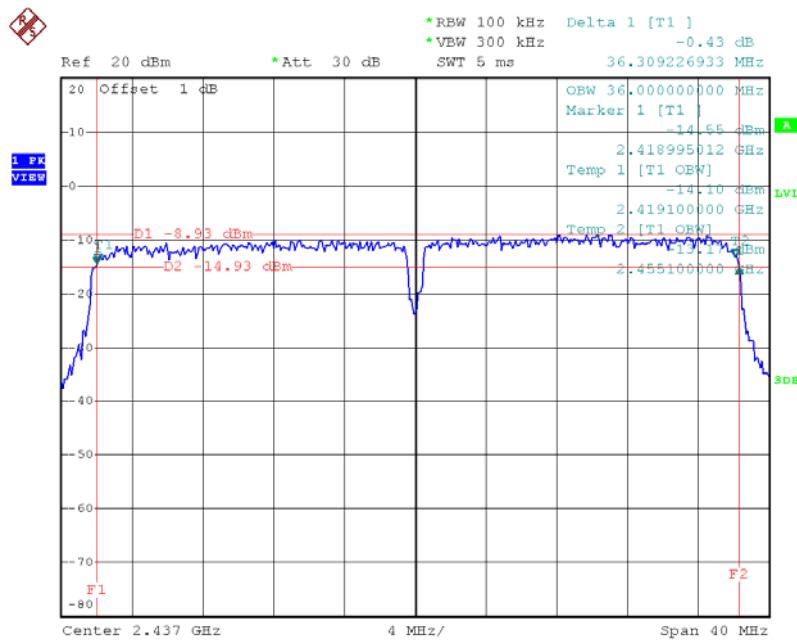
Frequency	6dB Bandwidth (MHz)	BW (MHz)	Min. Limit (kHz)	Test Result
2422 MHz	36.44	36.00	500	Complies
2437 MHz	36.31	36.00	500	Complies
2452 MHz	36.01	36.00	500	Complies

TX CH03



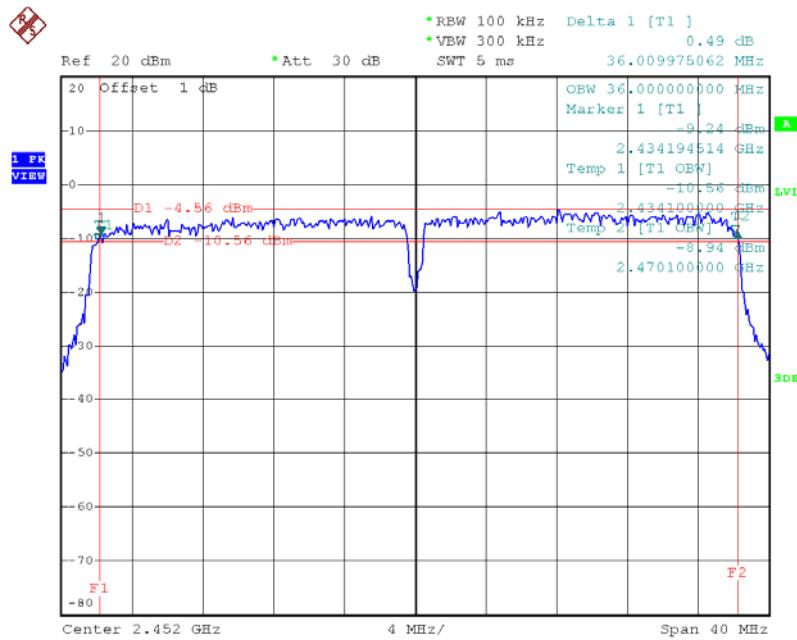
Date: 4.SEP.2014 19:11:43

TX CH06



Date: 4.SEP.2014 19:16:09

TX CH09



Date: 4.SEP.2014 19:20:36

ATTACHMENT F - MAXIMUM OUTPUT POWER

Test Mode : TX B Mode					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	9.23	0.0084	30.00	1.00	Complies
2437 MHz	9.65	0.0092	30.00	1.00	Complies
2462 MHz	9.81	0.0096	30.00	1.00	Complies

Test Mode : TX G Mode					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	9.20	0.0083	30.00	1.00	Complies
2437 MHz	9.28	0.0085	30.00	1.00	Complies
2462 MHz	9.20	0.0083	30.00	1.00	Complies

Test Mode : TX N-20MMbde_ANT 1					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	6.35	0.0043	30.00	1.00	Complies
2437 MHz	6.21	0.0042	30.00	1.00	Complies
2462 MHz	6.77	0.0048	30.00	1.00	Complies

Test Mode : TX N-20MMbde_ANT 2					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	6.63	0.0046	30.00	1.00	Complies
2437 MHz	6.55	0.0045	30.00	1.00	Complies
2462 MHz	6.61	0.0046	30.00	1.00	Complies

Test Mode : TX N-20MMbde_Total					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2412 MHz	9.50	0.0089	30.00	1.00	Complies
2437 MHz	9.39	0.0087	30.00	1.00	Complies
2462 MHz	9.70	0.0093	30.00	1.00	Complies

Test Mode : TX N-40M Mbde_ANT 1					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2422 MHz	6.69	0.0047	30.00	1.00	Complies
2437 MHz	6.61	0.0046	30.00	1.00	Complies
2452 MHz	6.81	0.0048	30.00	1.00	Complies

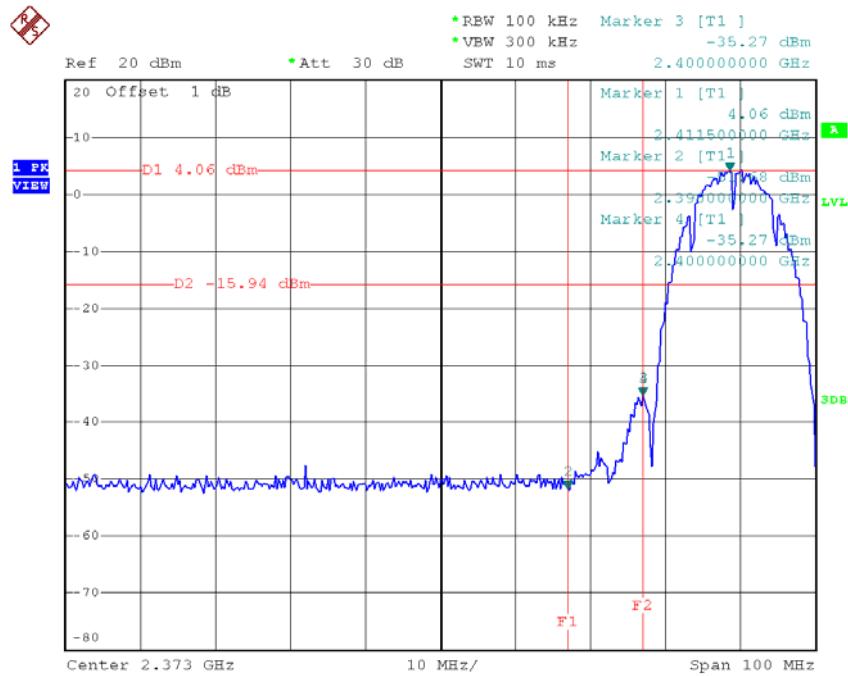
Test Mode : TX N-40M Mbde_ANT 2					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2422 MHz	6.50	0.0045	30.00	1.00	Complies
2437 MHz	6.25	0.0042	30.00	1.00	Complies
2452 MHz	6.76	0.0047	30.00	1.00	Complies

Test Mode : TX N-40M Mbde_Total					
Frequency	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)	Result
2422 MHz	9.61	0.0091	30.00	1.00	Complies
2437 MHz	9.44	0.0088	30.00	1.00	Complies
2452 MHz	9.80	0.0095	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS
EMISSION**

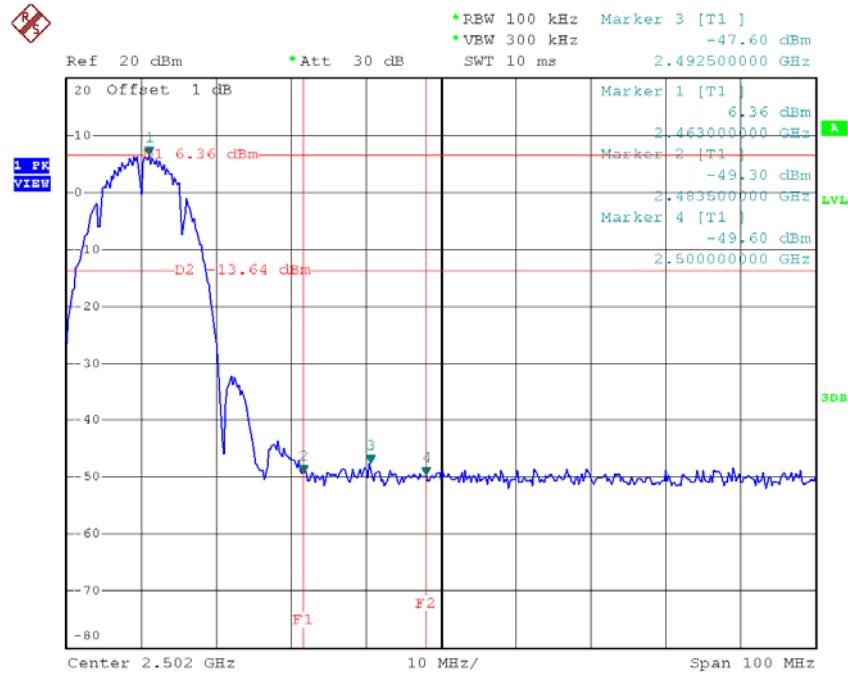
Test Mode :	TX B Mode
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TX B mode CH01

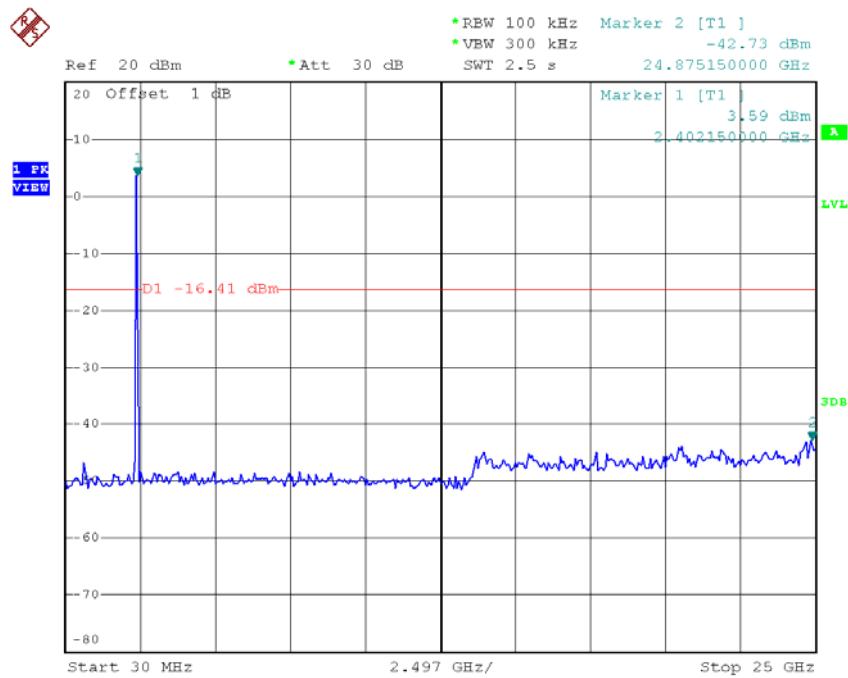


Date: 4.SEP.2014 17:01:44

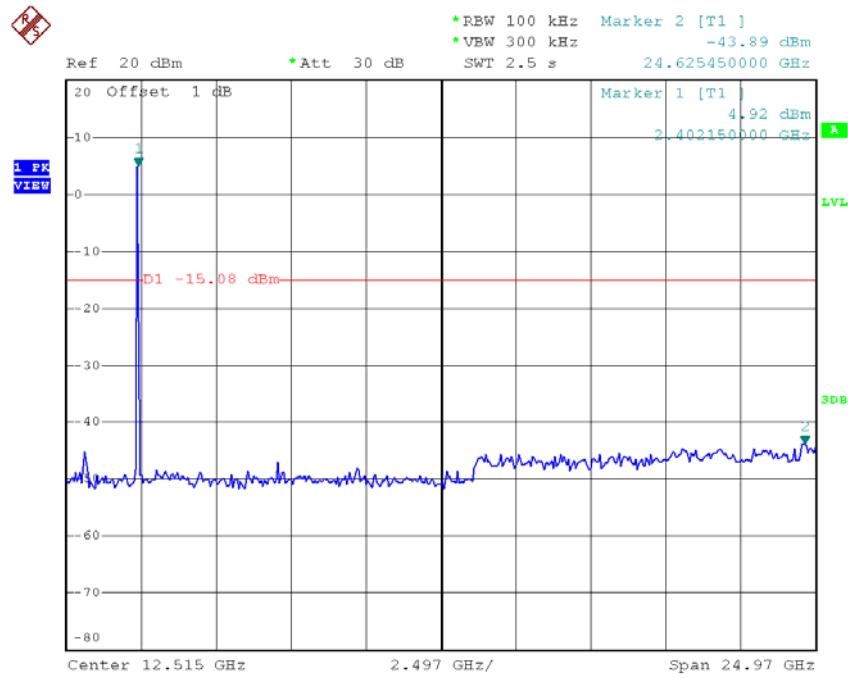
TX B mode CH11



Date: 4.SEP.2014 17:04:30

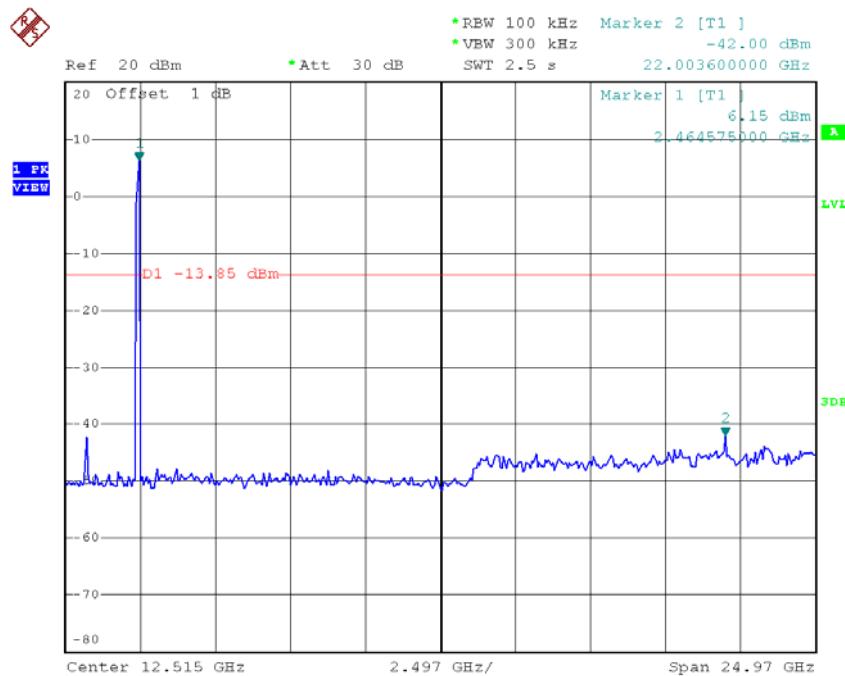
TX B mode CH01 (10 Harmonic of the frequency)

Date: 4.SEP.2014 19:27:00

TX B mode CH06 (10 Harmonic of the frequency)

Date: 4.SEP.2014 17:02:32

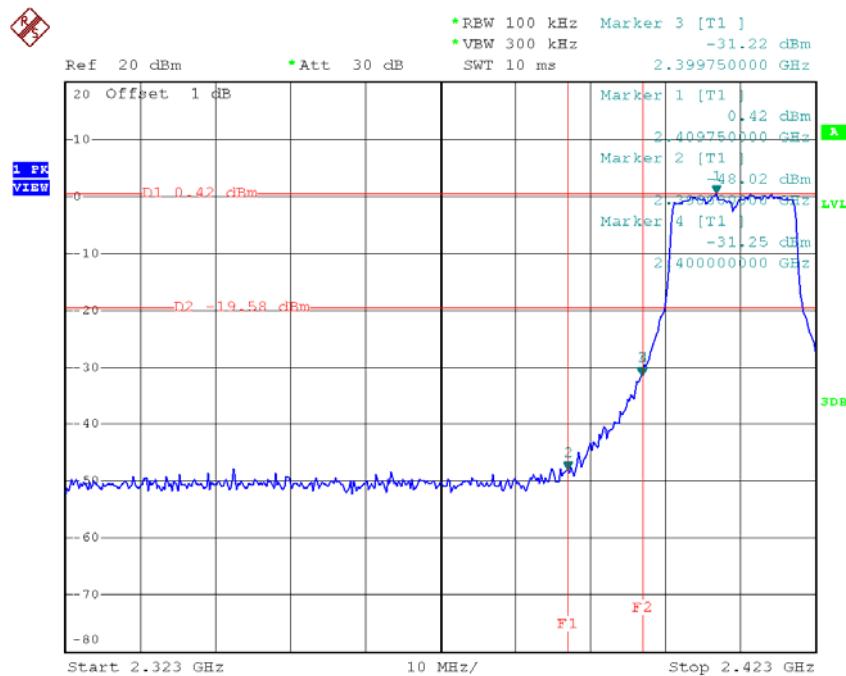
TX B mode CH11 (10 Harmonic of the frequency)



Date: 4.SEP.2014 17:03:52

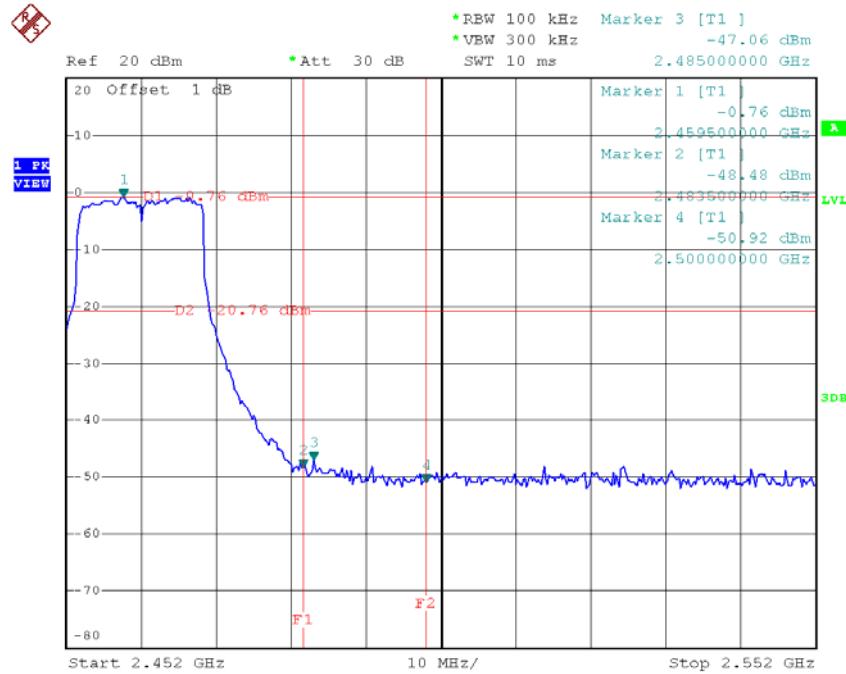
Test Mode :	TX G Mode
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TX G mode CH01

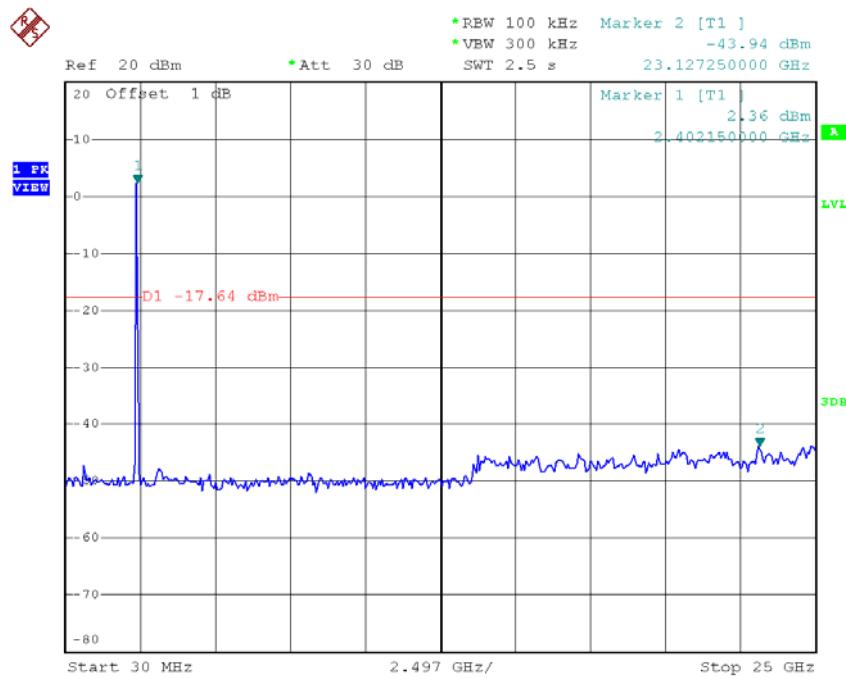


Date: 4.SEP.2014 18:51:52

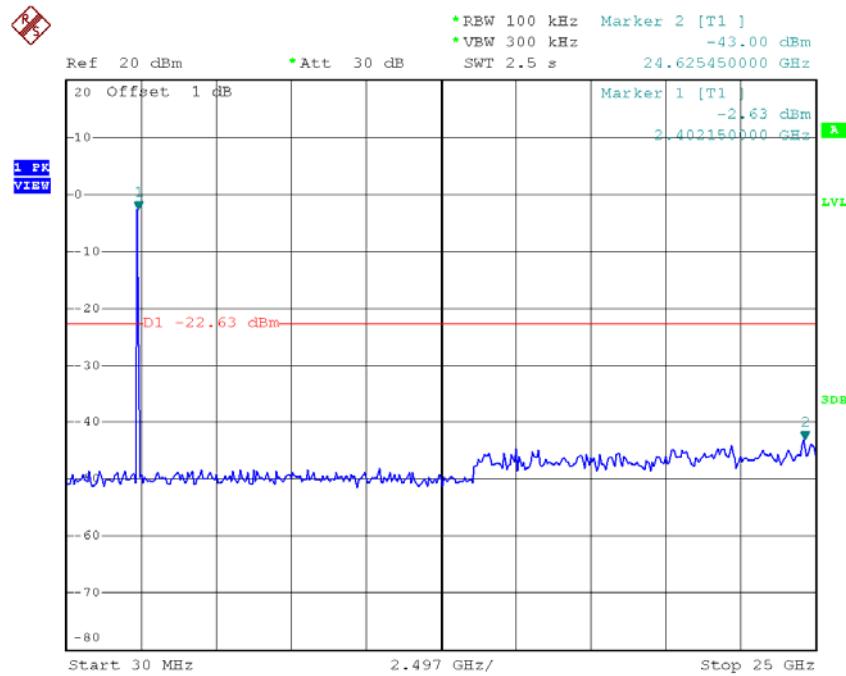
TX G mode CH11



Date: 4.SEP.2014 18:54:37

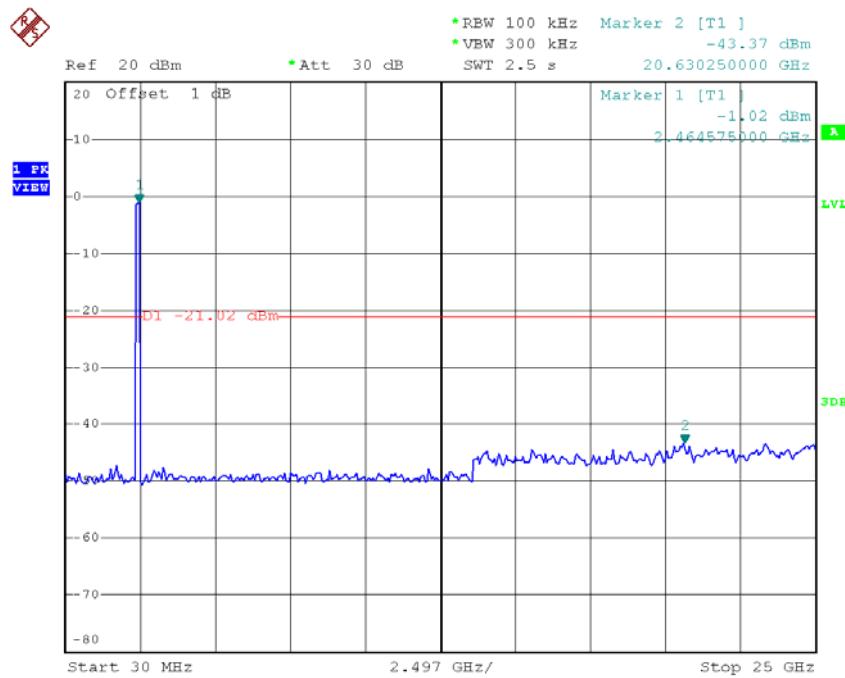
TX G mode CH01 (10 Harmonic of the frequency)

Date: 4.SEP.2014 19:27:12

TX G mode CH06 (10 Harmonic of the frequency)

Date: 4.SEP.2014 18:52:42

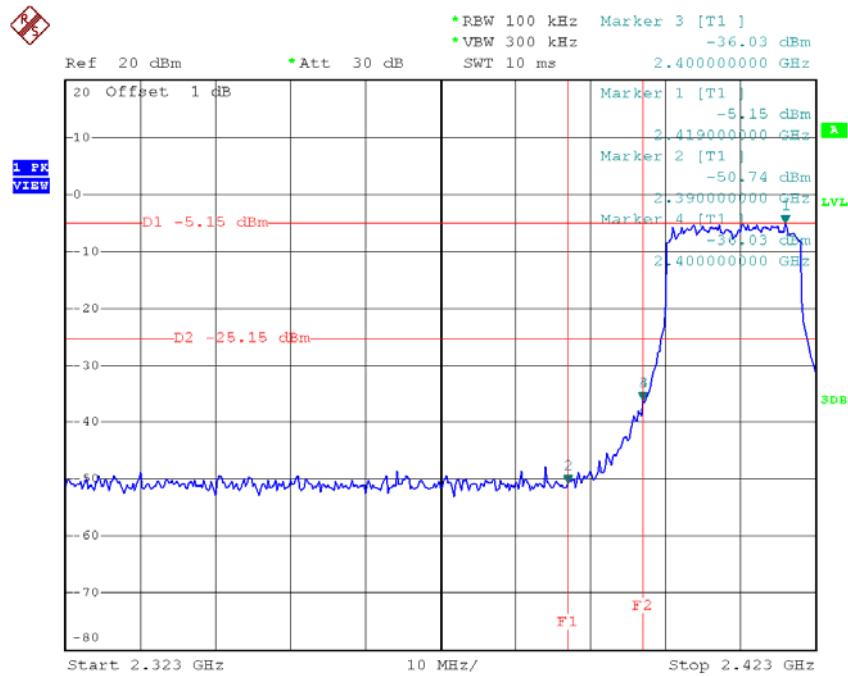
TX G mode CH11 (10 Harmonic of the frequency)



Date: 4.SEP.2014 18:54:06

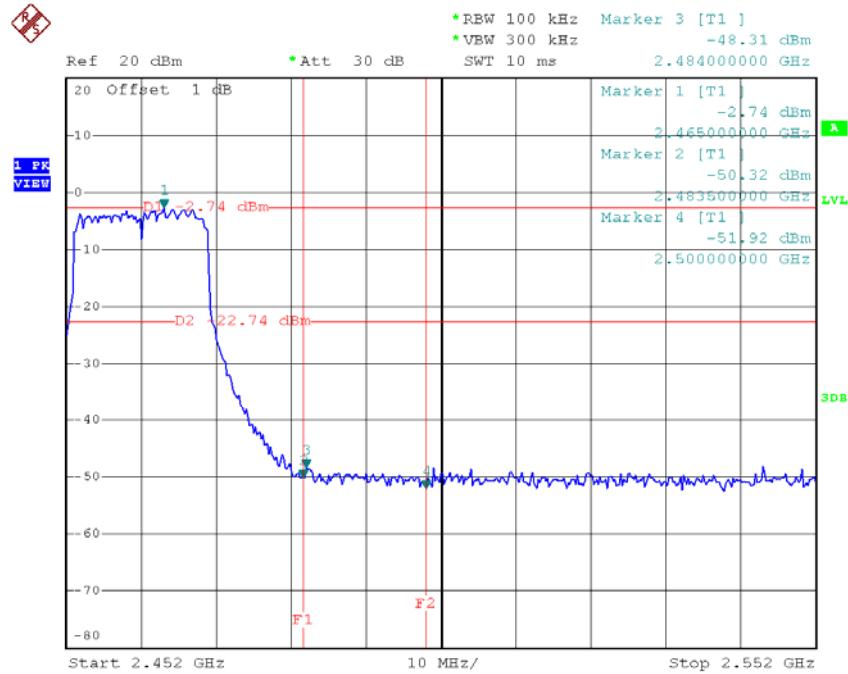
Test Mode :	TX N-20M Mode_ANT 1
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TX HT20 mode CH01

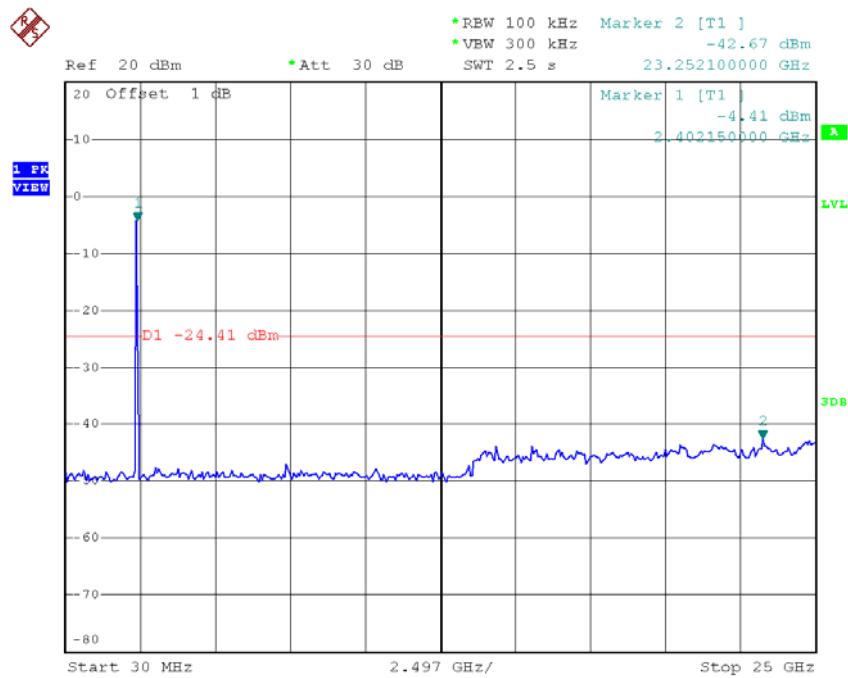


Date: 4.SEP.2014 18:57:55

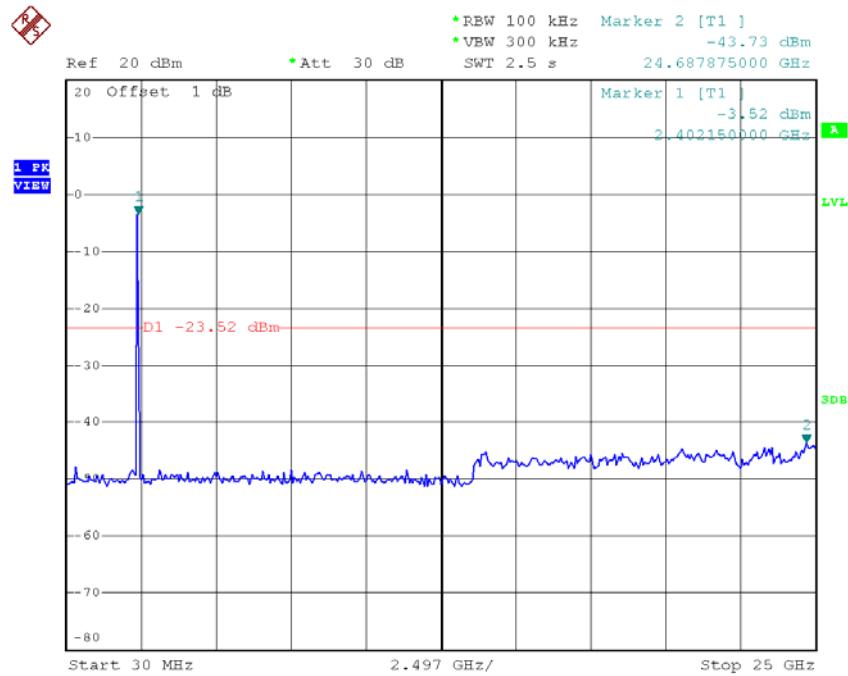
TX HT20 mode CH11



Date: 4.SEP.2014 19:00:25

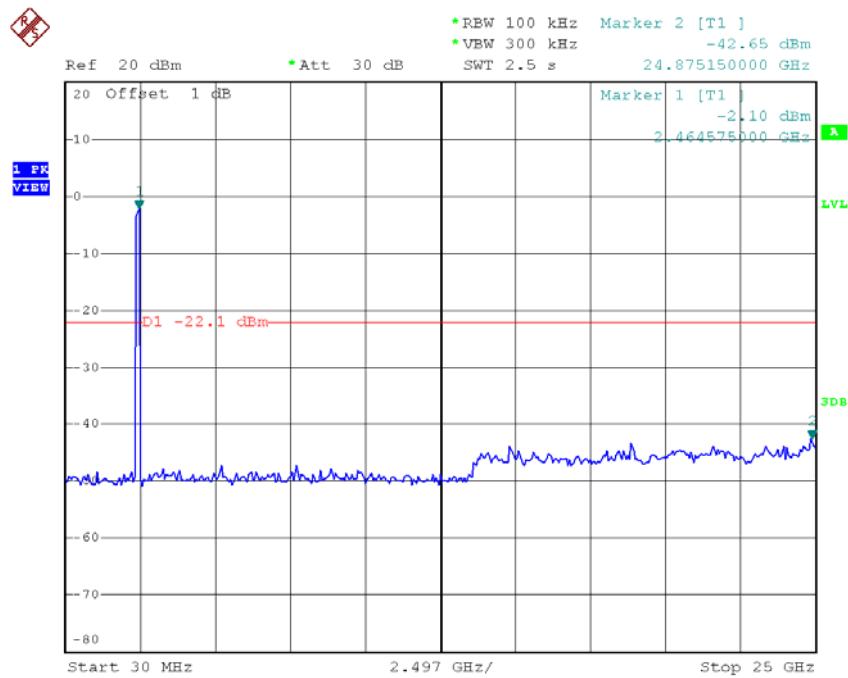
TX HT20 mode CH01 (10 Harmonic of the frequency)

Date: 4.SEP.2014 18:56:48

TX HT20 mode CH06 (10 Harmonic of the frequency)

Date: 4.SEP.2014 18:58:56

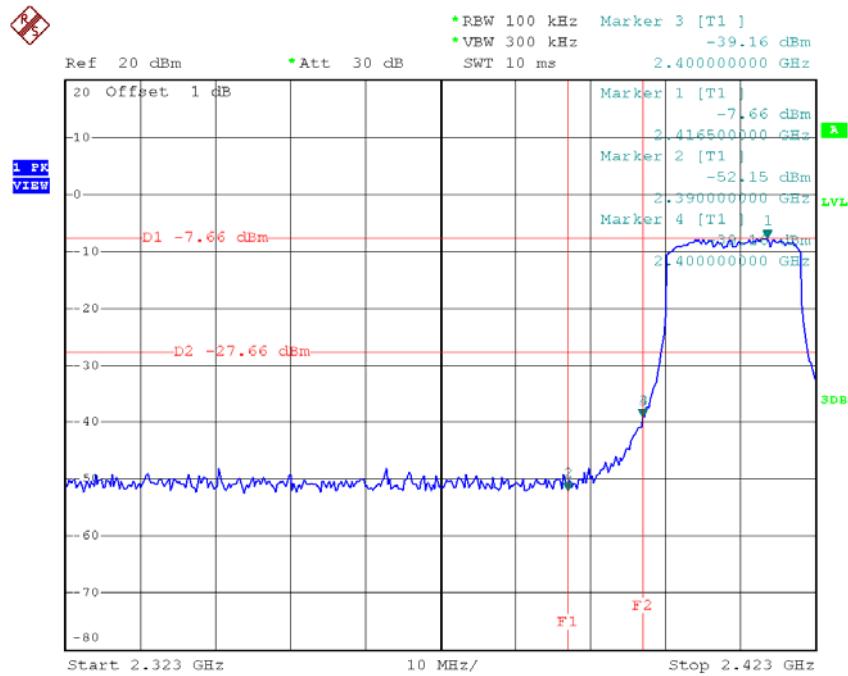
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 4.SEP.2014 18:59:52

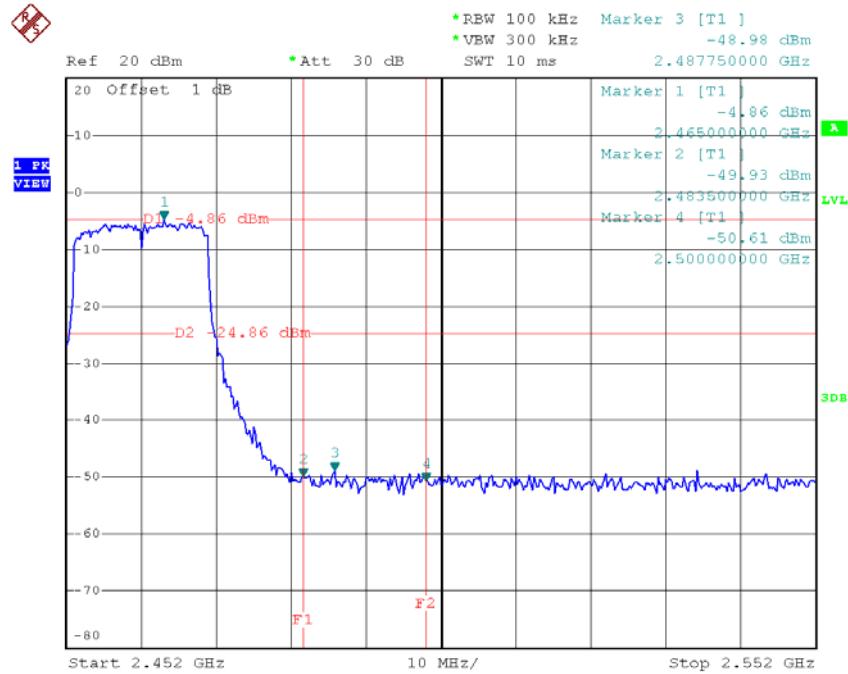
Test Mode :	TX N-20M Mode_ANT 2
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TX HT20 mode CH01

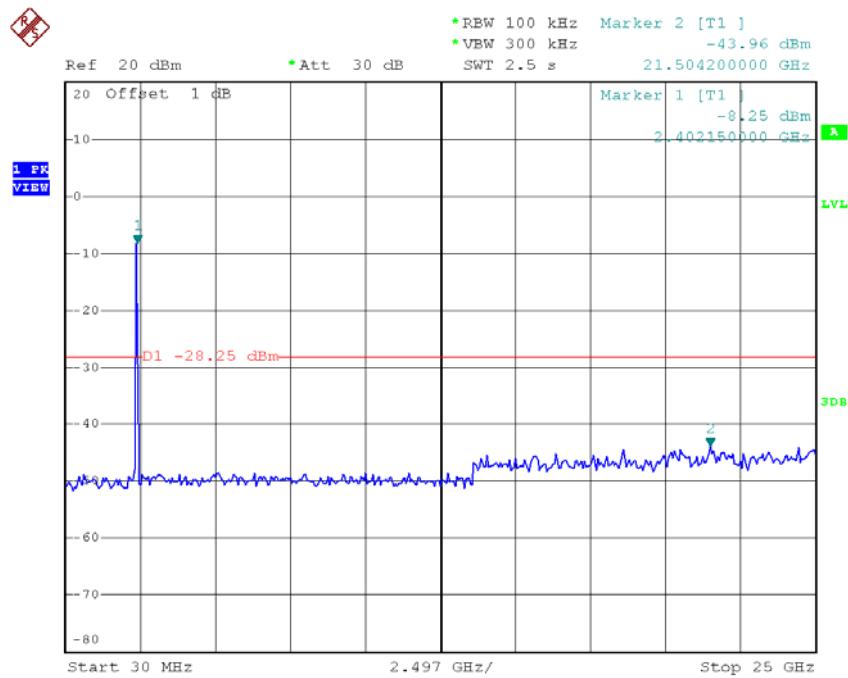


Date: 4.SEP.2014 19:07:56

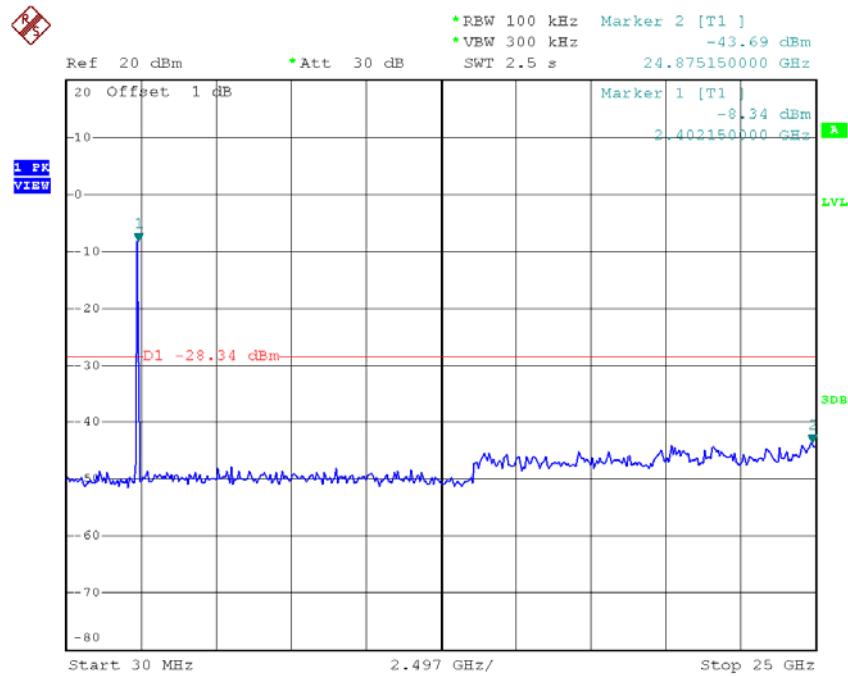
TX HT20 mode CH11



Date: 4.SEP.2014 19:10:11

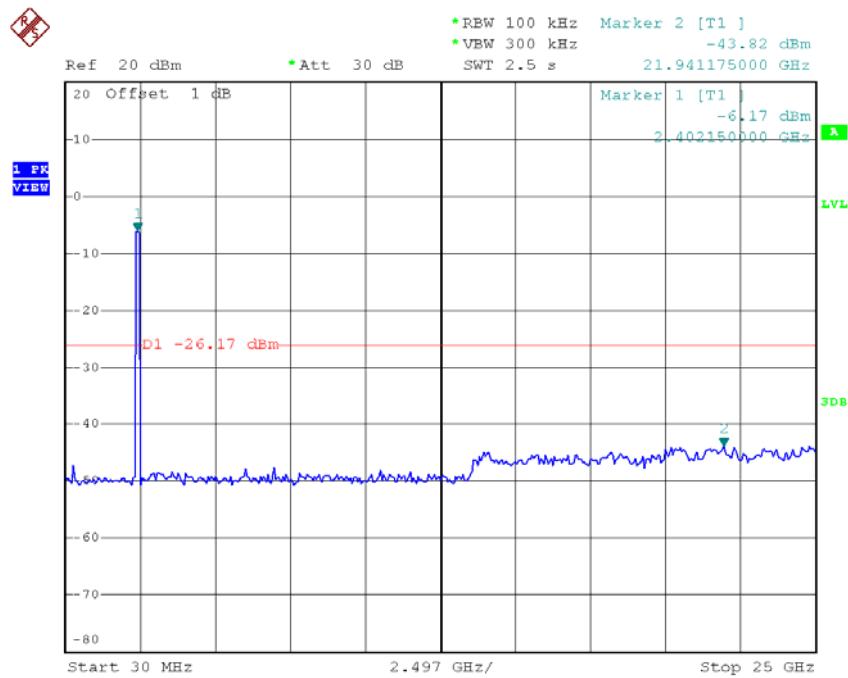
TX HT20 mode CH01 (10 Harmonic of the frequency)

Date: 4.SEP.2014 19:07:27

TX HT20 mode CH06 (10 Harmonic of the frequency)

Date: 4.SEP.2014 19:08:24

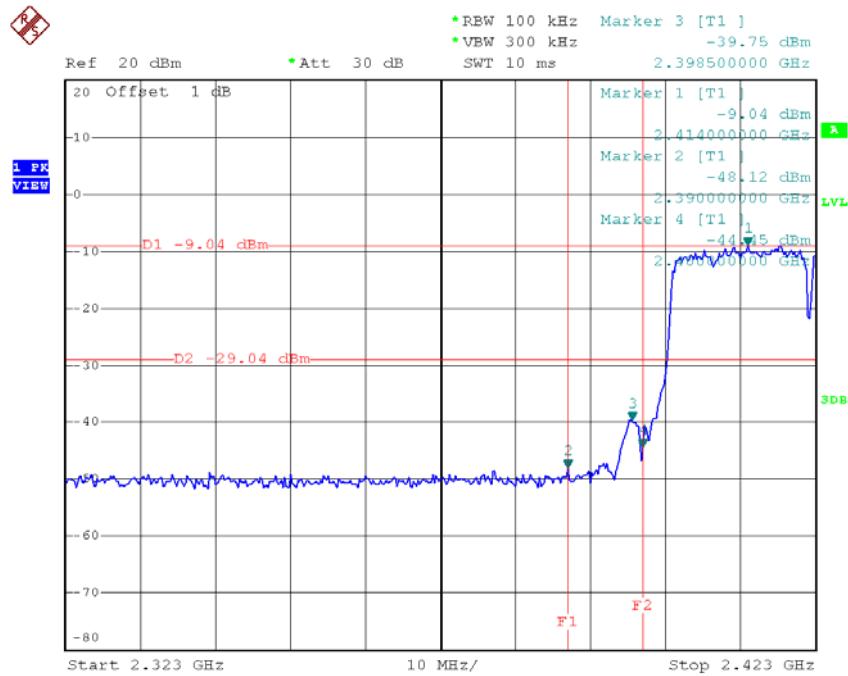
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 4.SEP.2014 19:09:46

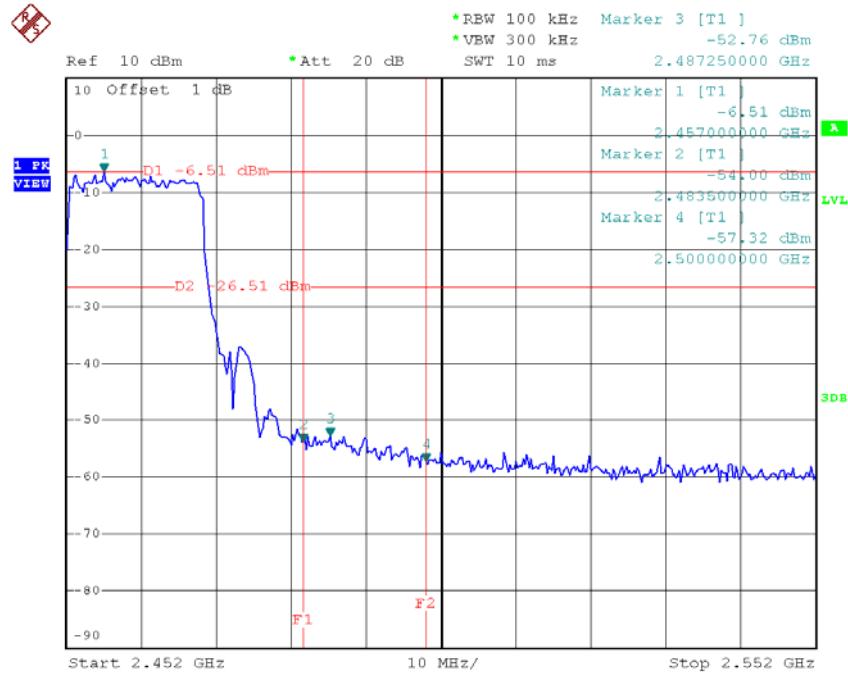
Test Mode :	TX N-40M Mode_ANT 1
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TX HT40 mode CH03



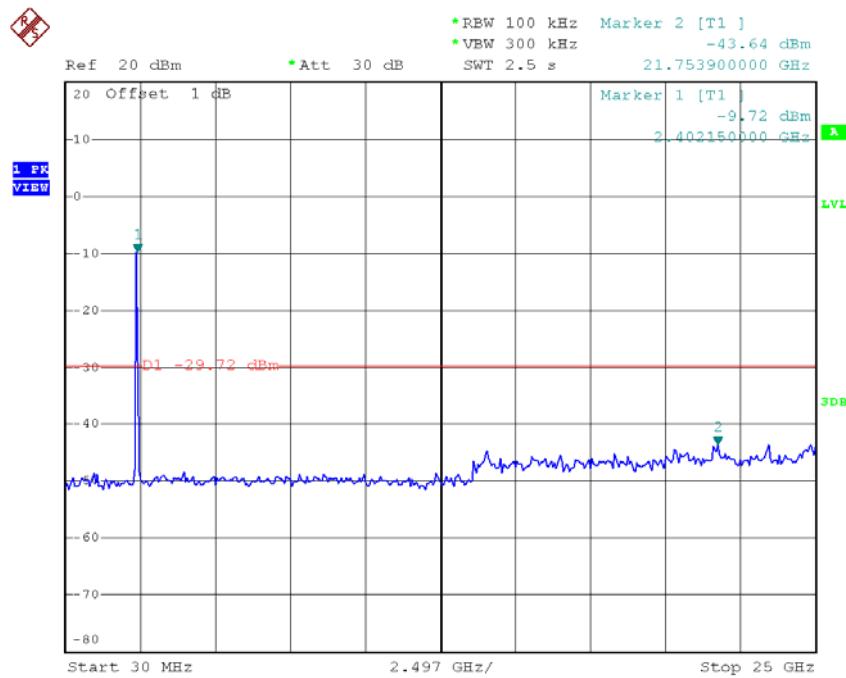
Date: 4.SEP.2014 19:01:53

TX HT40 mode CH09



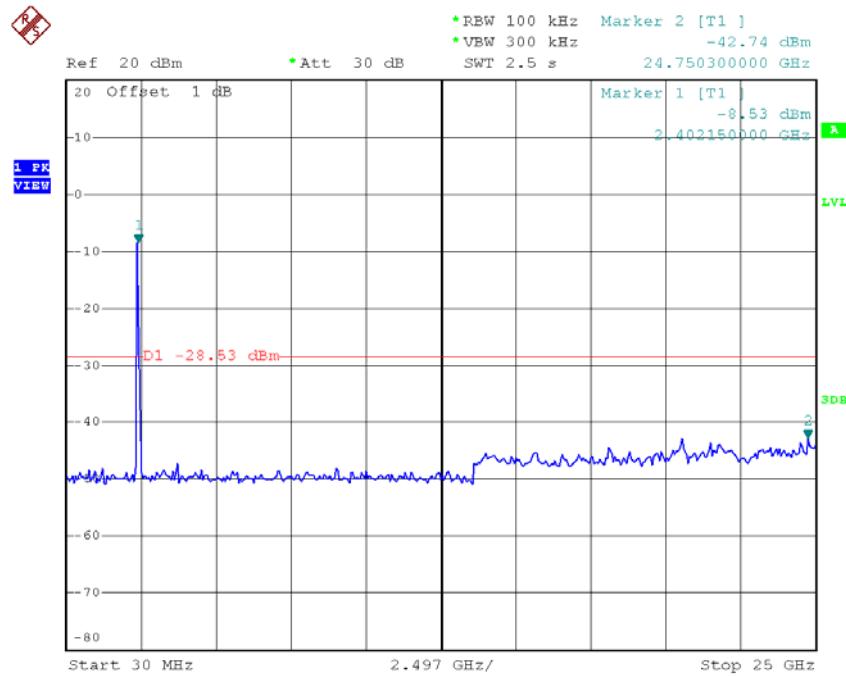
Date: 4.SEP.2014 19:05:22

TX HT40 mode CH03 (10 Harmonic of the frequency)



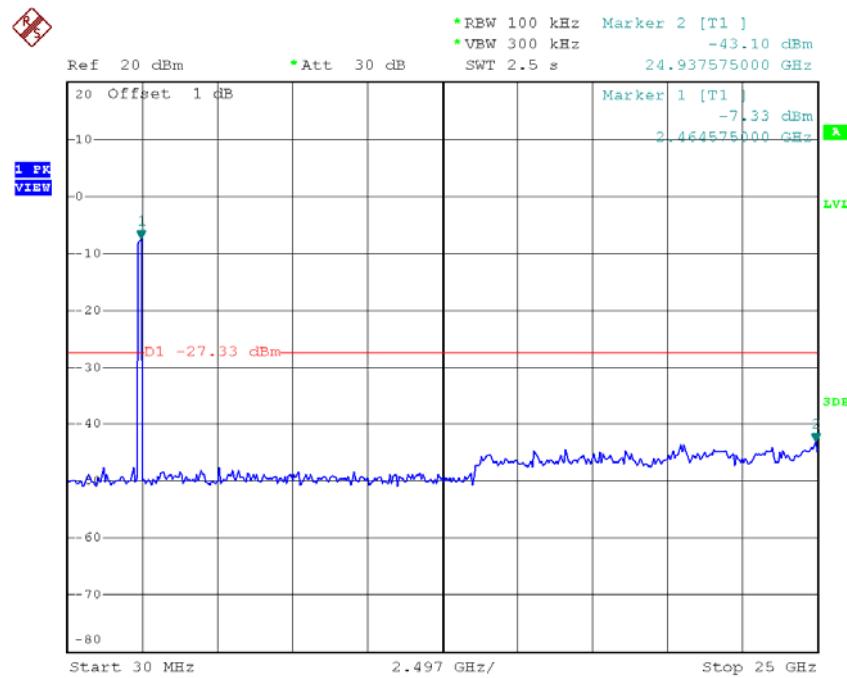
Date: 4.SEP.2014 19:01:20

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 4.SEP.2014 19:02:48

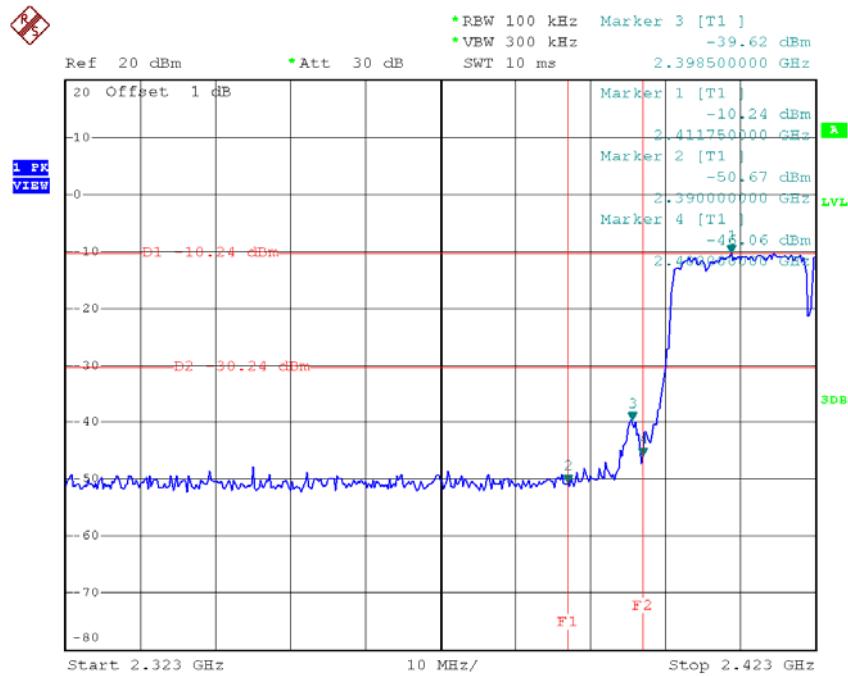
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 4.SEP.2014 19:04:35

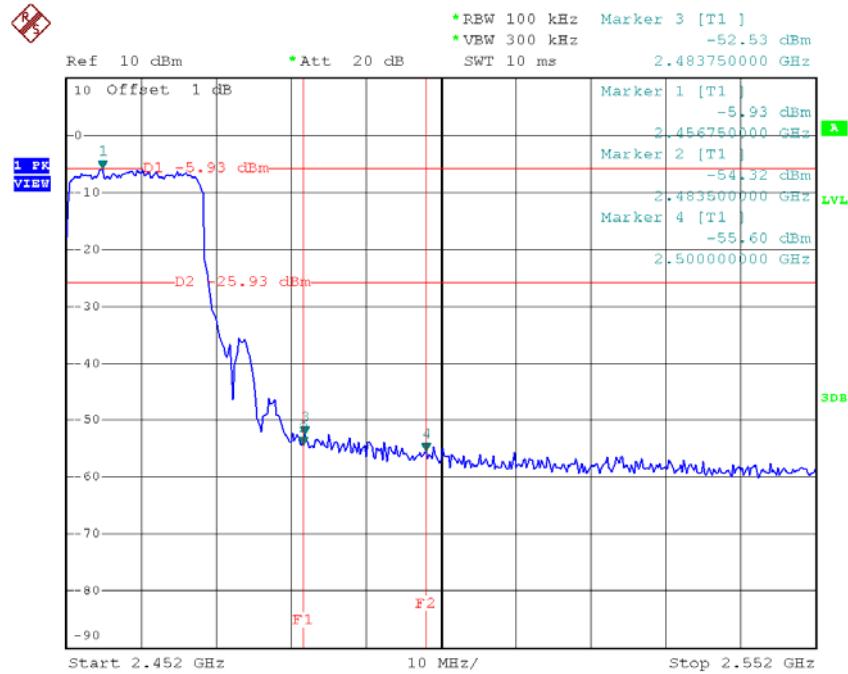
Test Mode :	TX N-40M Mode_ANT 2
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TX HT40 mode CH03

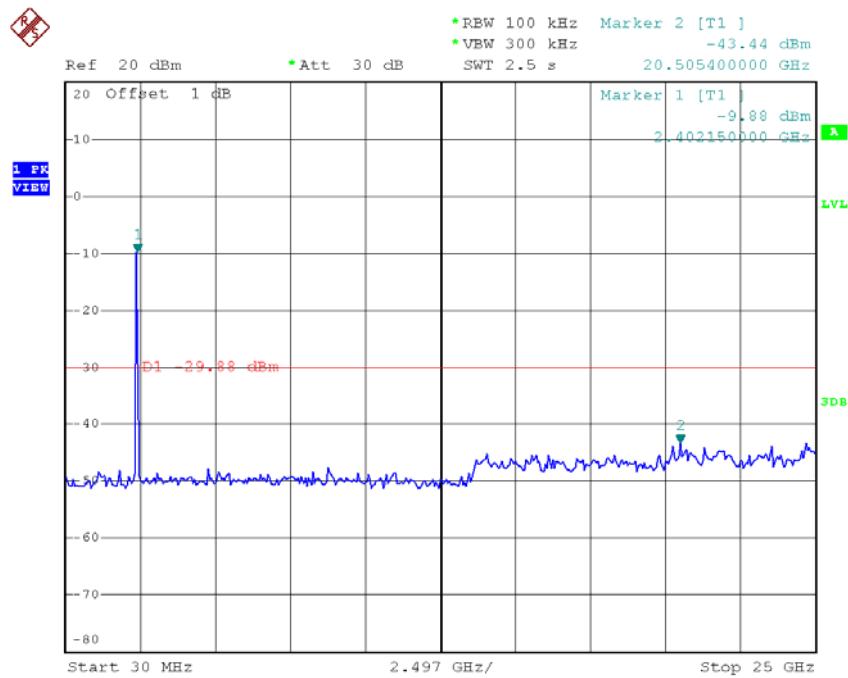


Date: 4.SEP.2014 19:11:56

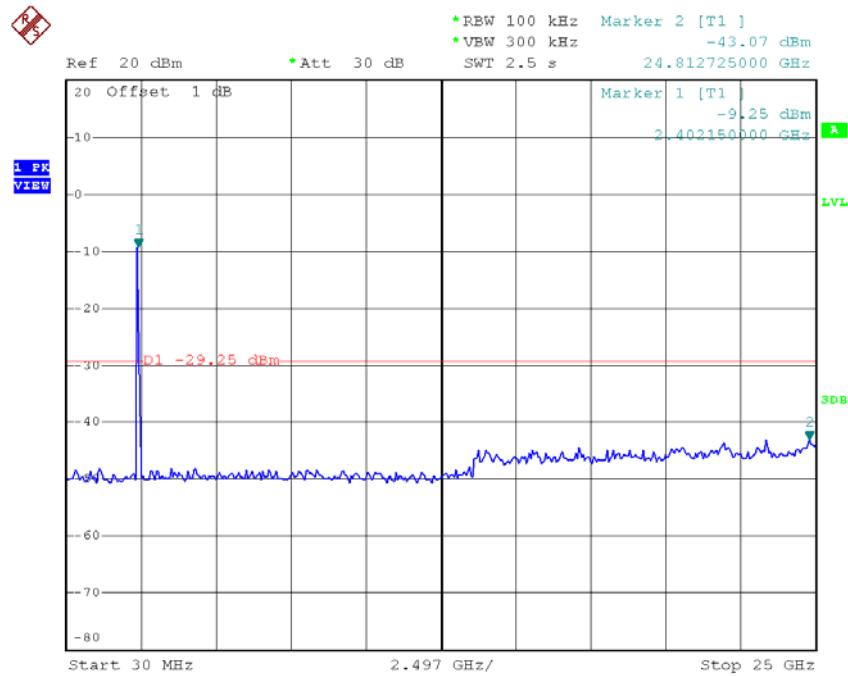
TX HT40 mode CH09



Date: 4.SEP.2014 19:20:49

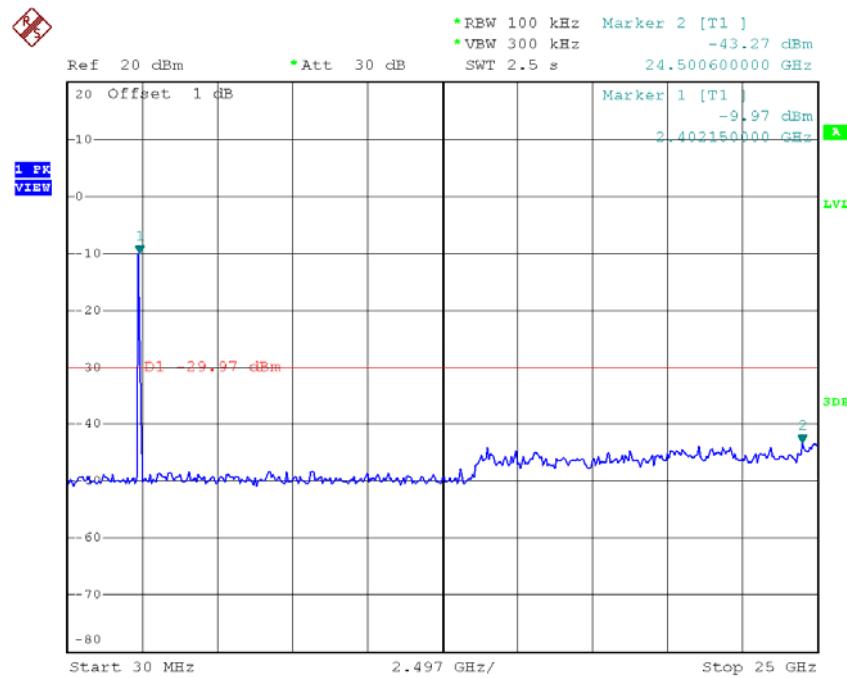
TX HT40 mode CH03 (10 Harmonic of the frequency)

Date: 4.SEP.2014 19:11:01

TX HT40 mode CH06 (10 Harmonic of the frequency)

Date: 4.SEP.2014 19:15:54

TX HT40 mode CH09 (10 Harmonic of the frequency)



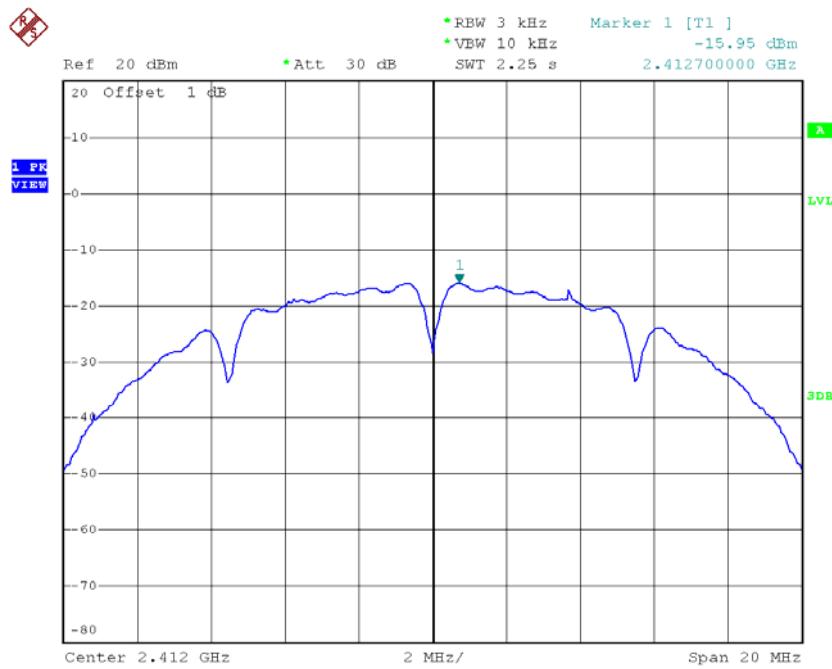
Date: 4.SEP.2014 19:16:47

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

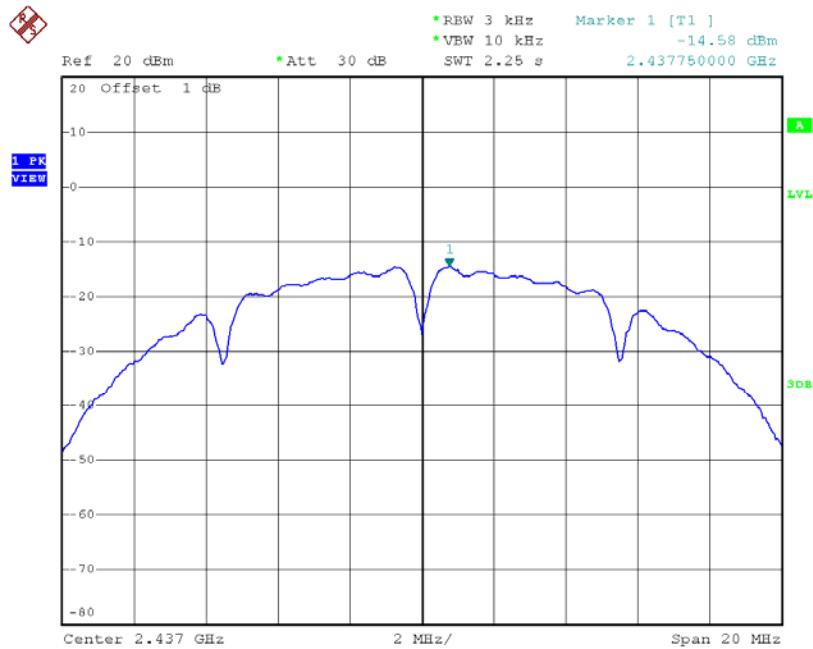
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-15.95	0.03	8.00	Complies
2437 MHz	-14.58	0.03	8.00	Complies
2462 MHz	-13.65	0.04	8.00	Complies

TX CH01



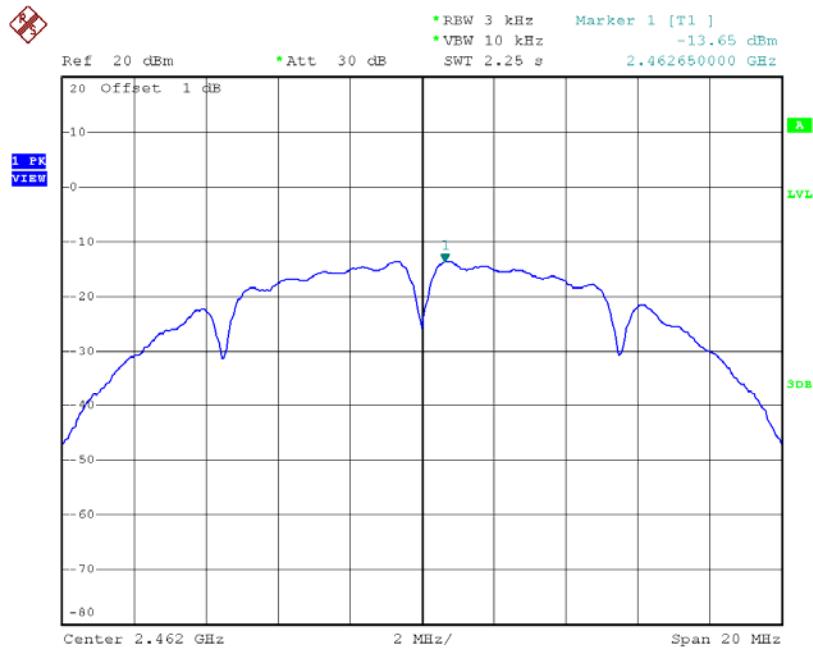
Date: 4.SEP.2014 17:01:56

TX CH06



Date: 4.SEP.2014 17:03:16

TX CH11

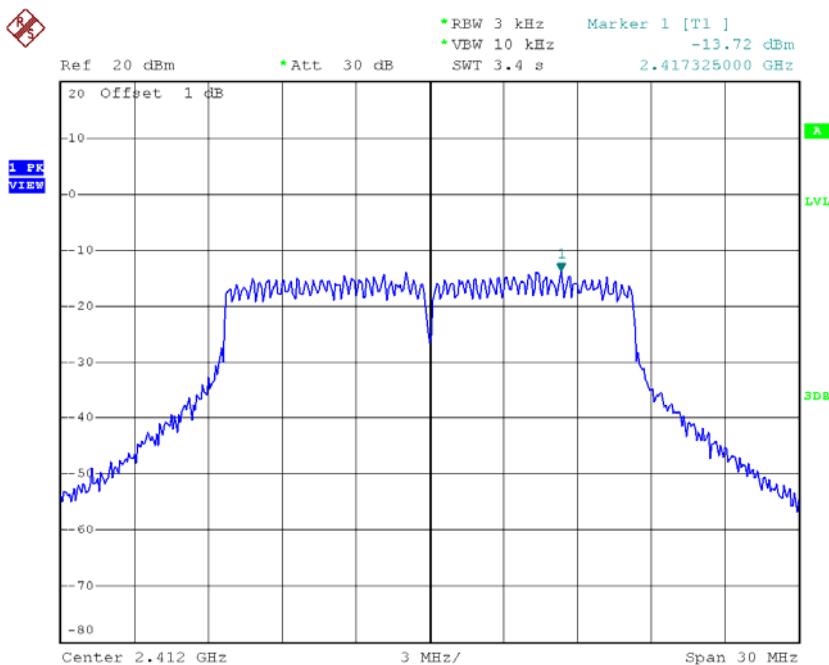


Date: 4.SEP.2014 17:04:41

Test Mode :TX G Mode_CH01/06/11

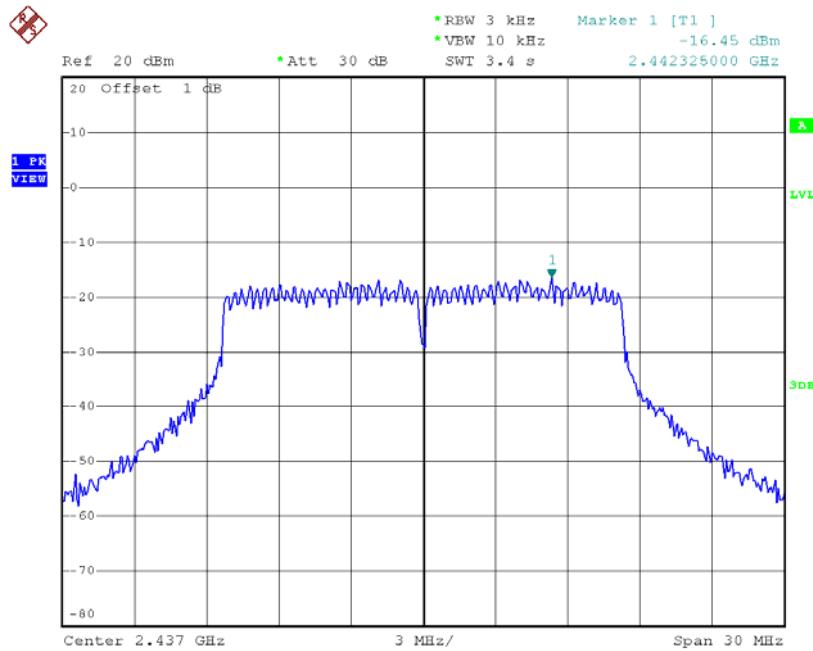
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-13.72	0.04	8.00	Complies
2437 MHz	-16.45	0.02	8.00	Complies
2462 MHz	-15.40	0.03	8.00	Complies

TX CH01



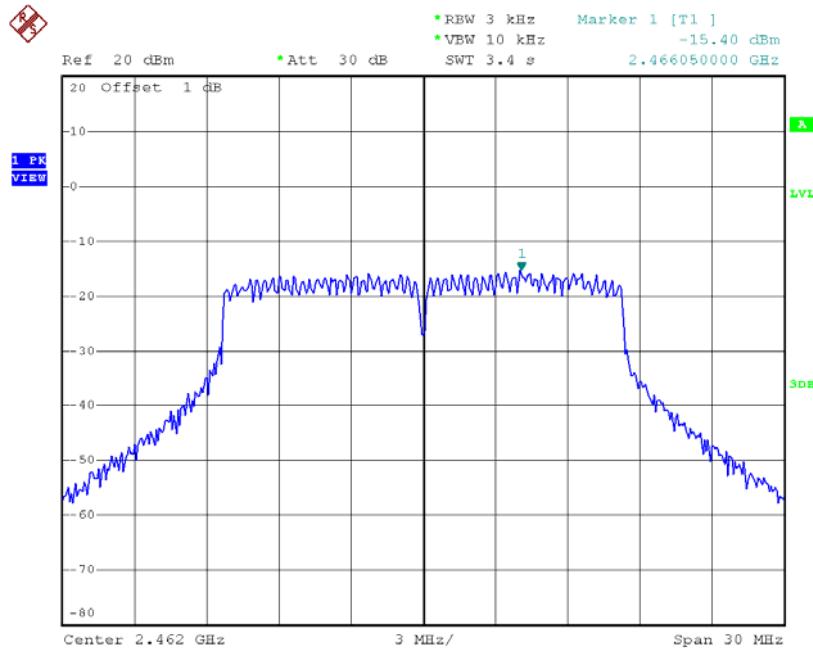
Date: 4.SEP.2014 18:52:04

TX CH06



Date: 4.SEP.2014 18:53:11

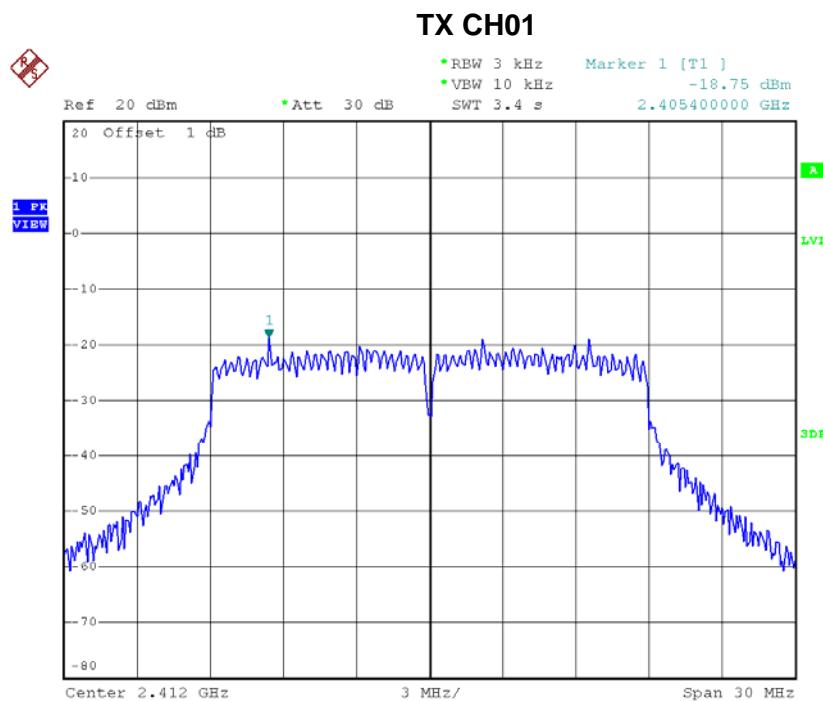
TX CH11



Date: 4.SEP.2014 18:54:49

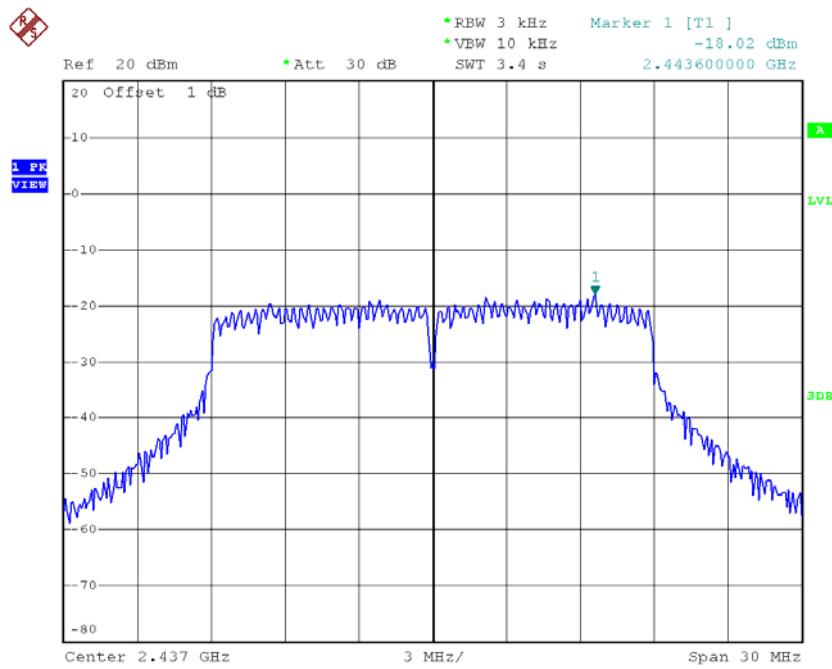
Test Mode : TX N-20M Mode_CH01/06/11_ANT 1

Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-18.75	0.01	8.00	Complies
2437 MHz	-18.02	0.02	8.00	Complies
2462 MHz	-17.29	0.02	8.00	Complies



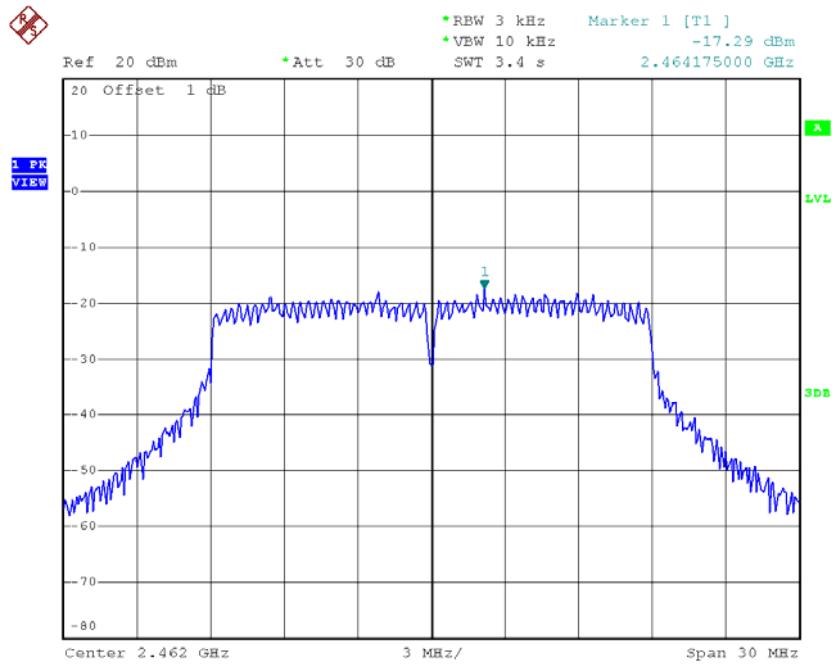
Date: 4.SEP.2014 18:58:07

TX CH06



Date: 4.SEP.2014 18:59:25

TX CH11

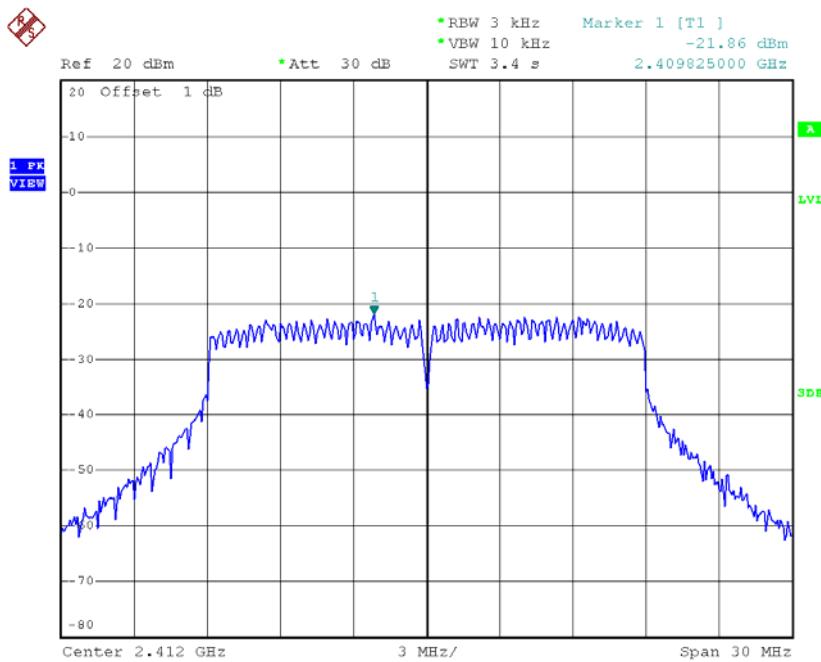


Date: 4.SEP.2014 19:00:39

Test Mode : TX N-20M Mode_CH01/06/11_ANT 2

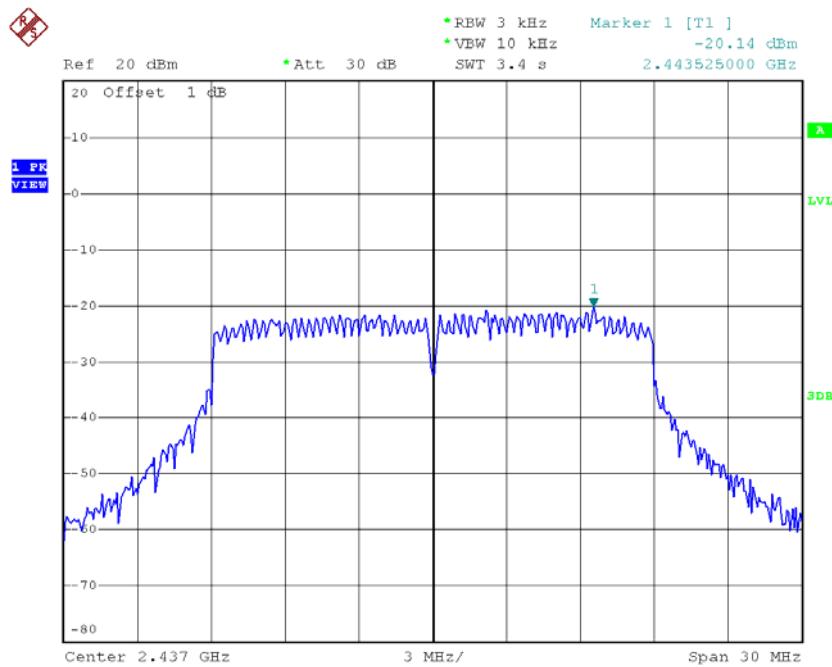
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-21.86	0.01	8.00	Complies
2437 MHz	-20.14	0.01	8.00	Complies
2462 MHz	-18.41	0.01	8.00	Complies

TX CH01



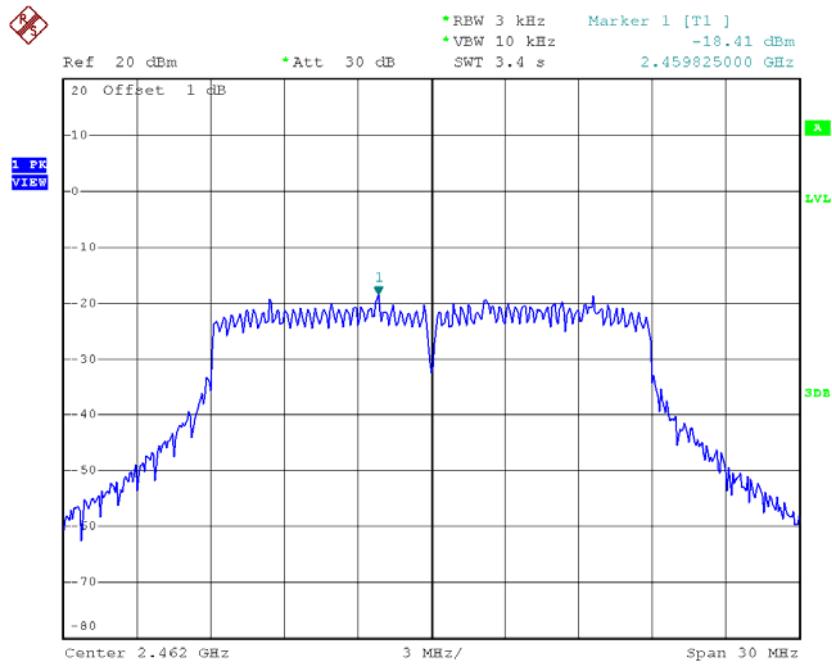
Date: 4.SEP.2014 19:08:10

TX CH06



Date: 4.SEP.2014 19:09:22

TX CH11



Date: 4.SEP.2014 19:10:25

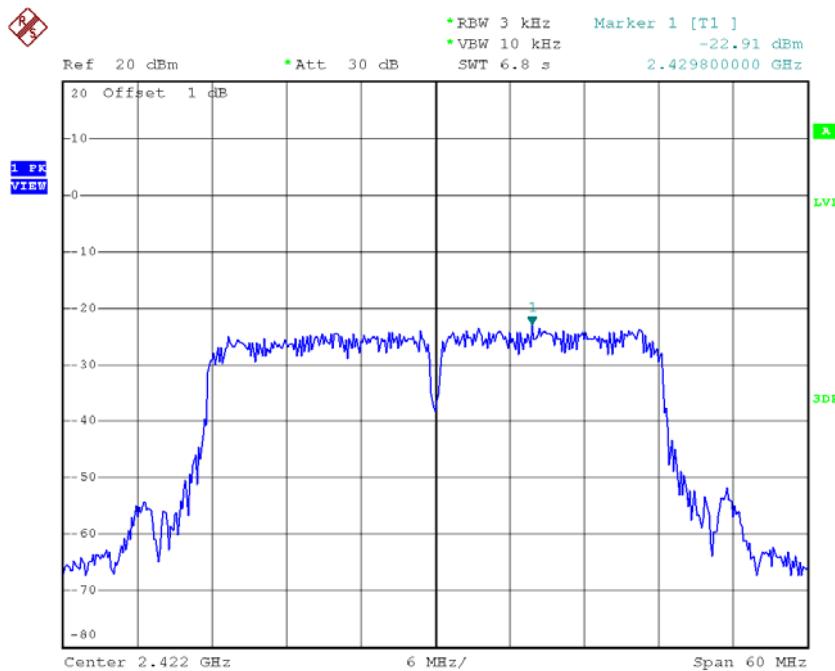
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2412 MHz	-17.02	0.02	8.00	Complies
2437 MHz	-15.94	0.03	8.00	Complies
2462 MHz	-14.80	0.03	8.00	Complies

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

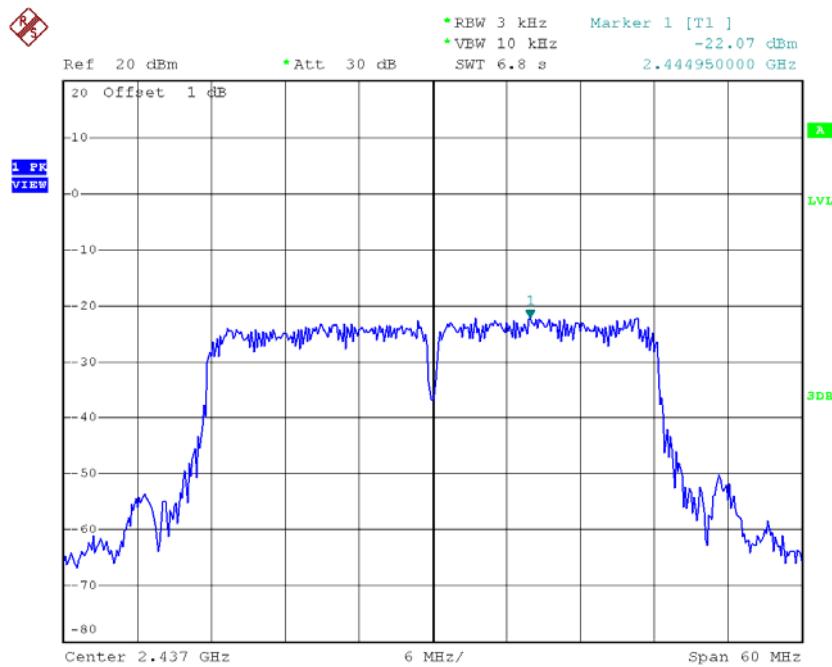
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2422 MHz	-22.91	0.01	8.00	Complies
2437 MHz	-22.07	0.01	8.00	Complies
2452 MHz	-21.36	0.01	8.00	Complies

TX CH03



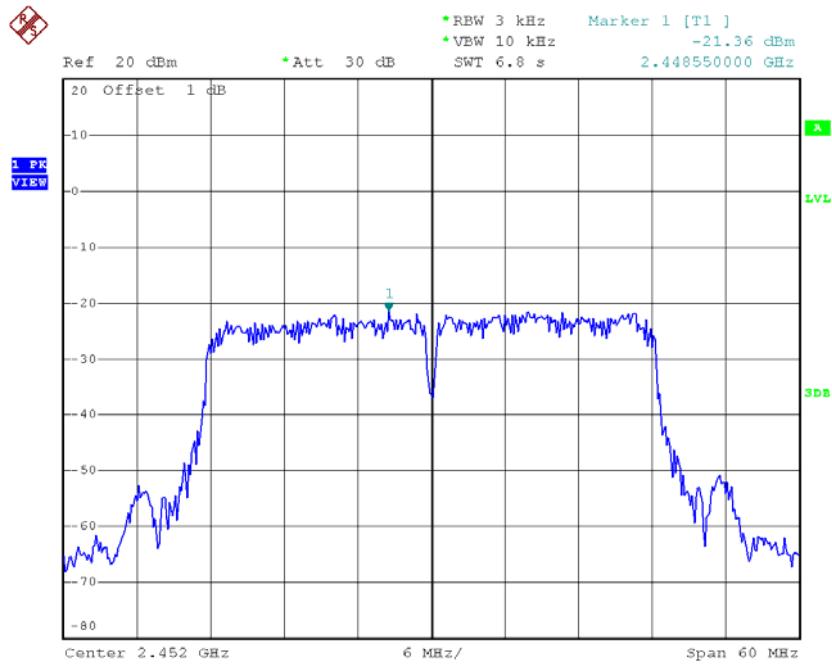
Date: 4.SEP.2014 19:02:07

TX CH06



Date: 4.SEP.2014 19:03:53

TX CH09

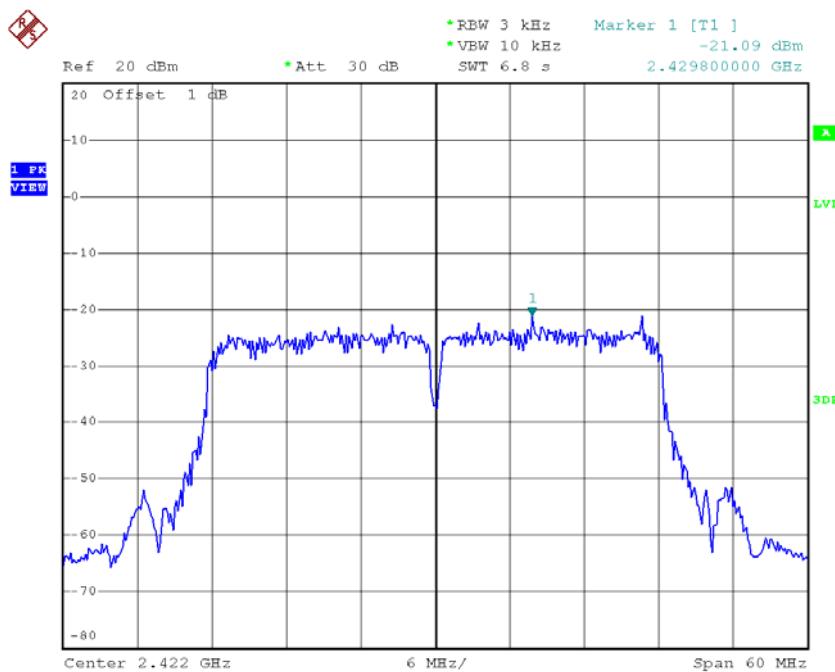


Date: 4.SEP.2014 19:05:38

Test Mode : TX N-40M Mode_CH03/06/09_ANT 2

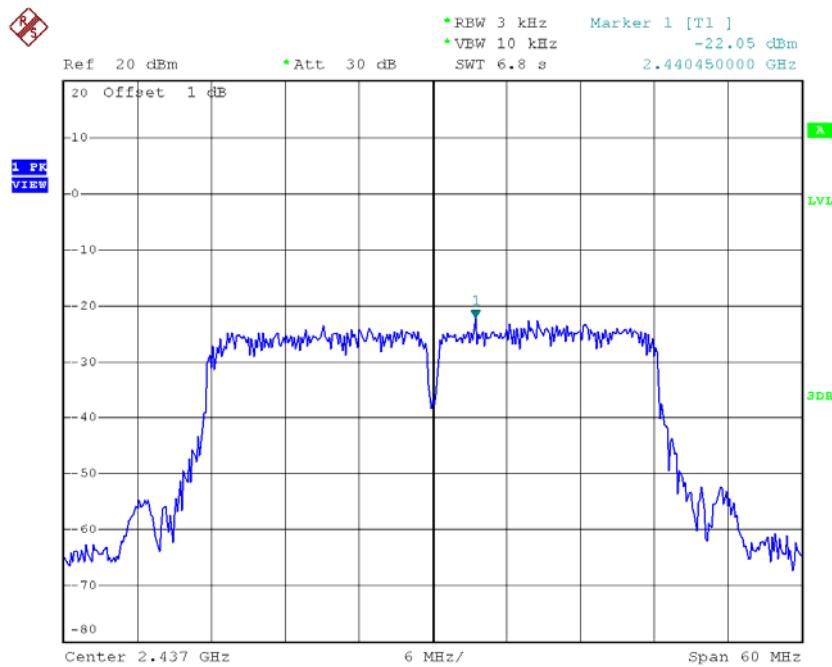
Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2422 MHz	-21.09	0.01	8.00	Complies
2437 MHz	-22.05	0.01	8.00	Complies
2452 MHz	-20.37	0.01	8.00	Complies

TX CH03



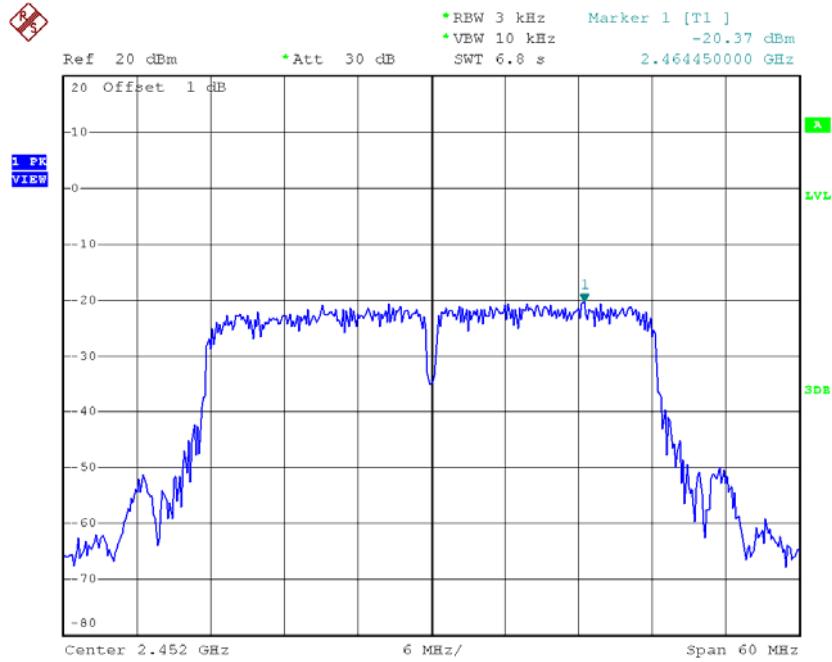
Date: 4.SEP.2014 19:15:29

TX CH06



Date: 4.SEP.2014 19:16:24

TX CH09



Date: 4.SEP.2014 19:21:04

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

Frequency	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm)	Result
2422 MHz	-18.90	0.01	8.00	Complies
2437 MHz	-19.05	0.01	8.00	Complies
2452 MHz	-17.83	0.02	8.00	Complies