

FCC Radio Test Report

FCC ID: V7TA9

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

Project No. : 1606C194
Equipment : Wireless N300 Universal Range Extender
Model Name : A9
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD.
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Date of Receipt : Jun. 15, 2016
Date of Test : Jun. 15, 2016 ~ Jul. 07, 2016
Issued Date : Jul. 08, 2016
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1606C194	Original Issue.	Jul. 08, 2016

1. CERTIFICATION

Equipment : Wireless N300 Universal Range Extender
Brand Name : Tenda
Model Name : A9
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. 15, 2016 ~ Jul. 07, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1606C194) 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
	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.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

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

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless N300 Universal Range Extender		
Brand Name	Tenda		
Model Name	A9		
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: 18.66dBm 802.11g: 25.87dBm 802.11n(20MHz): 29.27dBm 802.11n(40MHz): 27.37dBm
Power Source	AC Mains		
Power Rating	I/P: AC 100-240V 50/60Hz 0.3A		

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 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)
1	Tenda	N/A	Dipole	N/A	3
2	Tenda	N/A	Dipole	N/A	3

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, **Directional gain=G_{ANT}**, that is Directional gain=3.

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.
 - (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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	N/A		
Frequency (MHz)	2412	2437	2462
802.11b	33	34	37
802.11g	49	49	48
802.11n (20MHz)	49	53	48
Frequency	2422	2437	2452
802.11n (40MHz)	48	50	40

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

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

Item	Shielded Type	Ferrite Core	Length	Note
1	N/A	N/A	1.5M	RJ-45 Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)

Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

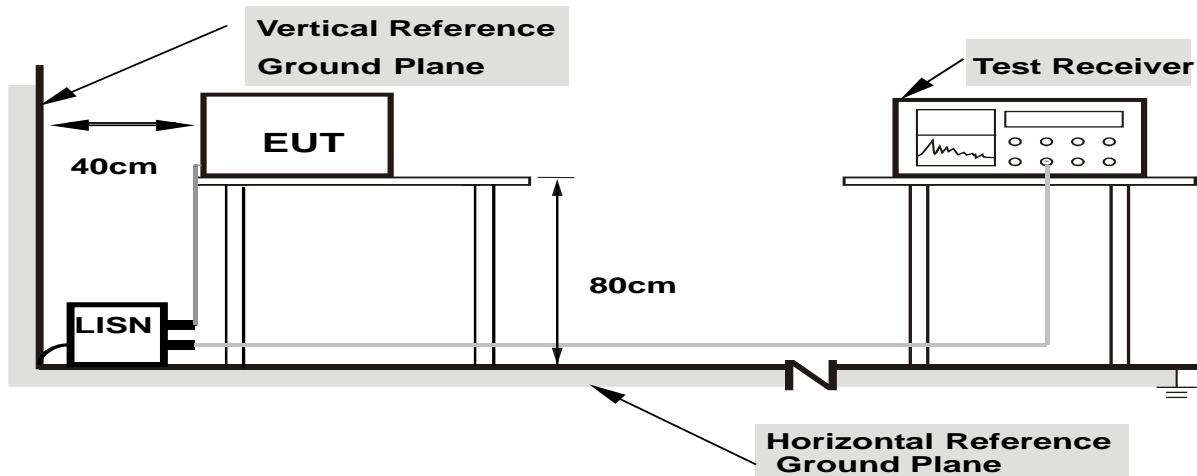
4.1.2 TEST PROCEDURE

- 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 placed on the test table and programmed in normal function.

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

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T 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

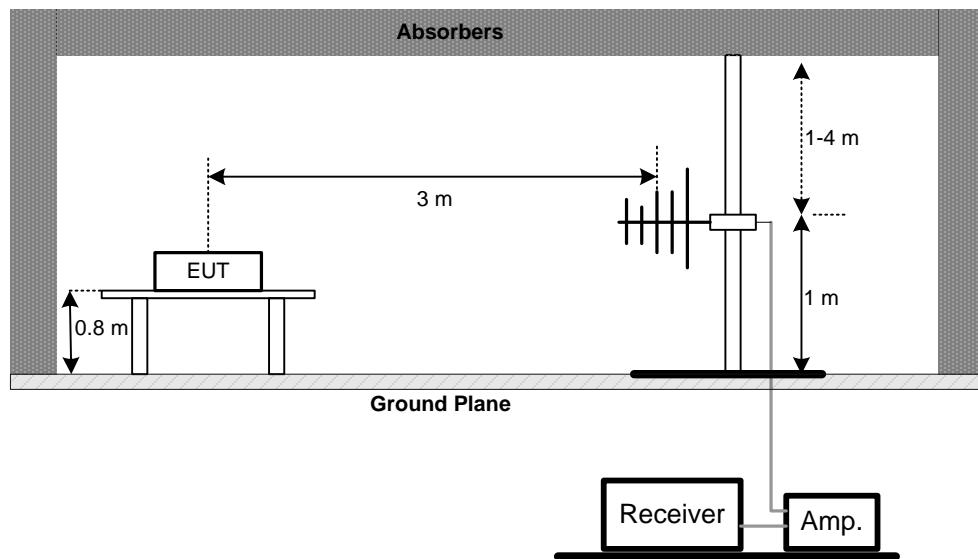
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting conducted emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

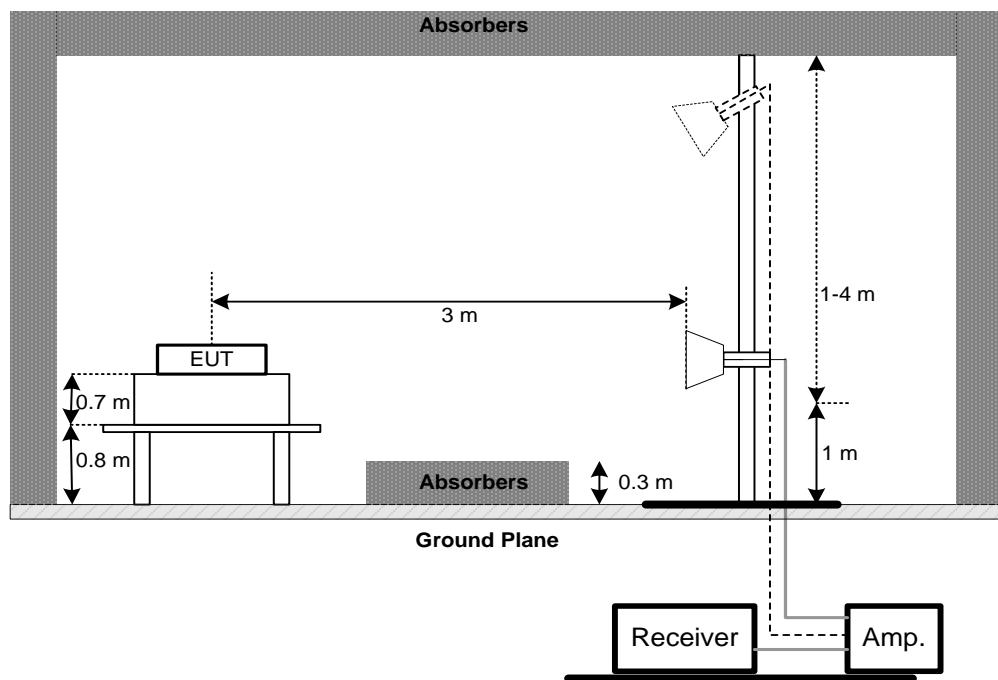
No deviation

4.2.4 TEST SETUP

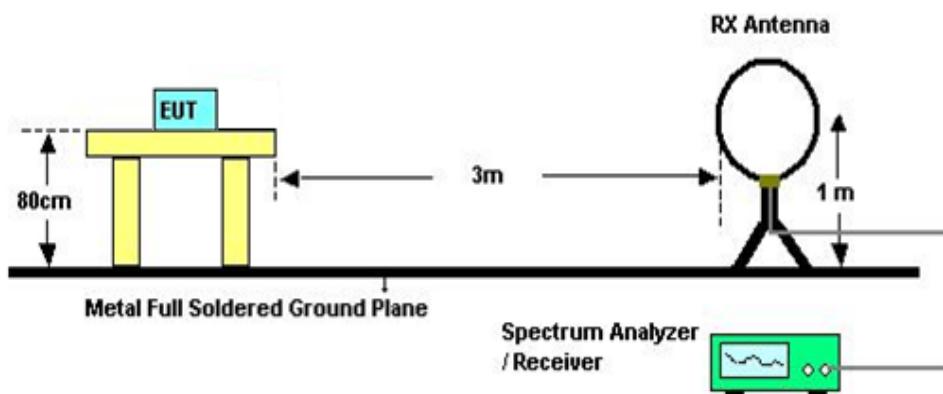
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz

**4.2.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 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 (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

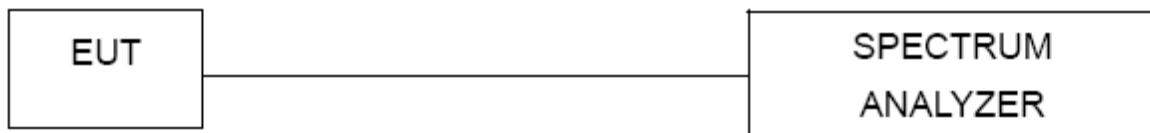
5.1.1 TEST PROCEDURE

- 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 was programmed to be in continuously transmitting mode.

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 PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r05 and FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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 device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

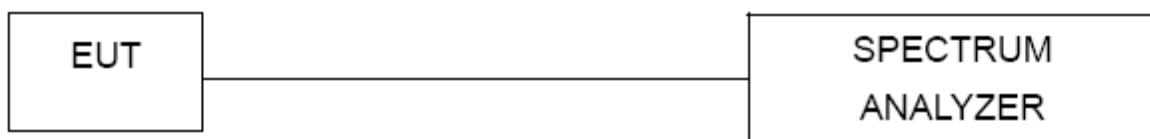
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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 was programmed to be in continuously transmitting mode.

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	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz -30MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz -1GHz)	C-01	Jun. 27, 2017
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF78020841 6	N/A
7	Antenna	ETS	3115	00075789	Mar. 27, 2017
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
9	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz -26.5GHz)	C-68	Jun. 27, 2017
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Peak Output Power Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	power Meter	ANRITSU	ML2495A	1128009	Apr. 26, 2017
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Apr. 26, 2017

Antenna Conducted Spurious Emission Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Power Spectral Density Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

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**

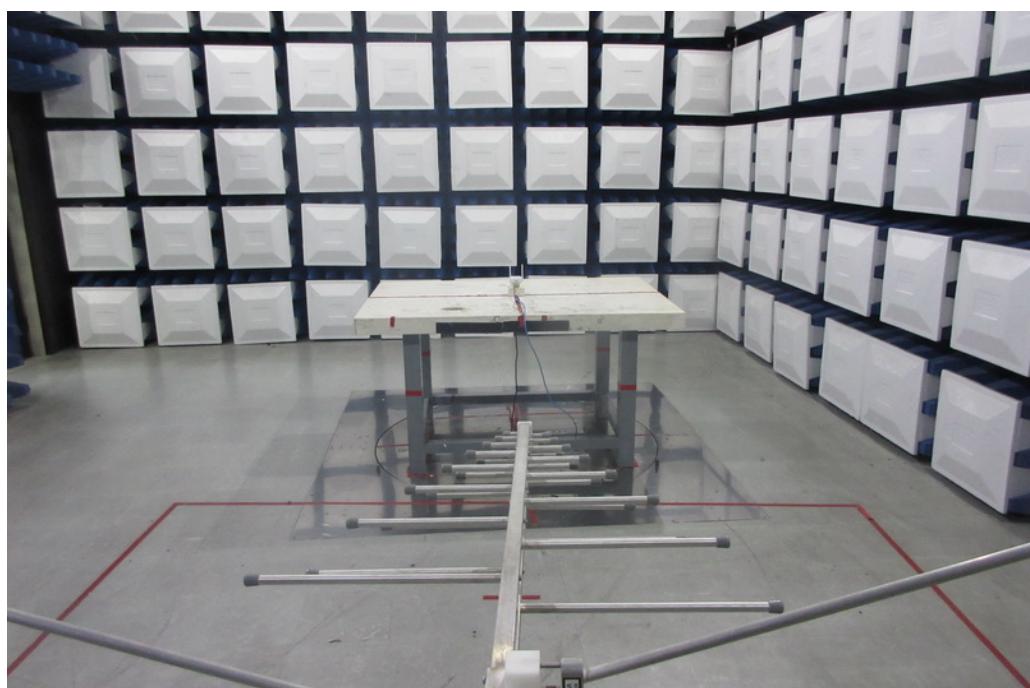
Radiated Measurement Photos

9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

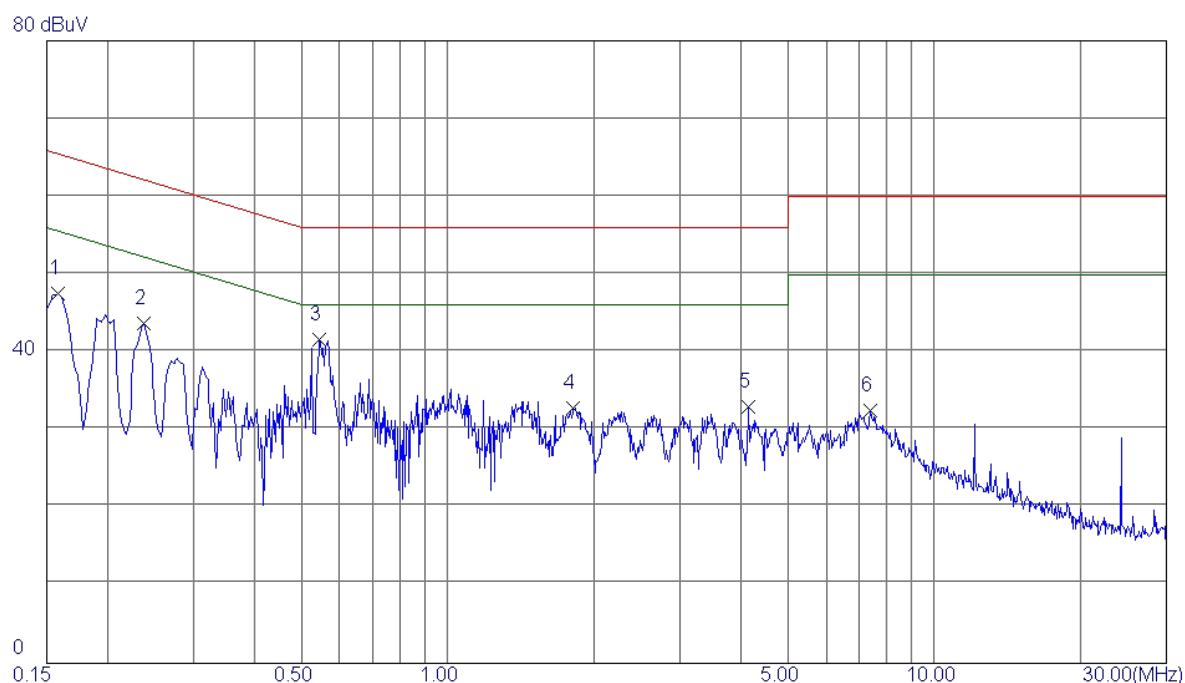
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

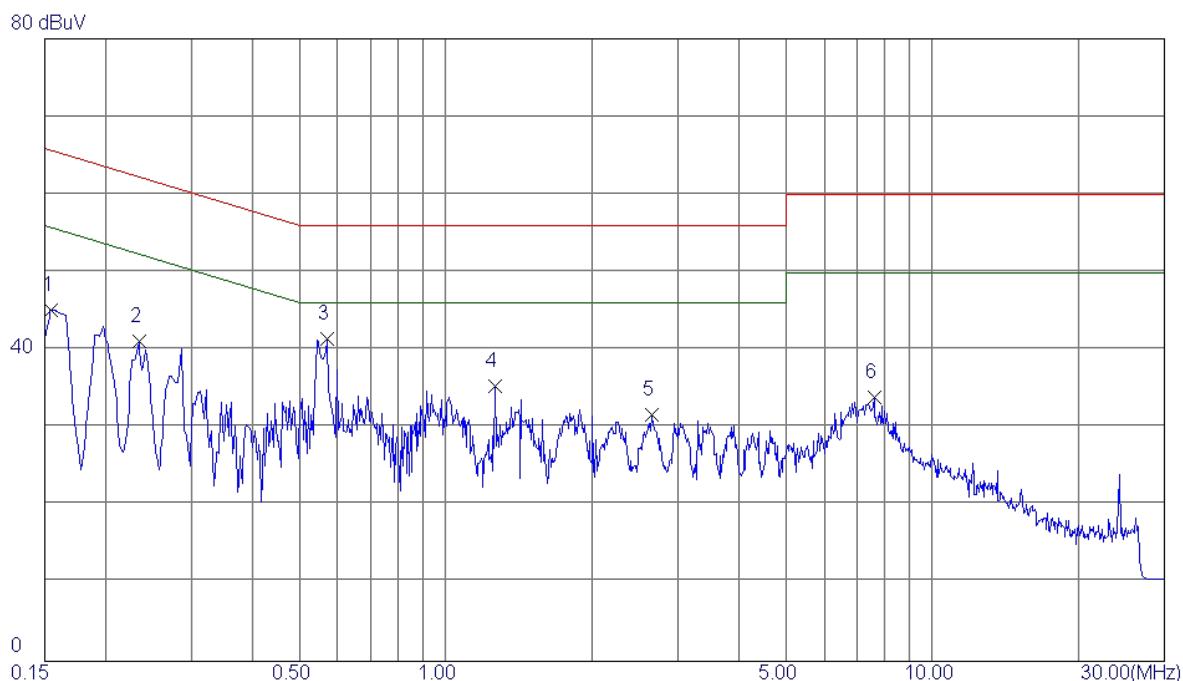
Test Mode : TX MODE

Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1582	37.94	9.52	47.46	65.56	-18.10	Peak	
2	0.2380	34.21	9.53	43.74	62.17	-18.43	Peak	
3 *	0.5460	31.91	9.64	41.55	56.00	-14.45	Peak	
4	1.8140	22.87	9.88	32.75	56.00	-23.25	Peak	
5	4.1420	22.86	10.16	33.02	56.00	-22.98	Peak	
6	7.4060	22.27	10.16	32.43	60.00	-27.57	Peak	

Test Mode : TX MODE

Neutral

No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1548	35.58	9.50	45.08	65.74	-20.66	Peak	
2	0.2340	31.61	9.53	41.14	62.31	-21.17	Peak	
3 *	0.5700	31.97	9.44	41.41	56.00	-14.59	Peak	
4	1.2660	25.67	9.67	35.34	56.00	-20.66	Peak	
5	2.6500	21.93	9.79	31.72	56.00	-24.28	Peak	
6	7.6020	23.94	10.03	33.97	60.00	-26.03	Peak	

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

Test Mode:	TX B MODE CHANNEL 01
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Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0114	0°	13.35	24.8447	38.1947	126.4661	-88.2715	AVG
0.0114	0°	14.22	24.8447	39.0647	146.4661	-107.4015	PEAK
0.0263	0°	6.91	23.9010	30.8110	119.2051	-88.3941	AVG
0.0263	0°	8.64	23.9010	32.5410	139.2051	-106.6641	PEAK
0.0379	0°	3.87	23.1663	27.0363	116.0314	-88.9951	AVG
0.0379	0°	5.61	23.1663	28.7763	136.0314	-107.2551	PEAK
0.0525	0°	1.72	22.3500	24.0700	113.2010	-89.1310	AVG
0.0525	0°	2.57	22.3500	24.9200	133.2010	-108.2810	PEAK
0.5174	0°	19.79	19.8557	39.6457	73.3277	-33.6820	QP
1.9592	0°	23.04	19.5041	42.5441	69.5400	-26.9959	QP

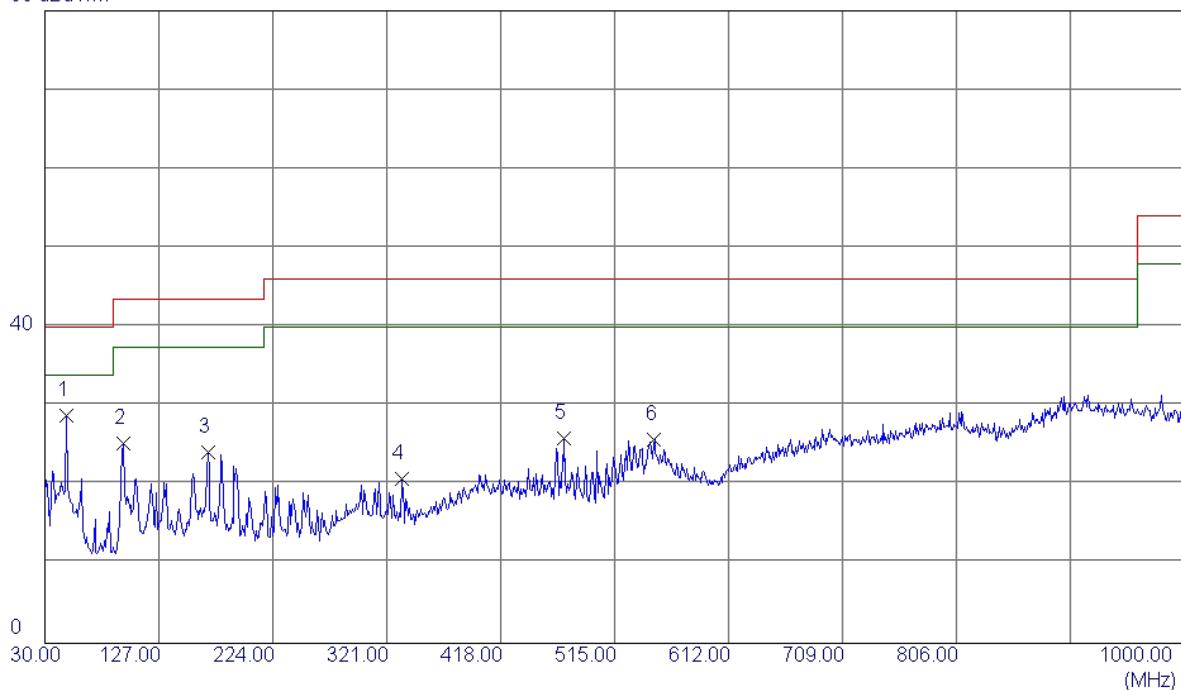
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0127	90°	13.42	24.3000	37.7200	125.5282	-87.8082	AVG
0.0127	90°	14.61	24.3000	38.9100	145.5282	-106.6182	PEAK
0.0249	90°	7.36	23.9897	31.3497	119.6802	-88.3306	AVG
0.0249	90°	8.23	23.9897	32.2197	139.6802	-107.4606	PEAK
0.0431	90°	5.39	22.8370	28.2270	114.9147	-86.6877	AVG
0.0431	90°	6.25	22.8370	29.0870	134.9147	-105.8277	PEAK
0.0574	90°	1.66	22.2520	23.9120	112.4260	-88.5140	AVG
0.0574	90°	2.29	22.2520	24.5420	132.4260	-107.8840	PEAK
0.6233	90°	22.08	20.1946	42.2746	71.7103	-29.4357	QP
2.0538	90°	24.35	19.4677	43.8177	69.5400	-25.7223	QP

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

Test Mode: TX B MODE CHANNEL 01

Vertical

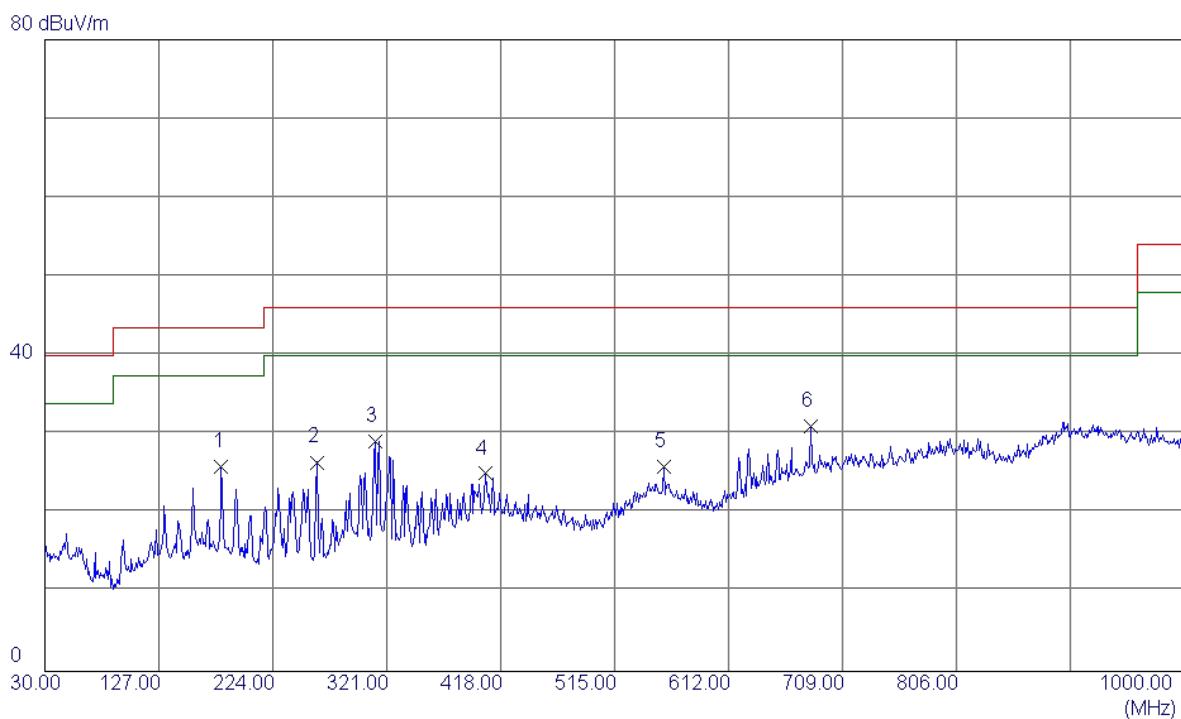
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	48.4300	41.81	-13.07	28.74	40.00	-11.26	Peak	
2	96.9300	41.88	-16.56	25.32	43.50	-18.18	Peak	
3	168.7100	36.42	-12.29	24.13	43.50	-19.37	Peak	
4	333.6099	31.98	-11.24	20.74	46.00	-25.26	Peak	
5	472.3200	35.33	-9.38	25.95	46.00	-20.05	Peak	
6	548.9500	31.14	-5.38	25.76	46.00	-20.24	Peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

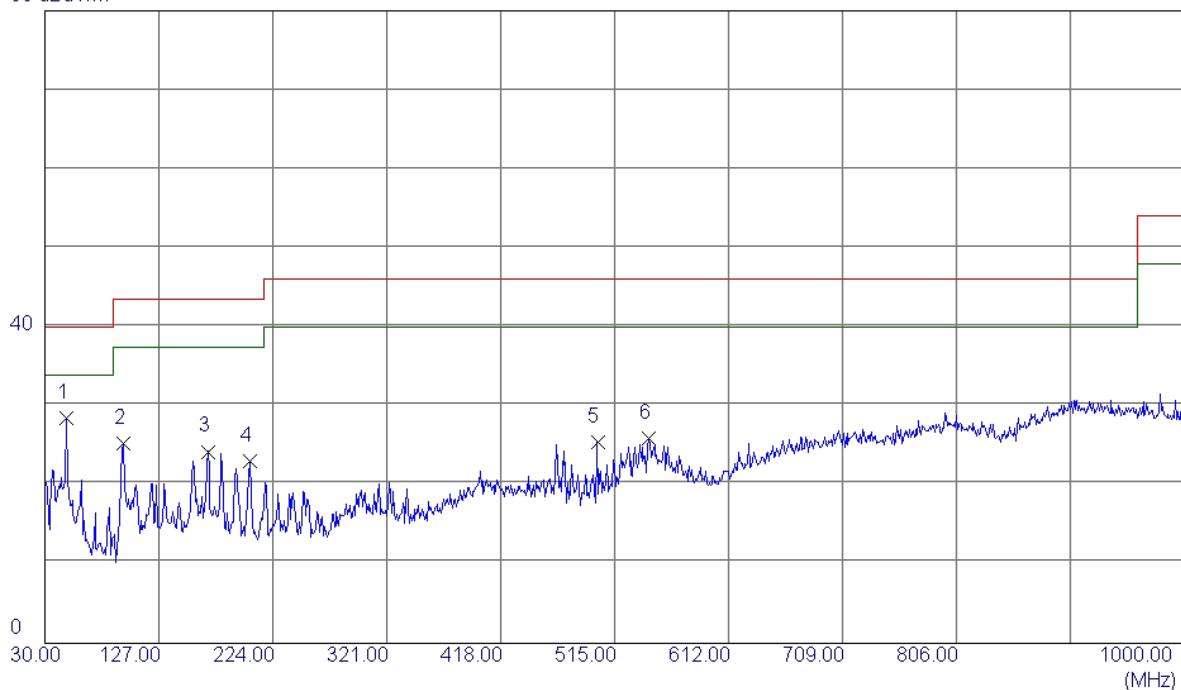


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	180.3500	38.93	-12.95	25.98	43.50	-17.52	Peak	
2	261.8299	40.77	-14.29	26.48	46.00	-19.52	Peak	
3	311.3000	39.91	-10.72	29.19	46.00	-16.81	Peak	
4	405.3900	33.34	-8.30	25.04	46.00	-20.96	Peak	
5	556.7100	31.51	-5.62	25.89	46.00	-20.11	Peak	
6 *	681.8400	34.73	-3.75	30.98	46.00	-15.02	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

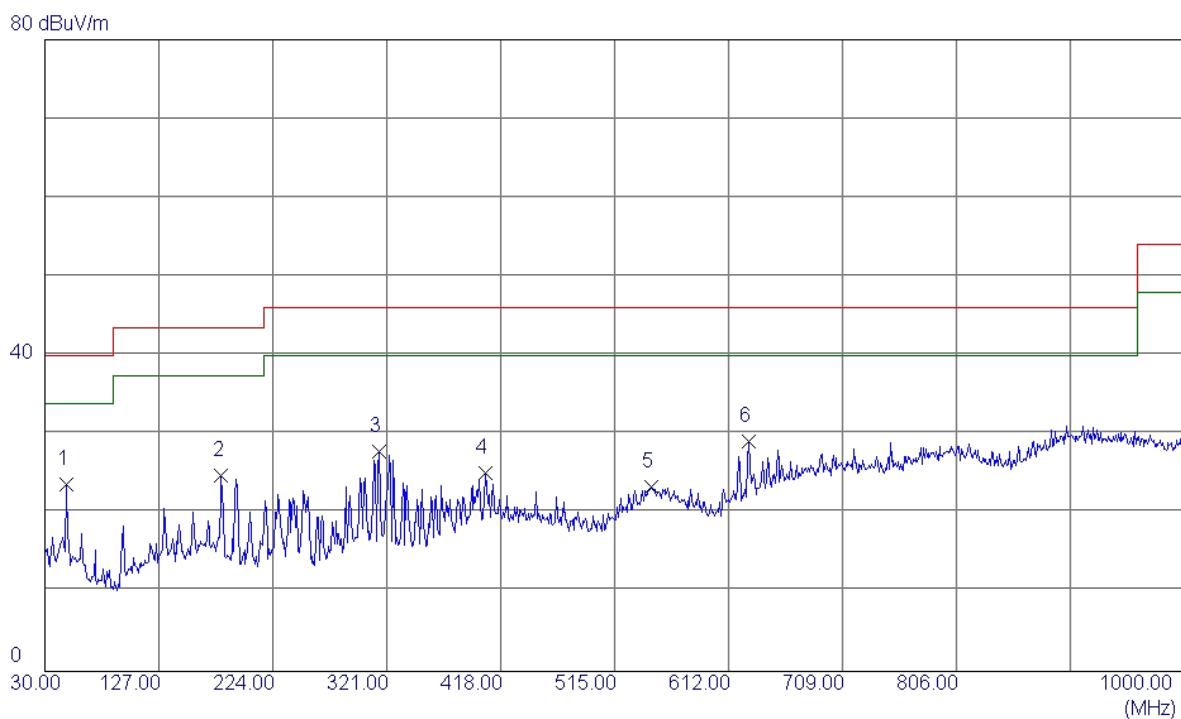
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	48.4300	41.56	-13.07	28.49	40.00	-11.51	Peak	
2	96.9300	41.83	-16.56	25.27	43.50	-18.23	Peak	
3	168.7100	36.53	-12.29	24.24	43.50	-19.26	Peak	
4	204.6000	37.70	-14.65	23.05	43.50	-20.45	Peak	
5	500.4500	35.70	-10.33	25.37	46.00	-20.63	Peak	
6	544.1000	31.75	-5.88	25.87	46.00	-20.13	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

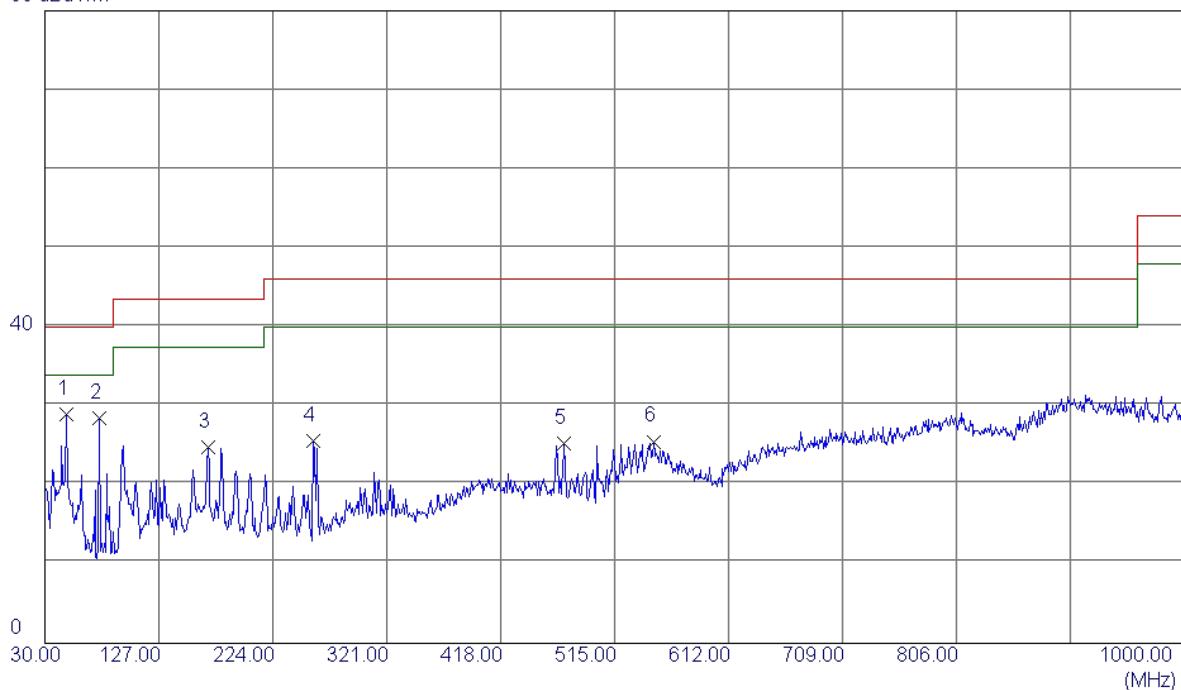


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	48.4300	36.77	-13.07	23.70	40.00	-16.30	Peak	
2	180.3500	37.70	-12.95	24.75	43.50	-18.75	Peak	
3	314.2100	38.63	-10.79	27.84	46.00	-18.16	Peak	
4	405.3900	33.36	-8.30	25.06	46.00	-20.94	Peak	
5	546.0400	29.09	-5.68	23.41	46.00	-22.59	Peak	
6	629.4600	35.30	-6.20	29.10	46.00	-16.90	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

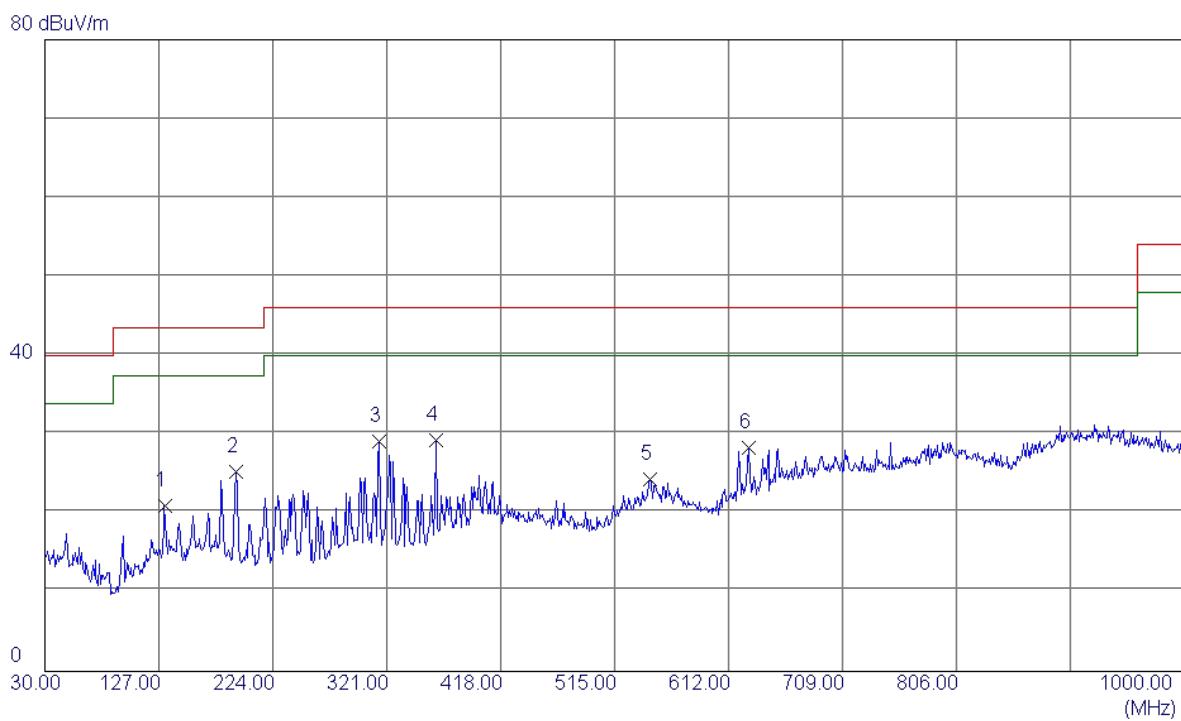
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	48.4300	41.99	-13.07	28.92	40.00	-11.08	Peak	
2	76.5600	44.86	-16.35	28.51	40.00	-11.49	Peak	
3	168.7100	37.12	-12.29	24.83	43.50	-18.67	Peak	
4	258.9200	40.09	-14.43	25.66	46.00	-20.34	Peak	
5	472.3200	34.62	-9.38	25.24	46.00	-20.76	Peak	
6	547.9800	31.00	-5.48	25.52	46.00	-20.48	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal



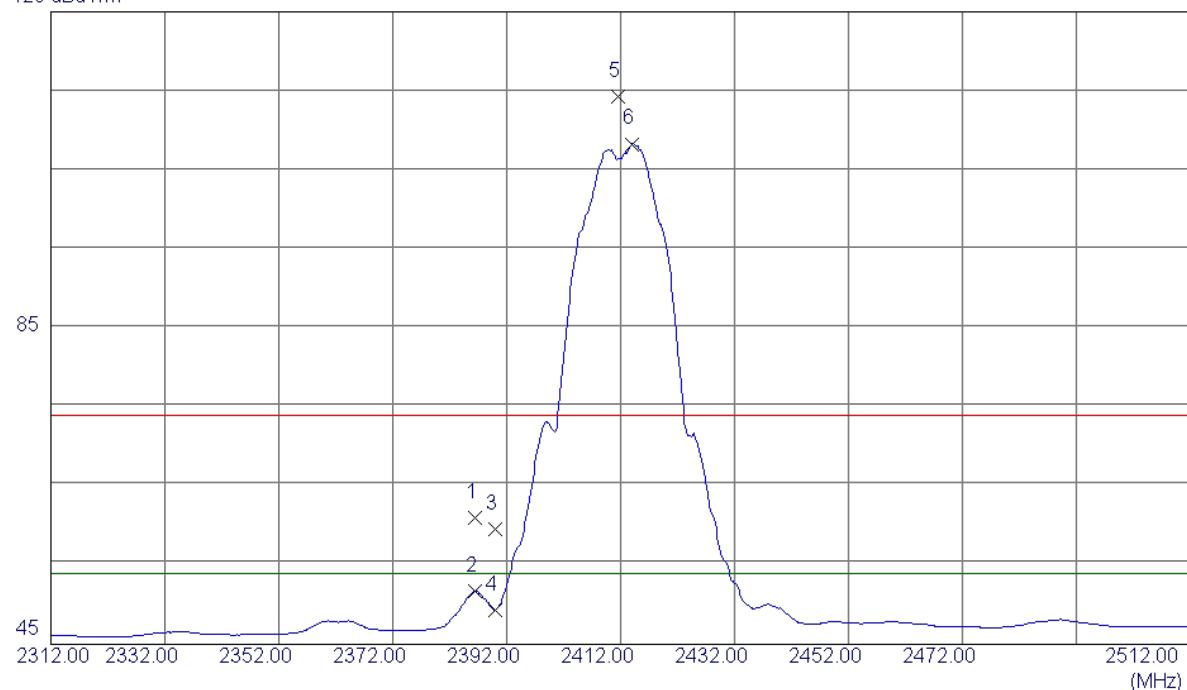
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	131.8500	33.57	-12.62	20.95	43.50	-22.55	Peak	
2	192.9600	39.42	-14.18	25.24	43.50	-18.26	Peak	
3	314.2100	39.87	-10.79	29.08	46.00	-16.92	Peak	
4 *	362.7100	40.08	-10.76	29.32	46.00	-16.68	Peak	
5	545.0700	30.13	-5.78	24.35	46.00	-21.65	Peak	
6	629.4600	34.54	-6.20	28.34	46.00	-17.66	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

125 dBuV/m

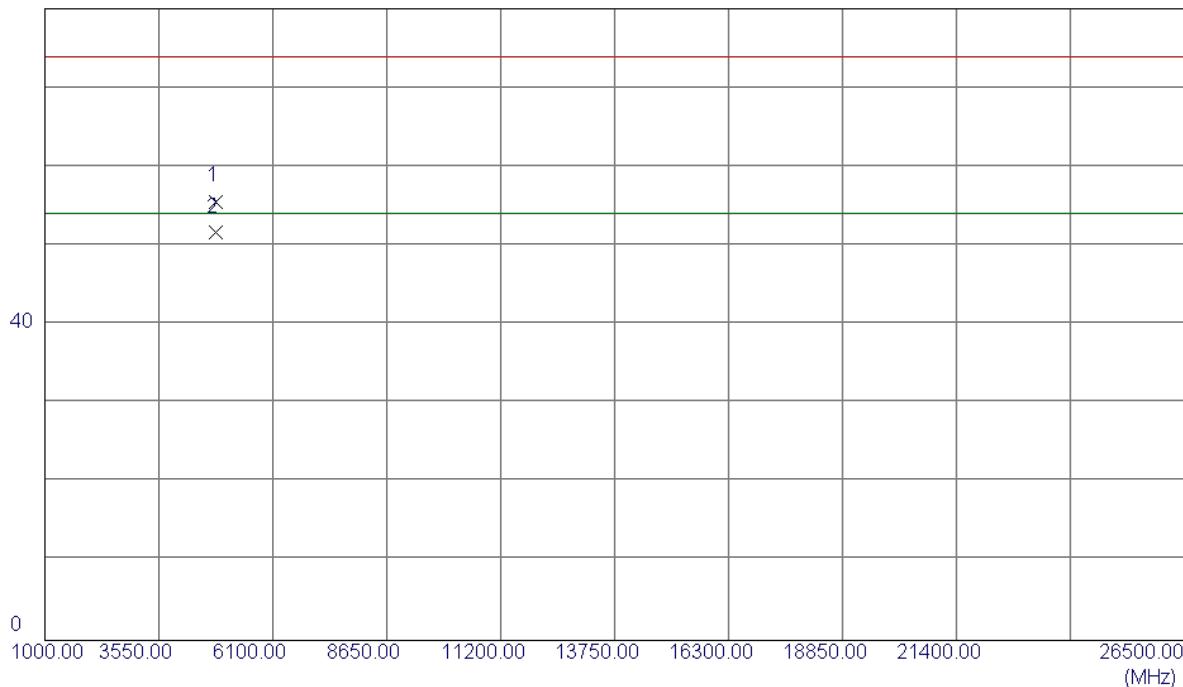


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.4000	28.29	32.75	61.04	74.00	-12.96	Peak	
2	2386.4000	19.00	32.75	51.75	54.00	-2.25	Avg	
3	2390.0000	26.85	32.77	59.62	74.00	-14.38	Peak	
4	2390.0000	16.61	32.77	49.38	54.00	-4.62	Avg	
5	2411.6000	81.36	32.86	114.22	74.00	40.22	Peak	No Limit
6 *	2414.0000	75.41	32.87	108.28	54.00	54.28	Avg	No Limit

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

Vertical

80 dBuV/m

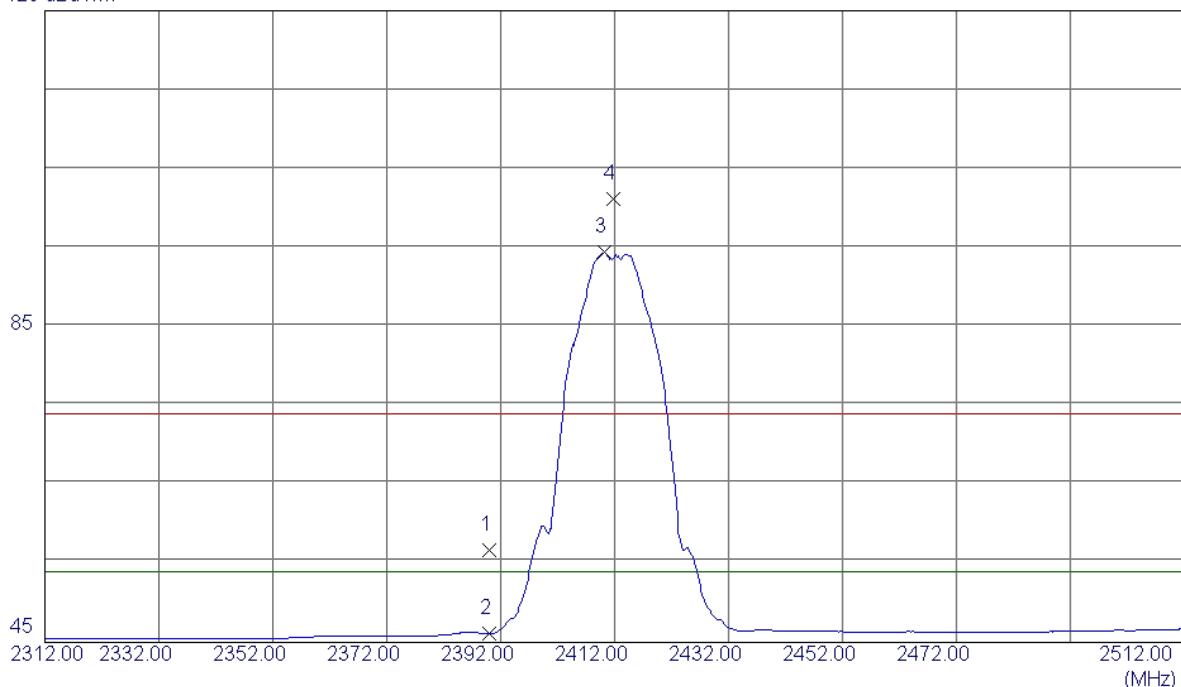


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9400	50.91	4.69	55.60	74.00	-18.40	Peak	
2 *	4823.9800	46.94	4.69	51.63	54.00	-2.37	AVG	

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

Horizontal

125 dBuV/m

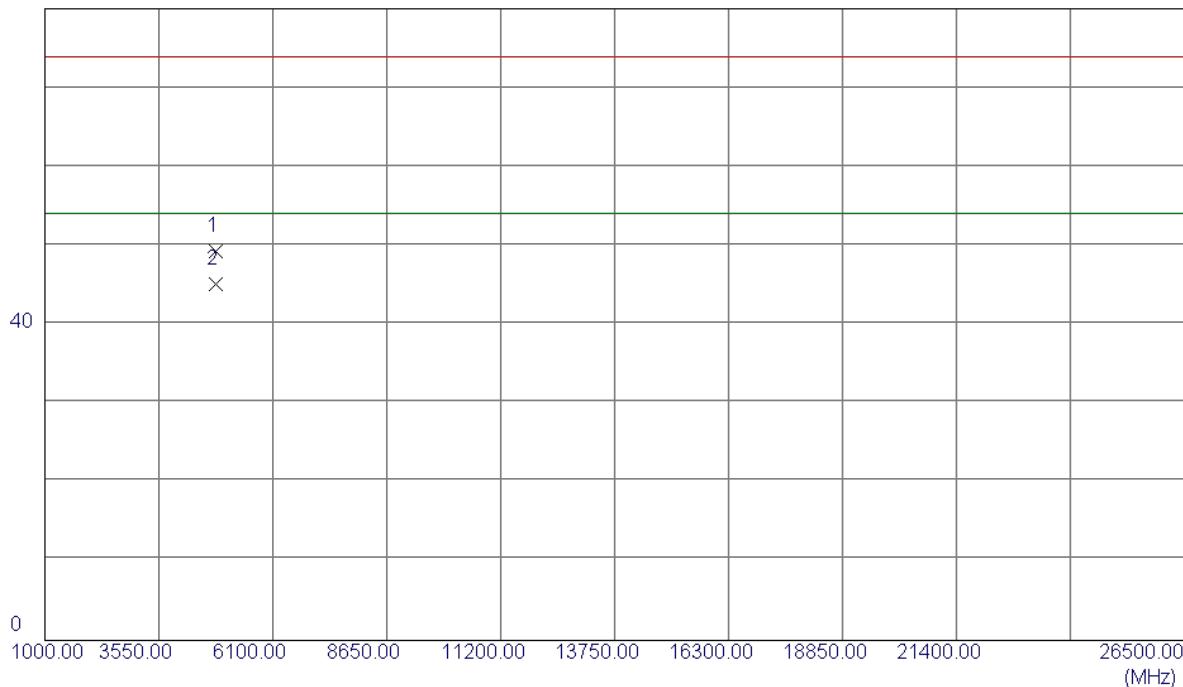


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.98	32.77	56.75	74.00	-17.25	Peak	
2	2390.0000	13.32	32.77	46.09	54.00	-7.91	Avg	
3 *	2410.2000	61.64	32.85	94.49	54.00	40.49	Avg	No Limit
4	2411.8000	68.34	32.86	101.20	74.00	27.20	Peak	No Limit

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

Horizontal

80 dBuV/m

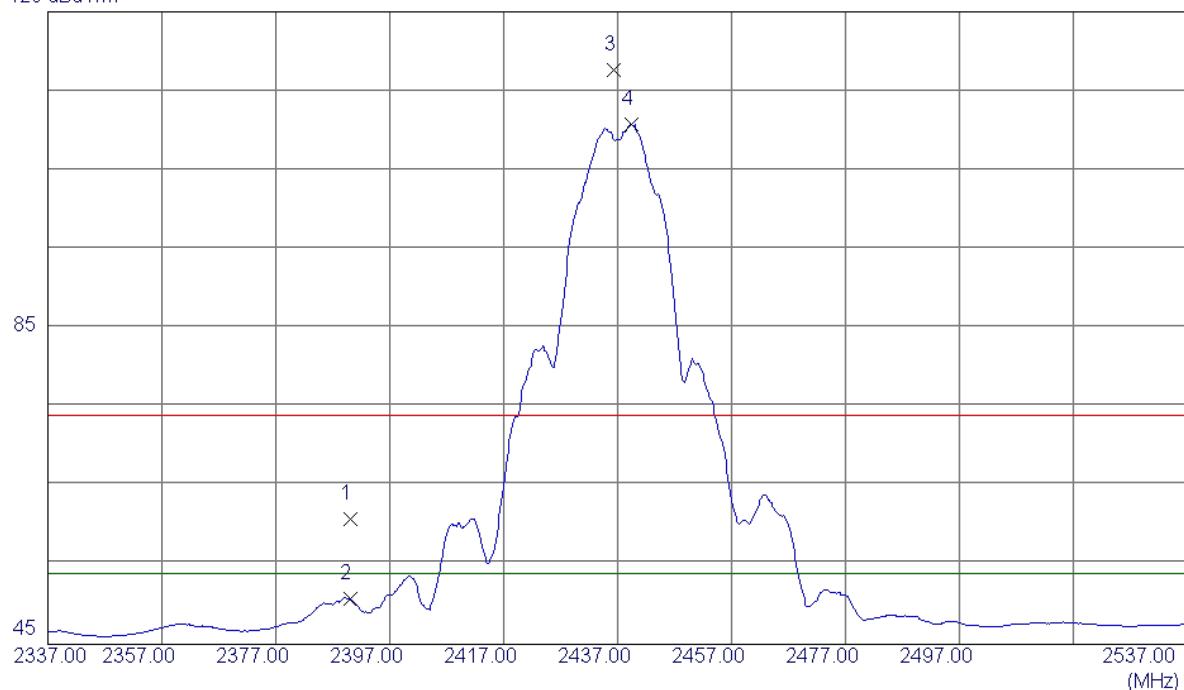


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	44.63	4.69	49.32	74.00	-24.68	Peak	
2 *	4824.0400	40.38	4.69	45.07	54.00	-8.93	AVG	

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

Vertical

125 dBuV/m

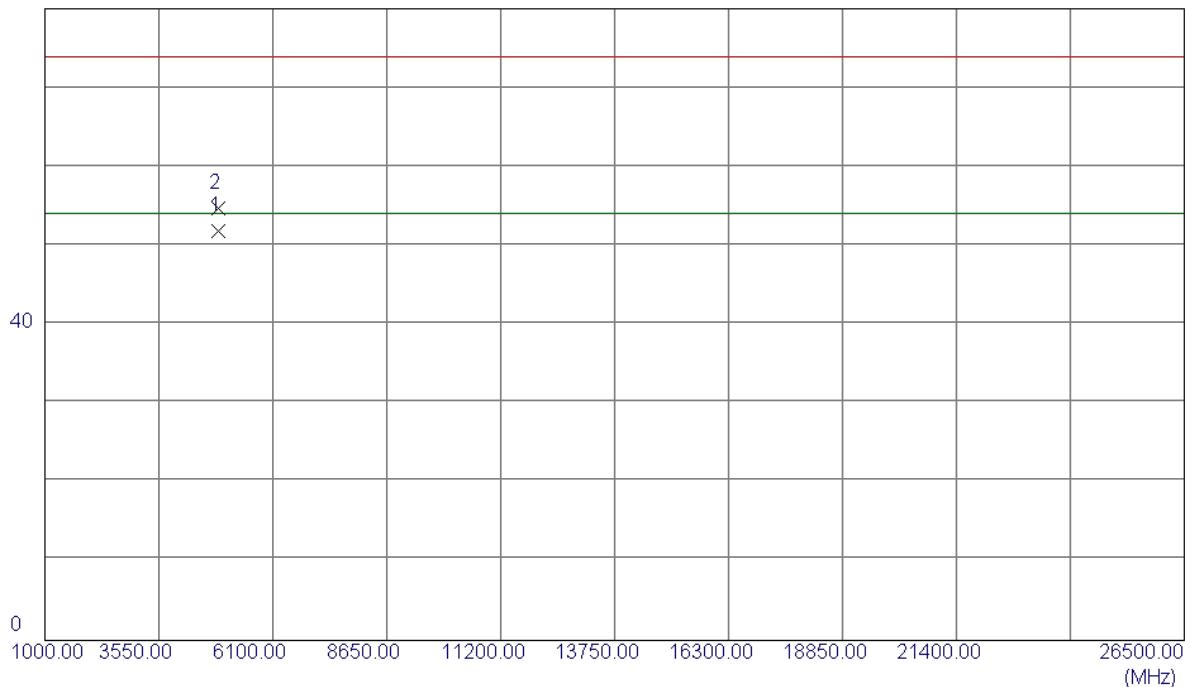


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	28.12	32.77	60.89	74.00	-13.11	Peak	
2	2390.0000	18.02	32.77	50.79	54.00	-3.21	Avg	
3	2436.4000	84.63	32.96	117.59	74.00	43.59	Peak	No Limit
4 *	2439.4000	77.84	32.97	110.81	54.00	56.81	Avg	No Limit

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

Vertical

80 dBuV/m

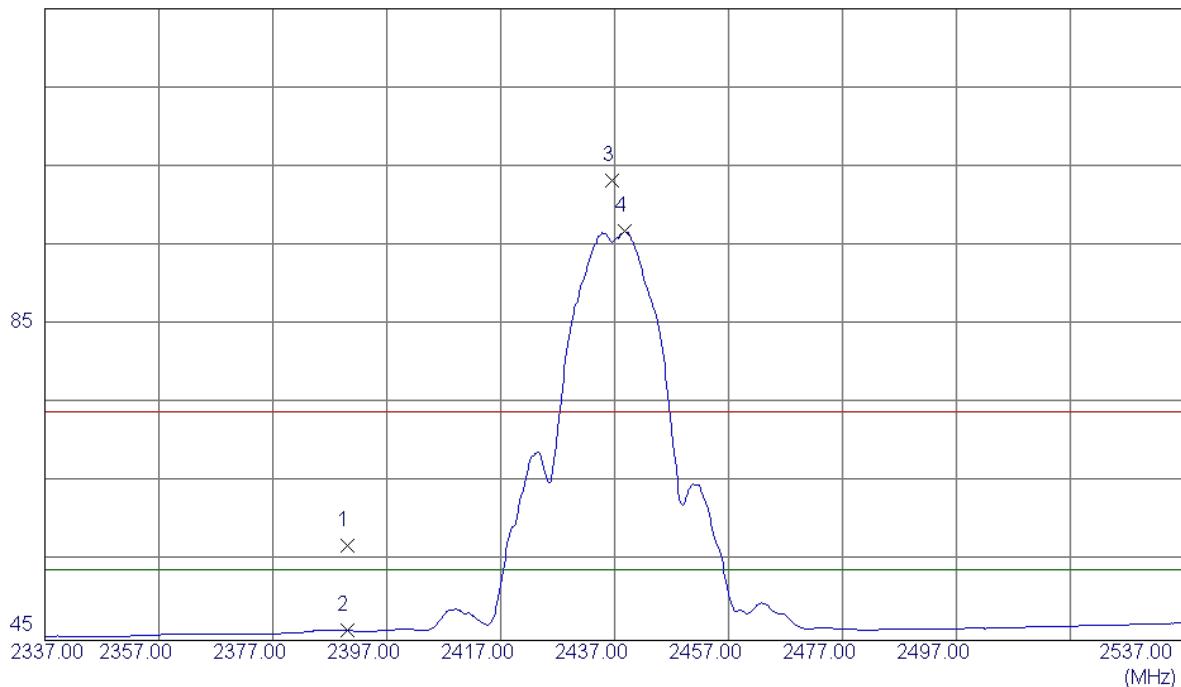


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9500	46.90	4.89	51.79	54.00	-2.21	AVG	
2	4873.9800	49.80	4.89	54.69	74.00	-19.31	Peak	

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

Horizontal

125 dBuV/m

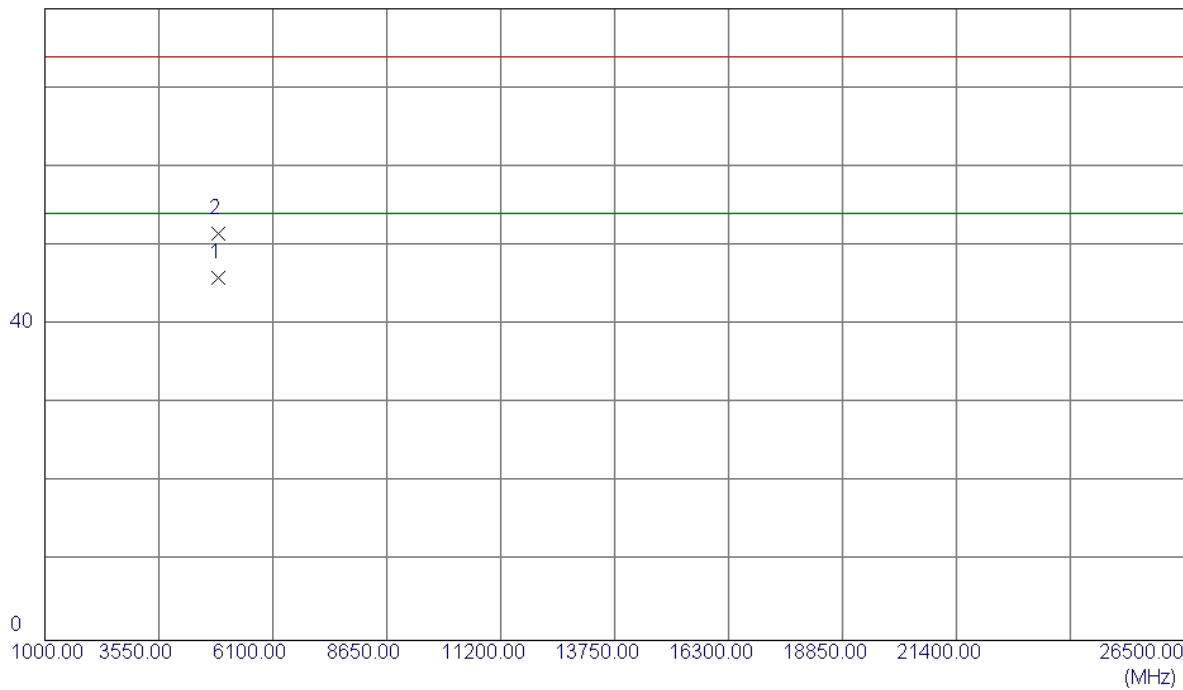


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.22	32.77	56.99	74.00	-17.01	Peak	
2	2390.0000	13.51	32.77	46.28	54.00	-7.72	Avg	
3	2436.6000	70.33	32.96	103.29	74.00	29.29	Peak	No Limit
4 *	2438.8000	63.85	32.97	96.82	54.00	42.82	Avg	No Limit

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

Horizontal

80 dBuV/m

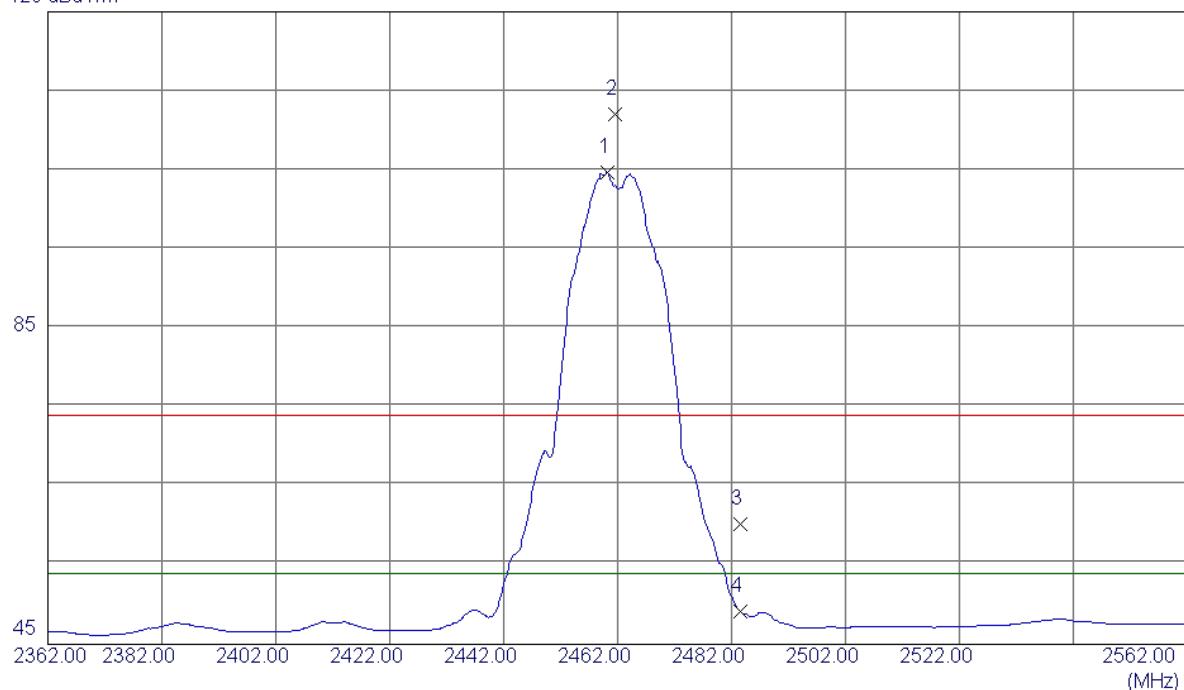


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9700	41.08	4.89	45.97	54.00	-8.03	AVG	
2	4874.0040	46.70	4.89	51.59	74.00	-22.41	Peak	

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

Vertical

125 dBuV/m

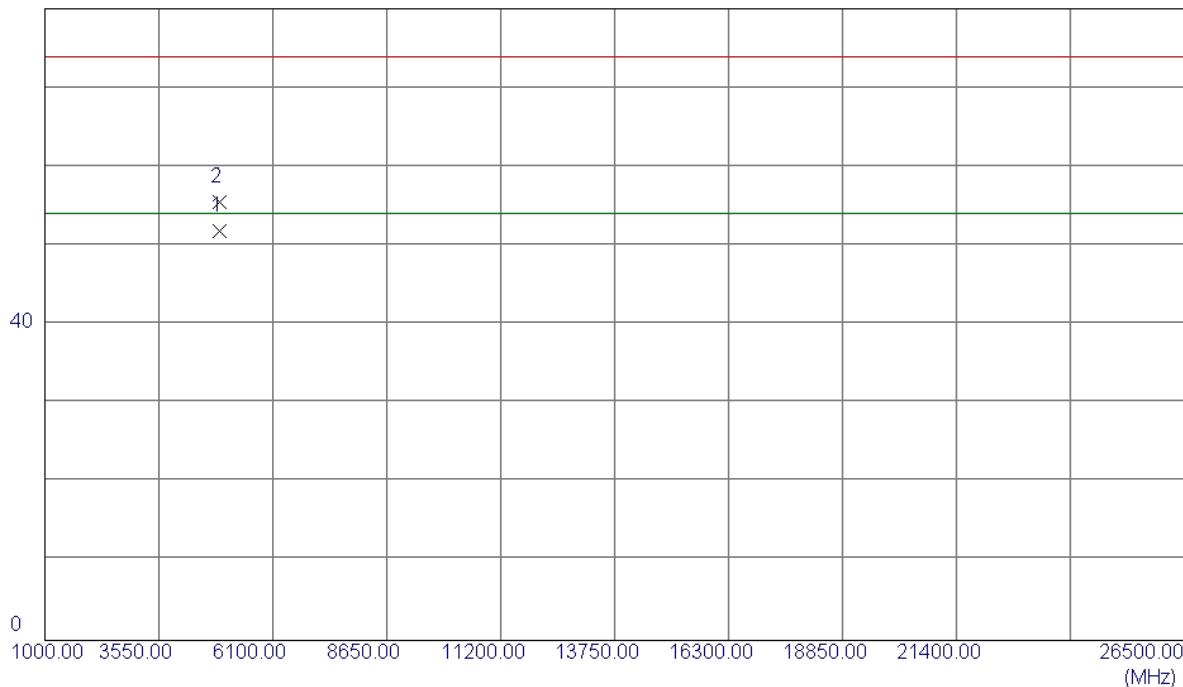


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.2000	71.62	33.06	104.68	54.00	50.68	Avg	No Limit
2	2461.6000	78.94	33.06	112.00	74.00	38.00	Peak	No Limit
3	2483.5000	27.04	33.15	60.19	74.00	-13.81	Peak	
4	2483.5000	16.01	33.15	49.16	54.00	-4.84	Avg	

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

Vertical

80 dBuV/m

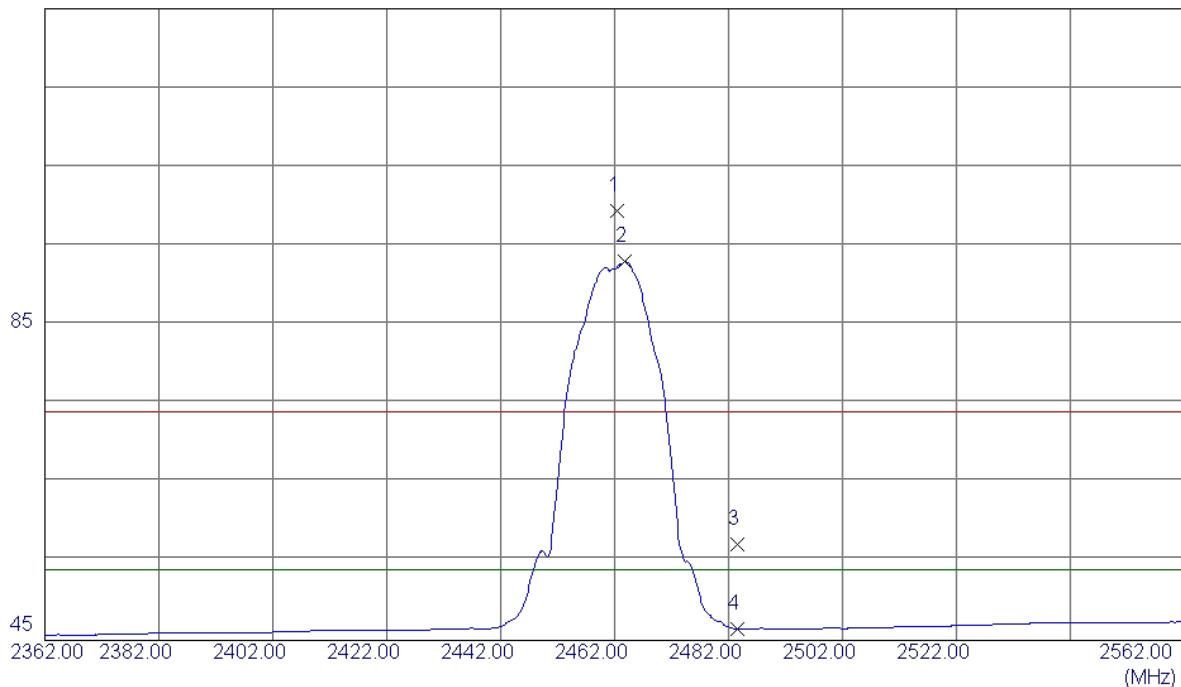


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0019	46.75	5.08	51.83	54.00	-2.17	AVG	
2	4924.0379	50.44	5.08	55.52	74.00	-18.48	Peak	

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

Horizontal

125 dBuV/m

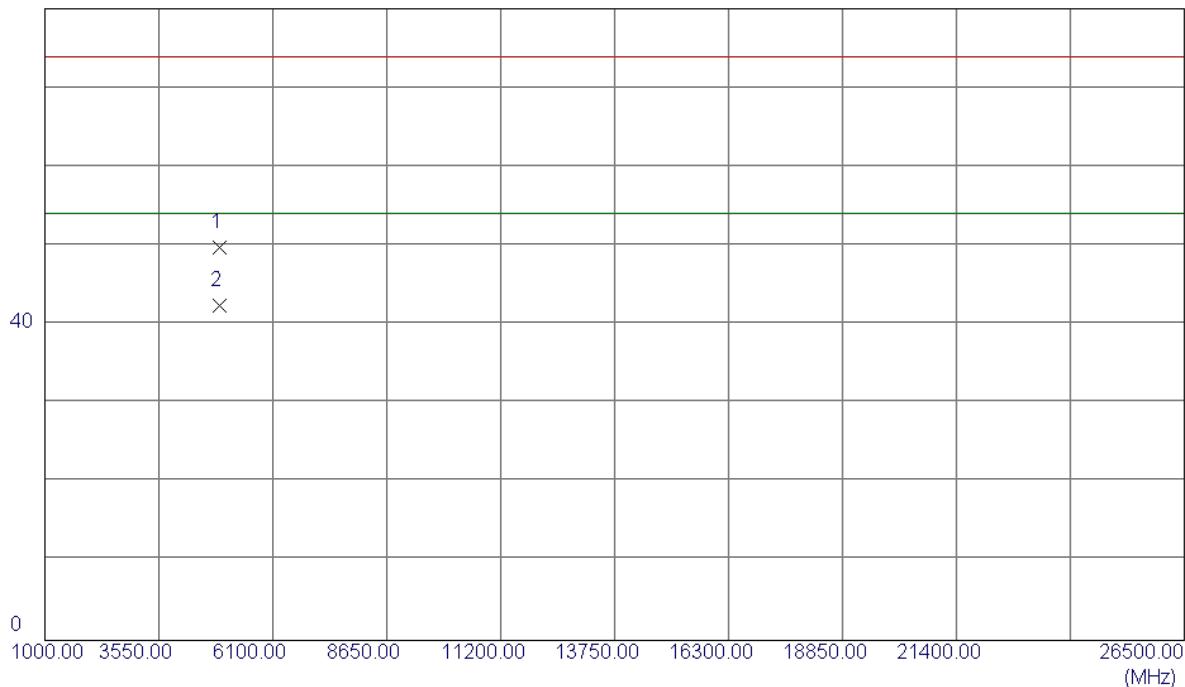


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.4000	66.26	33.07	99.33	74.00	25.33	Peak	No Limit
2 *	2463.8000	59.99	33.07	93.06	54.00	39.06	Avg	No Limit
3	2483.5000	24.06	33.15	57.21	74.00	-16.79	Peak	
4	2483.5000	13.31	33.15	46.46	54.00	-7.54	Avg	

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

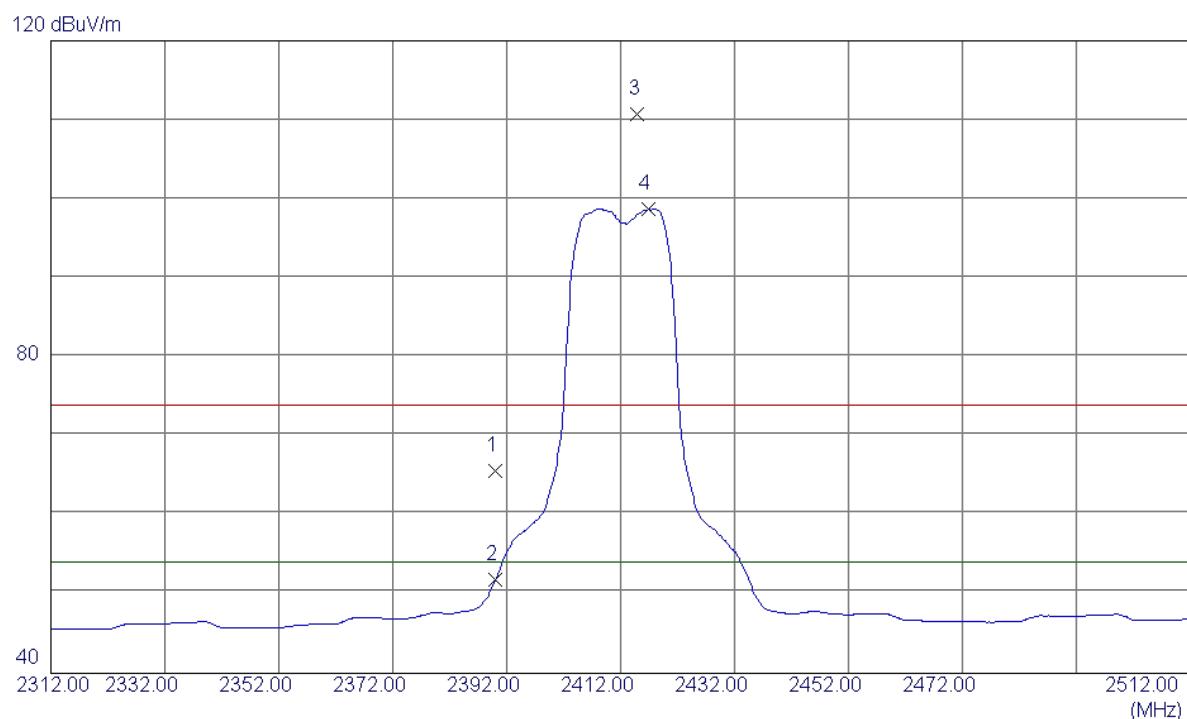
Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9840	44.74	5.08	49.82	74.00	-24.18	Peak	
2 *	4923.9960	37.33	5.08	42.41	54.00	-11.59	AVG	

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

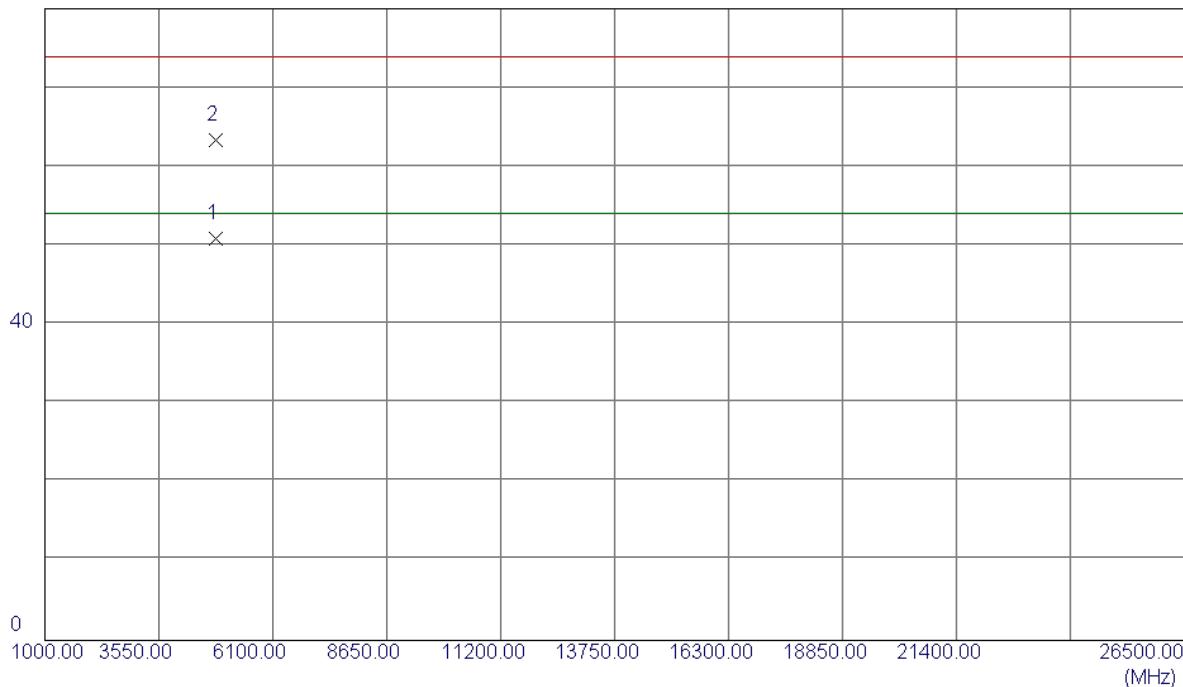
Vertical

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	32.77	32.77	65.54	74.00	-8.46	Peak	
2	2390.0000	19.02	32.77	51.79	54.00	-2.21	Avg	
3	2415.0000	77.79	32.87	110.66	74.00	36.66	Peak	No Limit
4 *	2416.8000	65.84	32.88	98.72	54.00	44.72	Avg	No Limit

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

Vertical

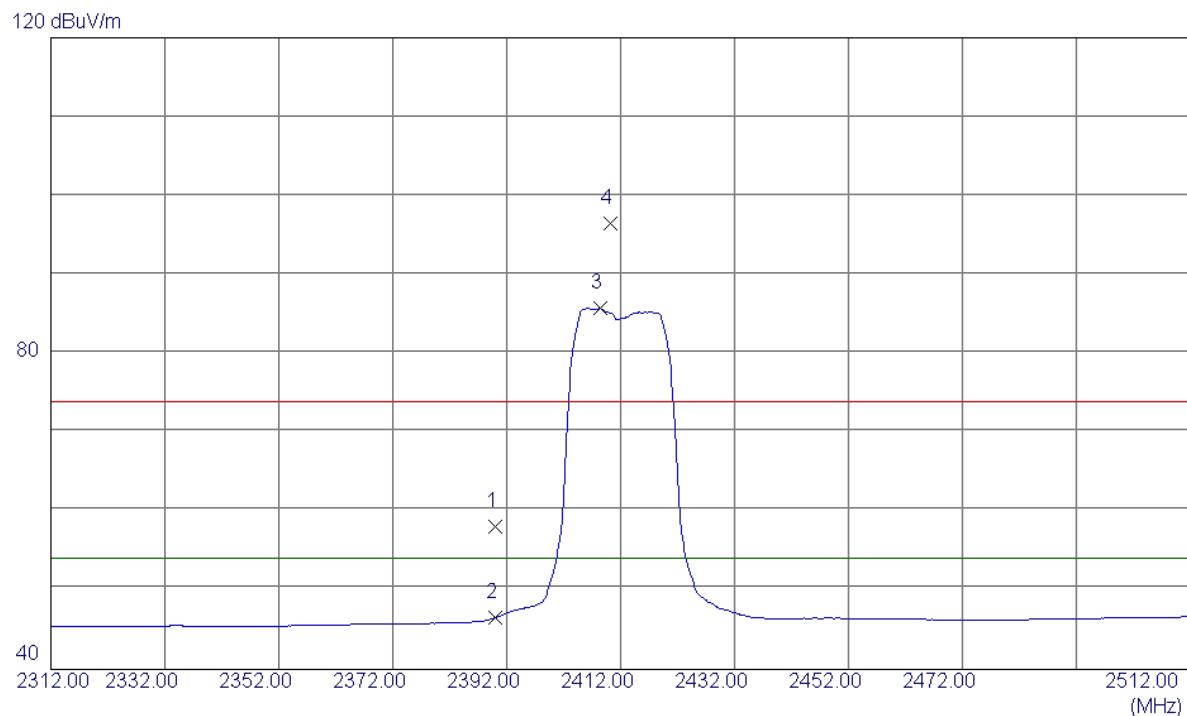
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.3000	46.17	4.69	50.86	54.00	-3.14	AVG	
2	4827.9000	58.60	4.71	63.31	74.00	-10.69	Peak	

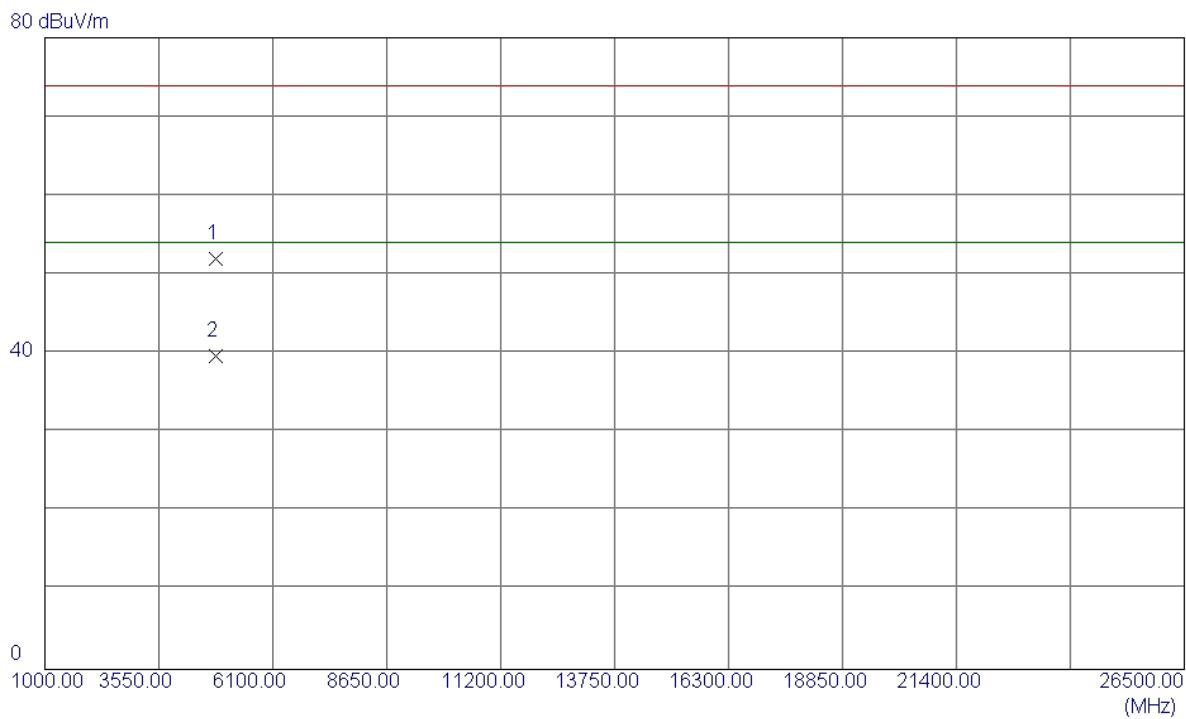
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Horizontal



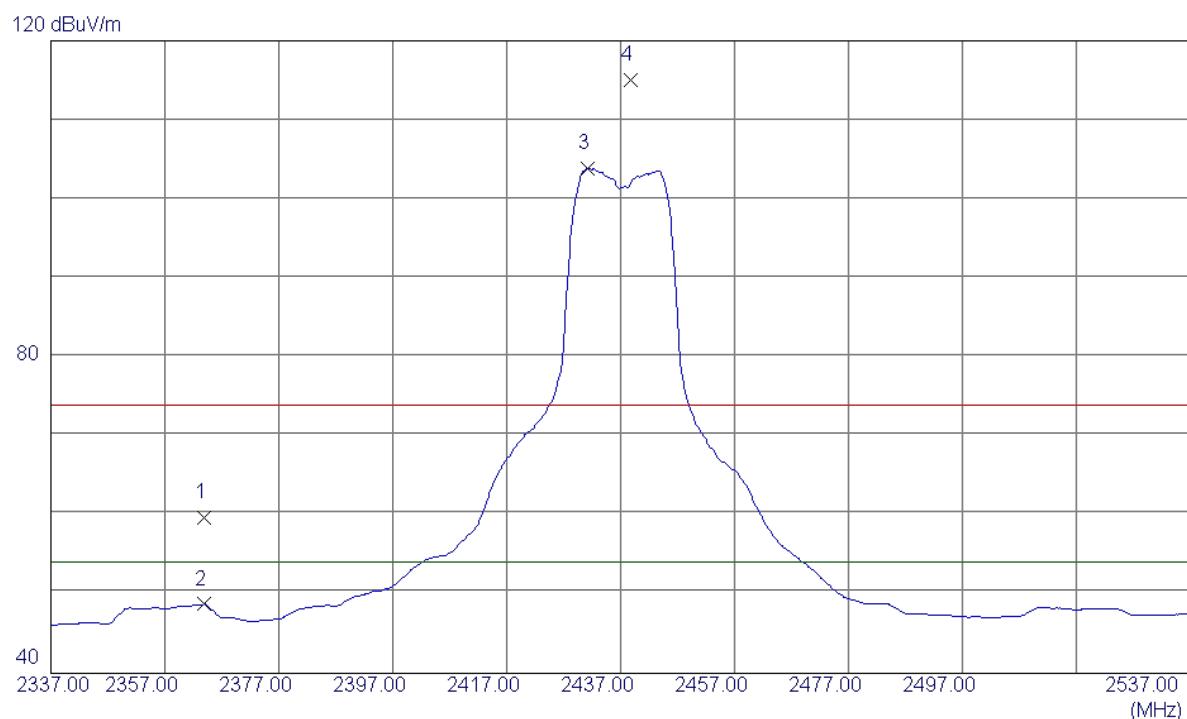
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.32	32.77	58.09	74.00	-15.91	Peak	
2	2390.0000	13.77	32.77	46.54	54.00	-7.46	Avg	
3 *	2408.4000	52.87	32.84	85.71	54.00	31.71	Avg	No Limit
4	2410.2000	63.60	32.85	96.45	74.00	22.45	Peak	No Limit

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

Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4821.3000	47.38	4.68	52.06	74.00	-21.94	Peak	
2 *	4823.9000	35.00	4.69	39.69	54.00	-14.31	AVG	

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

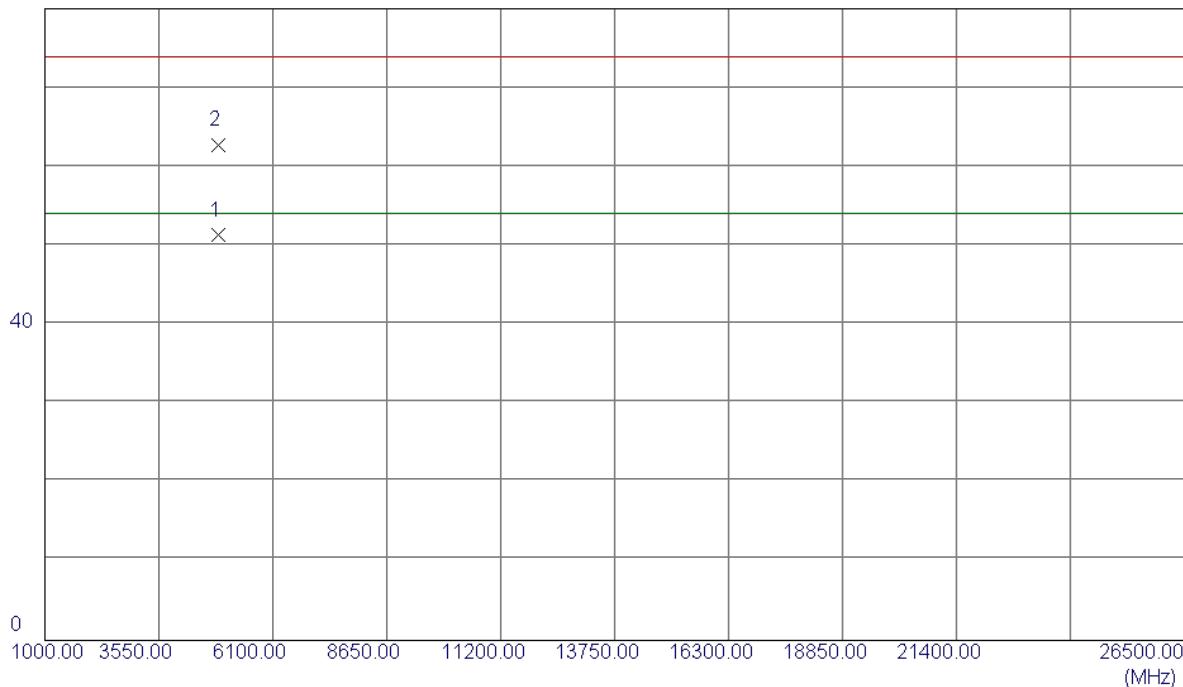
Vertical

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2363.8000	26.98	32.66	59.64	74.00	-14.36	Peak	
2	2363.8000	16.06	32.66	48.72	54.00	-5.28	Avg	
3 *	2431.2000	70.89	32.94	103.83	54.00	49.83	Avg	No Limit
4	2438.8000	82.05	32.97	115.02	74.00	41.02	Peak	No Limit

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

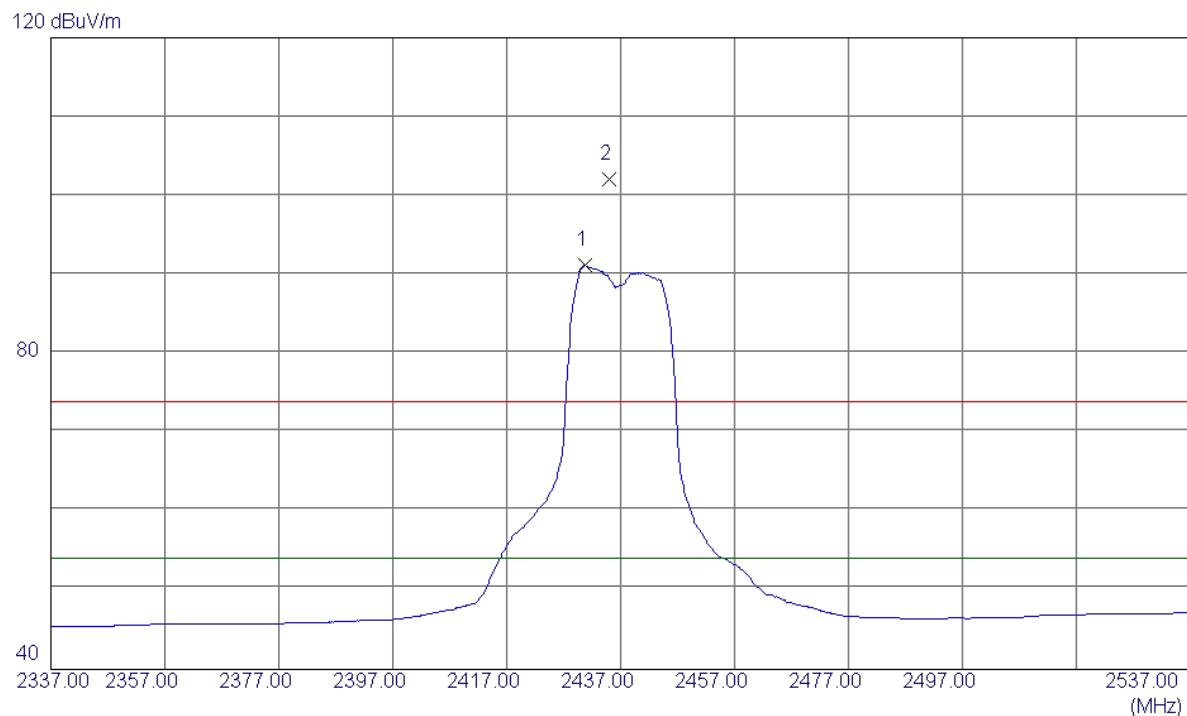
Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0500	46.39	4.89	51.28	54.00	-2.72	AVG	
2	4875.1950	57.84	4.89	62.73	74.00	-11.27	Peak	

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

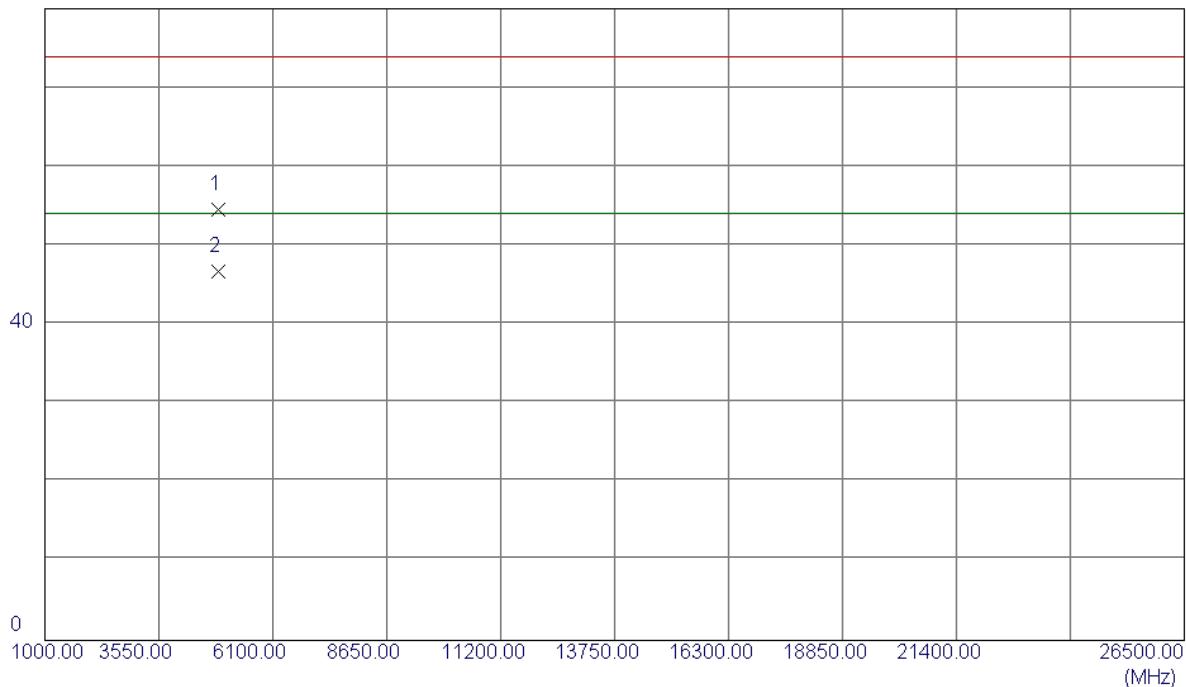
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2430.8000	58.28	32.93	91.21	54.00	37.21	AVG	No Limit
2	2435.0000	69.18	32.95	102.13	74.00	28.13	Peak	No Limit

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

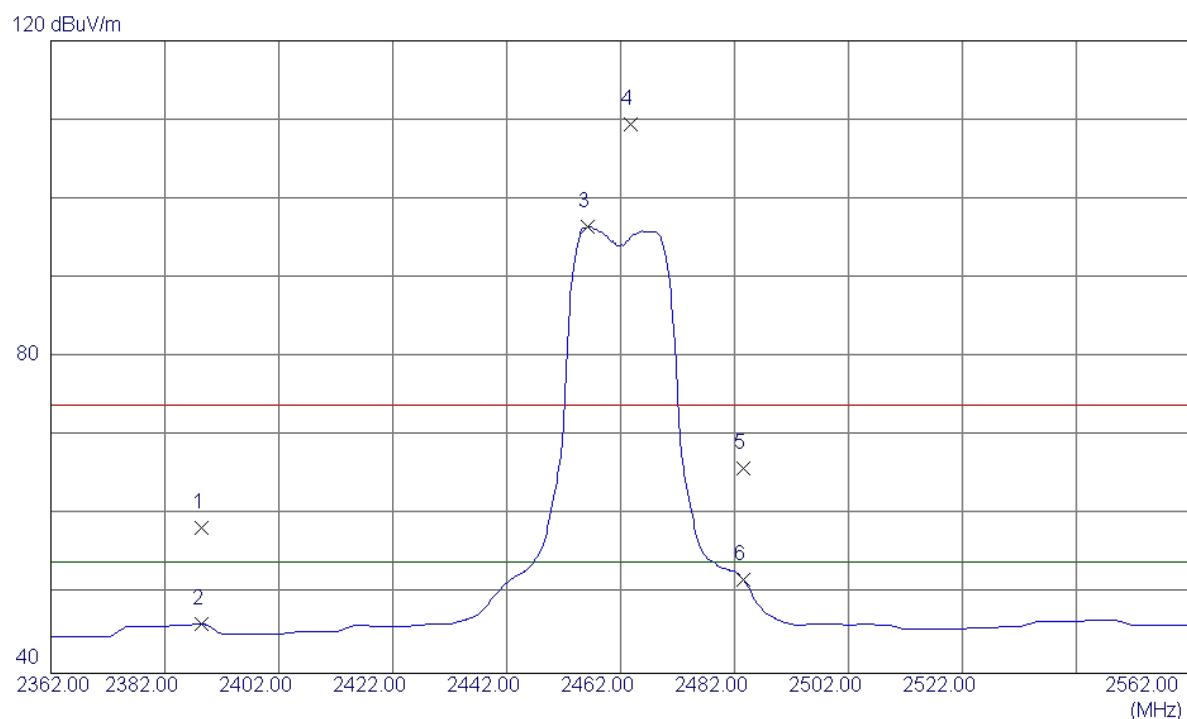
Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9350	49.66	4.89	54.55	74.00	-19.45	Peak	
2 *	4873.9900	41.85	4.89	46.74	54.00	-7.26	Avg	

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

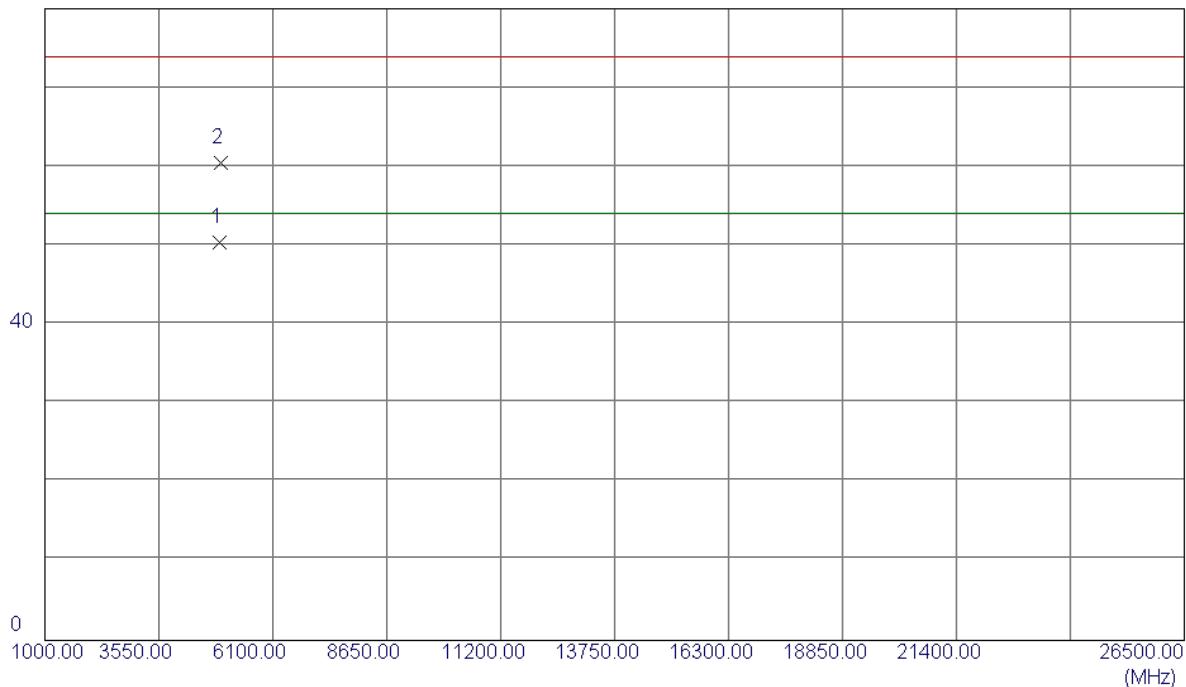
Vertical

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.4000	25.58	32.76	58.34	74.00	-15.66	Peak	
2	2388.4000	13.48	32.76	46.24	54.00	-7.76	Avg	
3 *	2456.2000	63.48	33.04	96.52	54.00	42.52	Avg	No Limit
4	2463.8000	76.39	33.07	109.46	74.00	35.46	Peak	No Limit
5	2483.5000	32.81	33.15	65.96	74.00	-8.04	Peak	
6	2483.5000	18.65	33.15	51.80	54.00	-2.20	Avg	

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

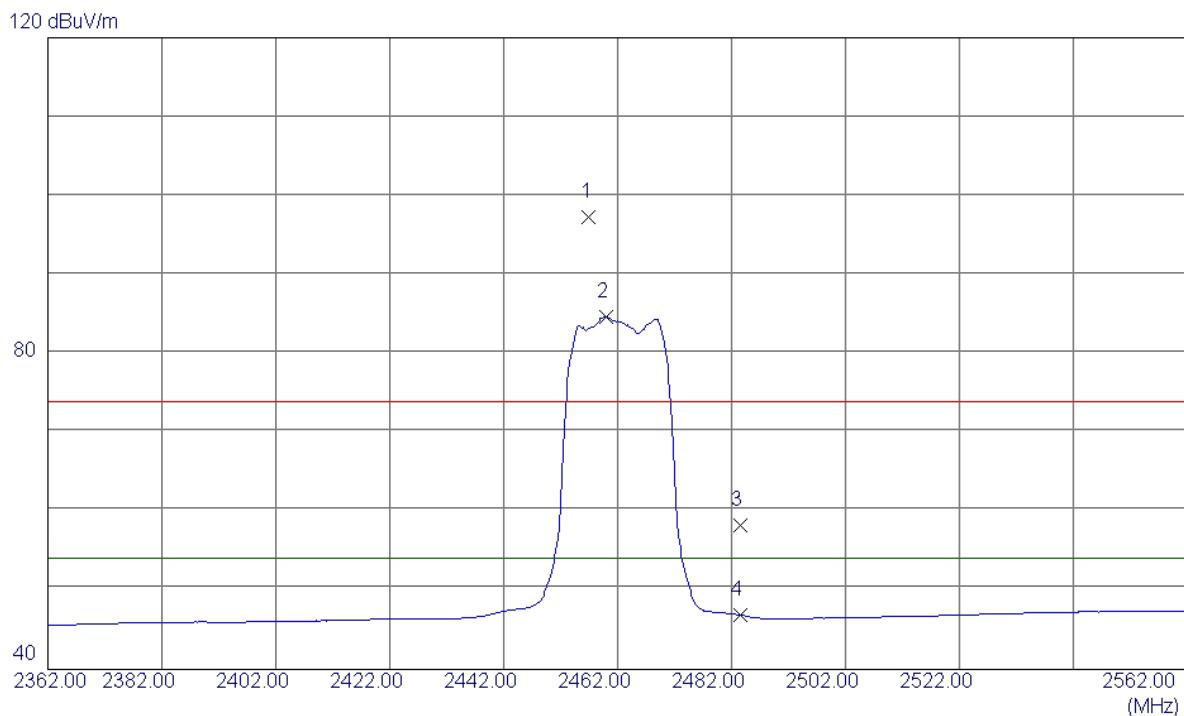
Vertical

80 dBuV/m



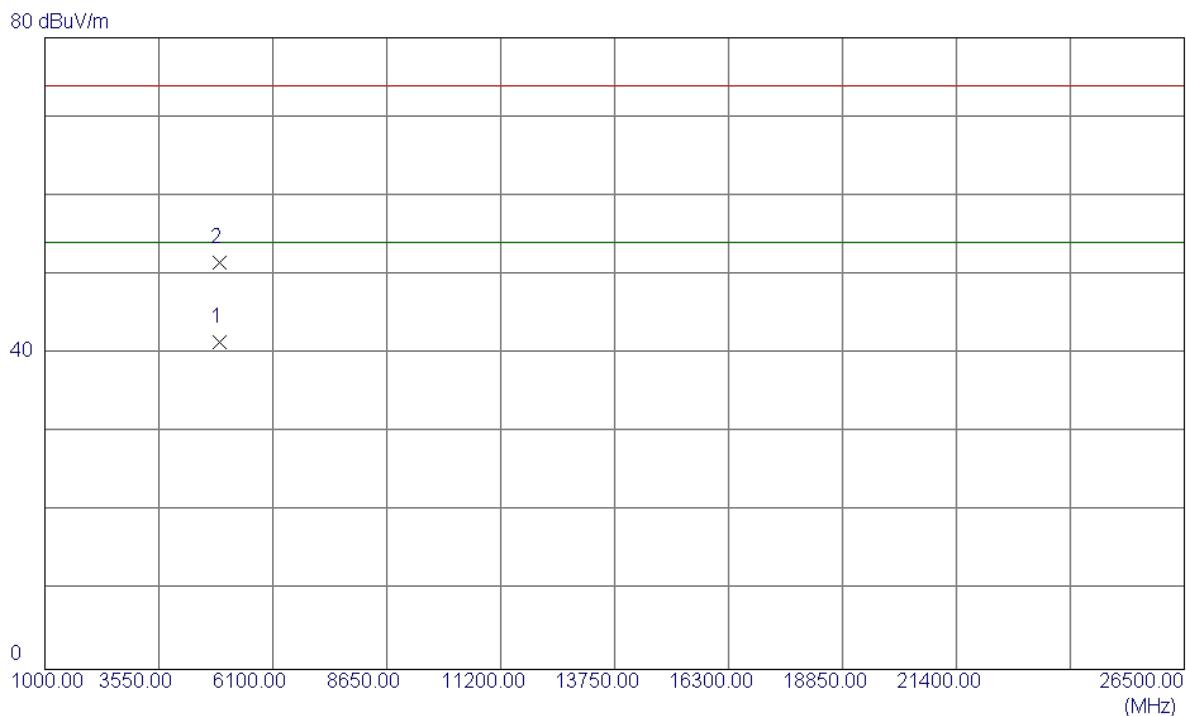
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9750	45.29	5.08	50.37	54.00	-3.63	AVG	
2	4925.4900	55.45	5.09	60.54	74.00	-13.46	Peak	

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

Horizontal

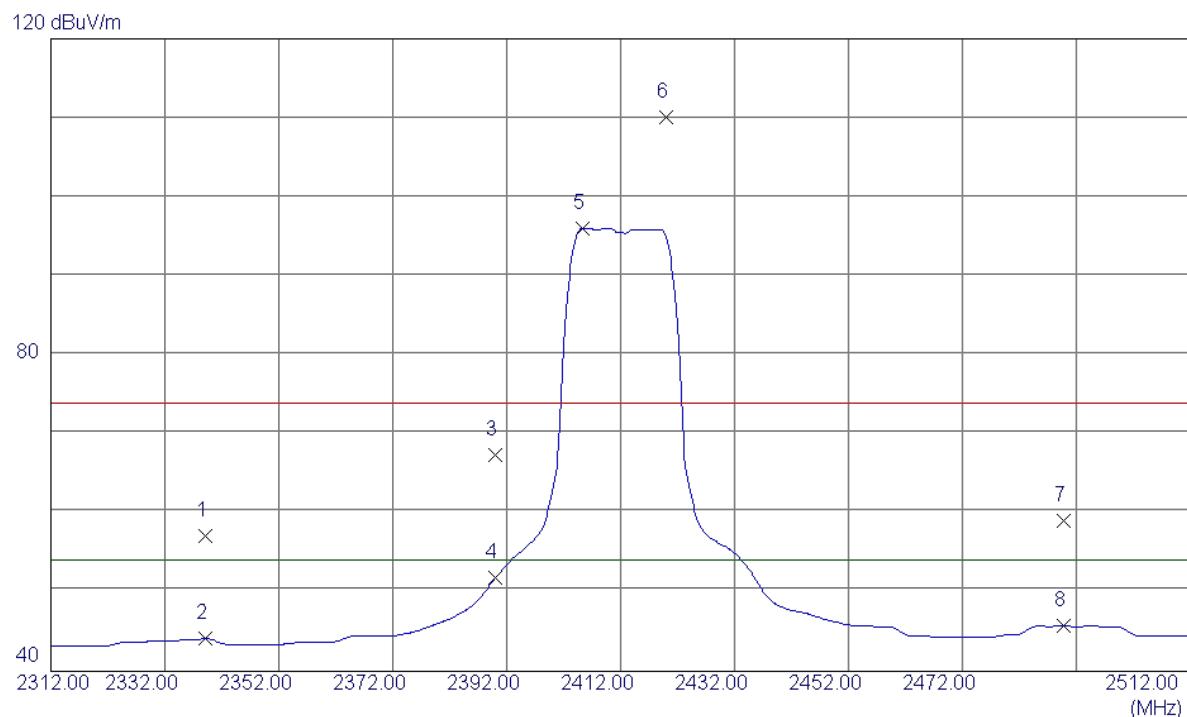
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2457.0000	64.25	33.04	97.29	74.00	23.29	Peak	No Limit
2 *	2460.0000	51.57	33.06	84.63	54.00	30.63	Avg	No Limit
3	2483.5000	25.12	33.15	58.27	74.00	-15.73	Peak	
4	2483.5000	13.72	33.15	46.87	54.00	-7.13	Avg	

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

Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0000	36.32	5.08	41.40	54.00	-12.60	AVG	
2	4924.0450	46.50	5.08	51.58	74.00	-22.42	Peak	

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

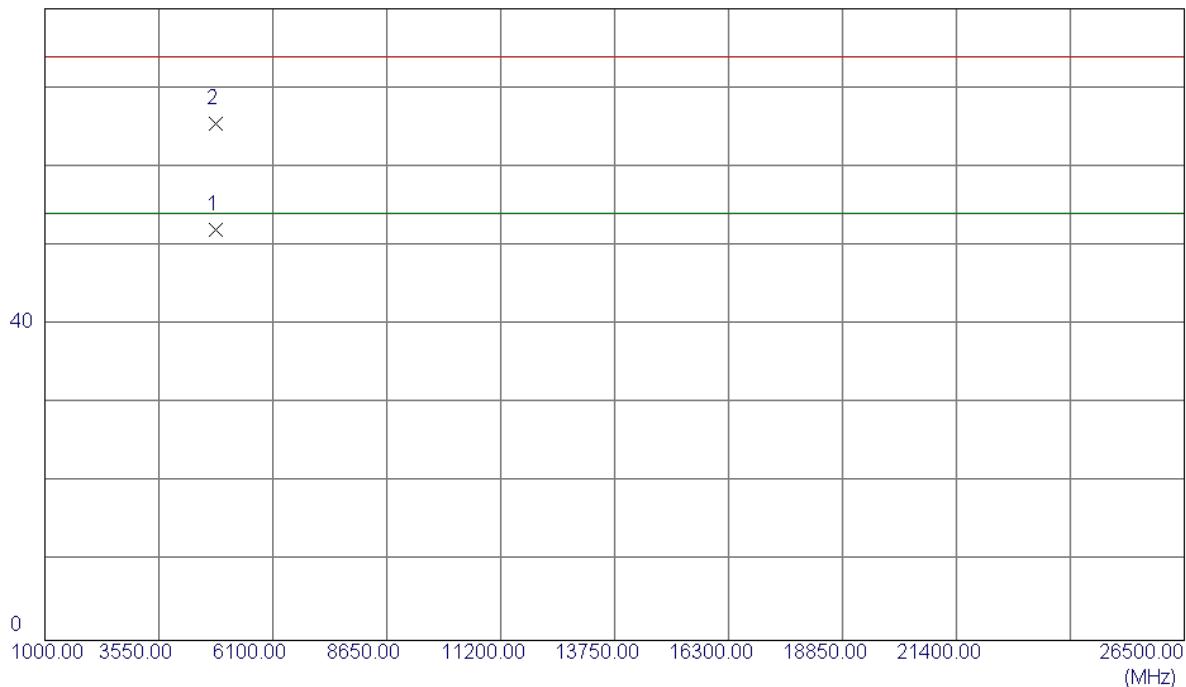
Vertical


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2339.2000	24.56	32.56	57.12	74.00	-16.88	Peak	
2	2339.2000	11.58	32.56	44.14	54.00	-9.86	Avg	
3	2390.0000	34.61	32.77	67.38	74.00	-6.62	Peak	
4	2390.0000	19.01	32.77	51.78	54.00	-2.22	Avg	
5 *	2405.4000	63.24	32.83	96.07	54.00	42.07	Avg	No Limit
6	2420.0000	77.12	32.89	110.01	74.00	36.01	Peak	No Limit
7	2489.8000	25.84	33.18	59.02	74.00	-14.98	Peak	
8	2489.8000	12.58	33.18	45.76	54.00	-8.24	Avg	

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

Vertical

80 dBuV/m



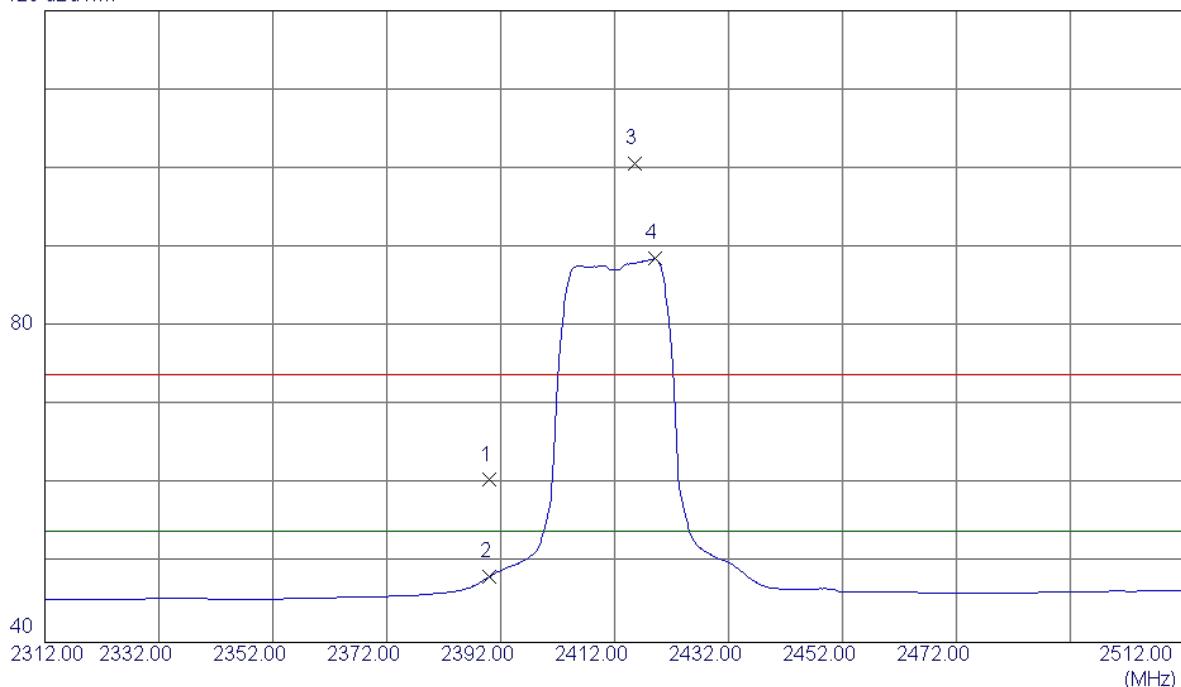
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.8800	47.24	4.69	51.93	54.00	-2.07	AVG	
2	4825.3200	60.80	4.70	65.50	74.00	-8.50	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

Horizontal

120 dBuV/m

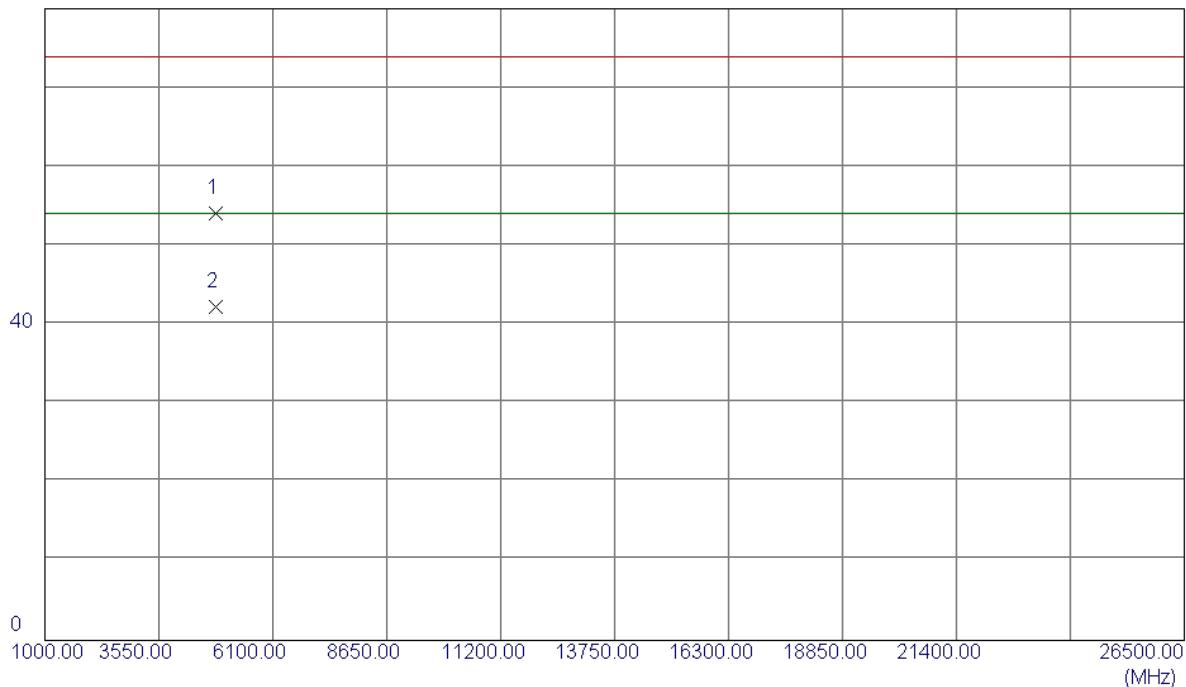


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	27.79	32.77	60.56	74.00	-13.44	Peak	
2	2390.0000	15.54	32.77	48.31	54.00	-5.69	Avg	
3	2415.6000	67.80	32.87	100.67	74.00	26.67	Peak	No Limit
4 *	2419.2000	55.72	32.89	88.61	54.00	34.61	Avg	No Limit

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

Horizontal

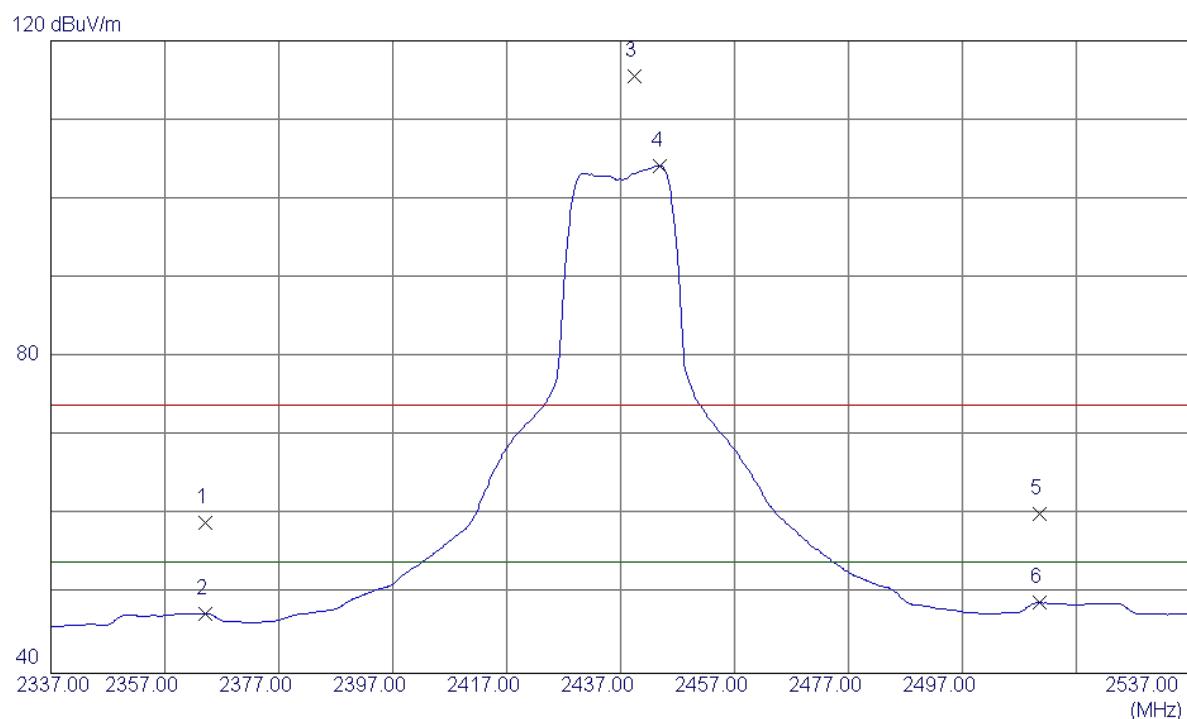
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.7799	49.43	4.69	54.12	74.00	-19.88	Peak	
2 *	4823.9800	37.56	4.69	42.25	54.00	-11.75	AVG	

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

Vertical

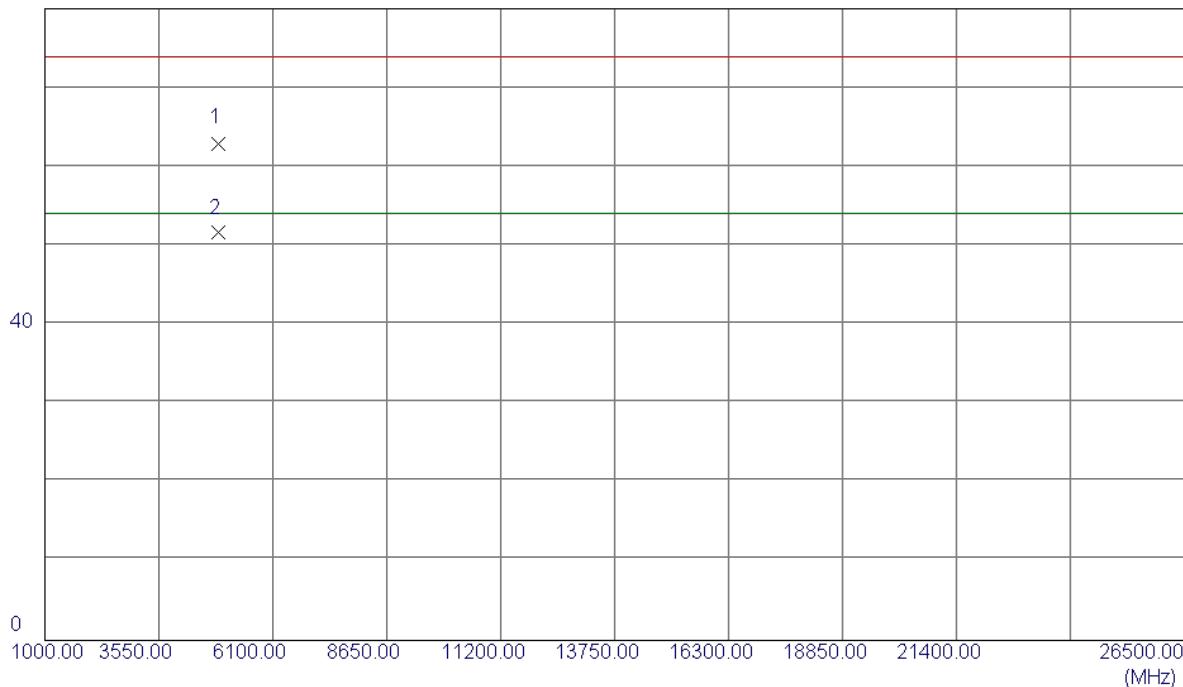


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2364.2000	26.44	32.66	59.10	74.00	-14.90	Peak	
2	2364.2000	14.93	32.66	47.59	54.00	-6.41	Avg	
3	2439.4000	82.50	32.97	115.47	74.00	41.47	Peak	No Limit
4 *	2444.0000	71.24	32.99	104.23	54.00	50.23	Avg	No Limit
5	2510.6000	26.81	33.28	60.09	74.00	-13.91	Peak	
6	2510.6000	15.63	33.28	48.91	54.00	-5.09	Avg	

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

Vertical

80 dBuV/m

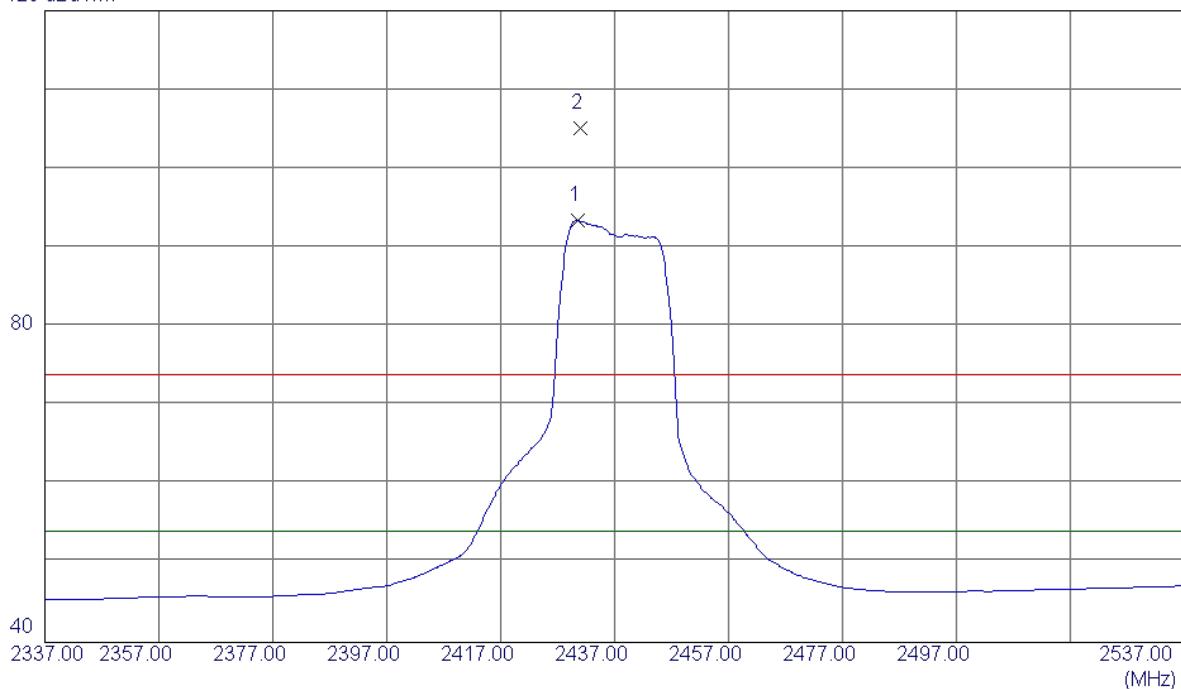


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.5600	58.07	4.89	62.96	74.00	-11.04	Peak	
2 *	4873.9400	46.71	4.89	51.60	54.00	-2.40	AVG	

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

Horizontal

120 dBuV/m

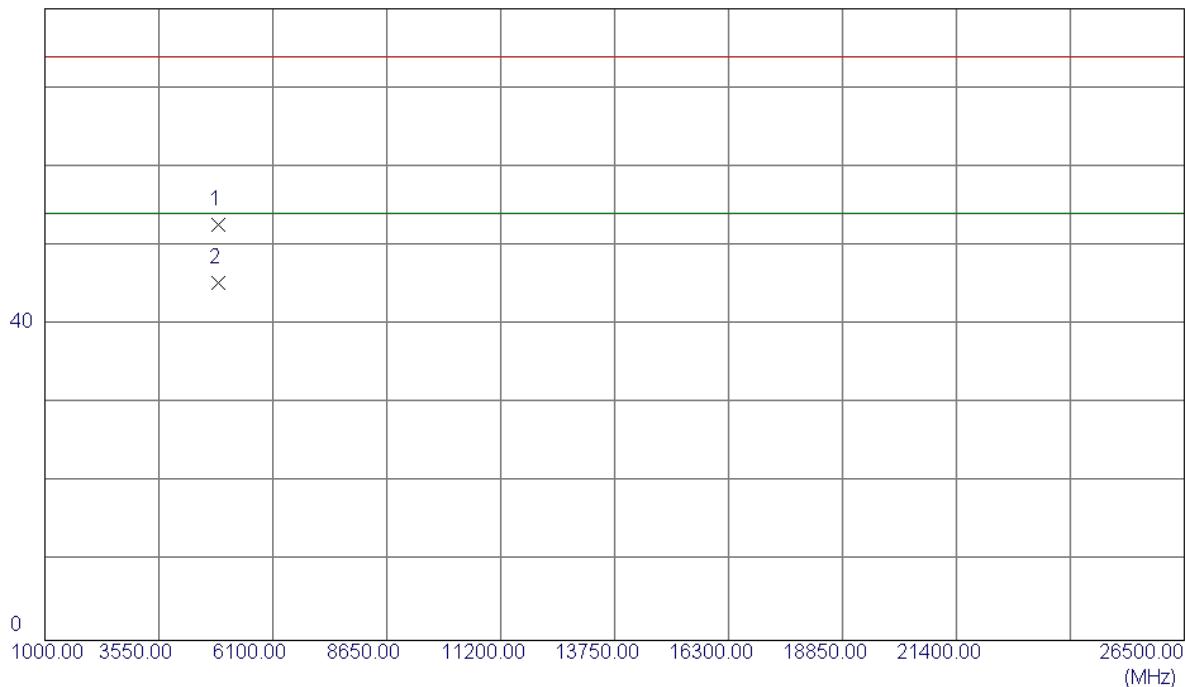


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2430.6000	60.55	32.93	93.48	54.00	39.48	AVG	No Limit
2	2431.0000	72.19	32.94	105.13	74.00	31.13	Peak	No Limit

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

Horizontal

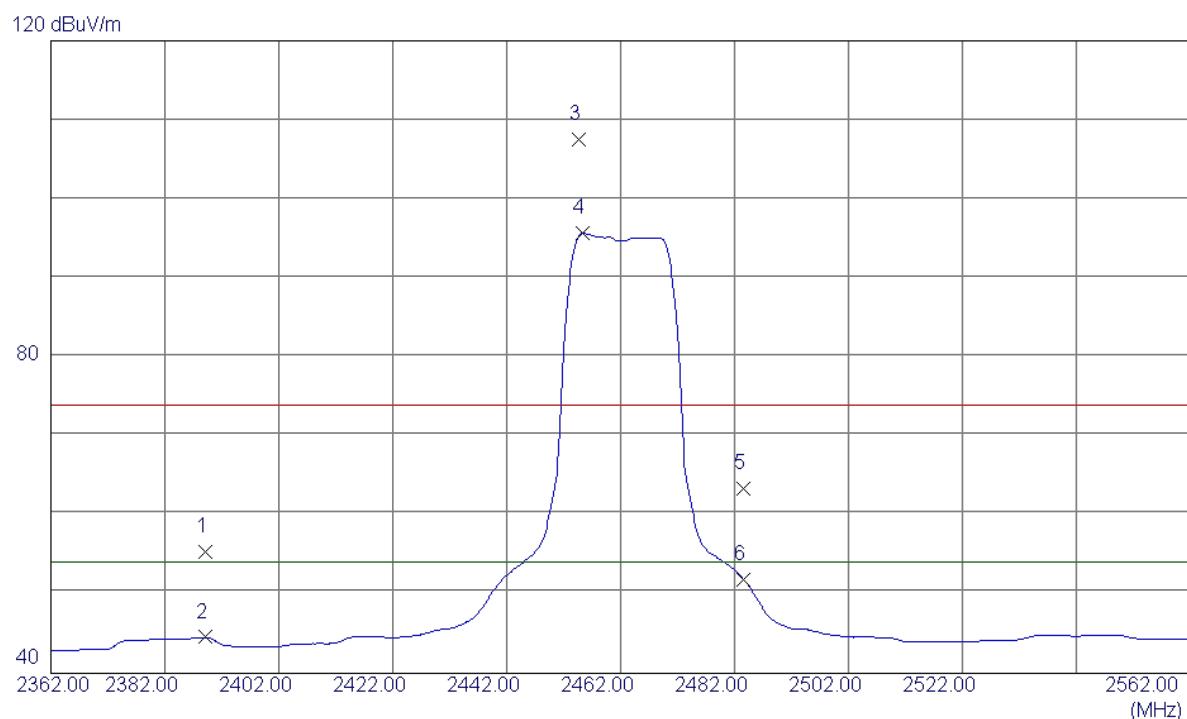
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9600	47.75	4.89	52.64	74.00	-21.36	Peak	
2 *	4874.0000	40.38	4.89	45.27	54.00	-8.73	Avg	

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

Vertical

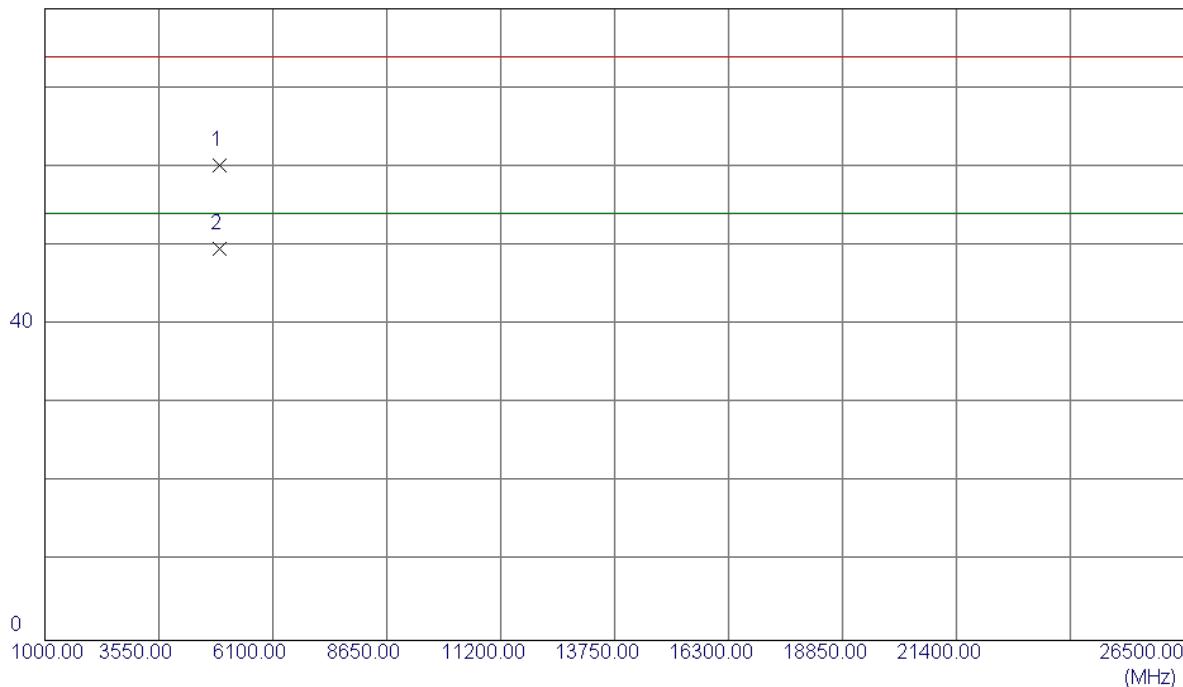


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.2000	22.59	32.76	55.35	74.00	-18.65	Peak	
2	2389.2000	11.80	32.76	44.56	54.00	-9.44	Avg	
3	2454.6000	74.51	33.03	107.54	74.00	33.54	Peak	No Limit
4 *	2455.4000	62.60	33.04	95.64	54.00	41.64	Avg	No Limit
5	2483.5000	30.28	33.15	63.43	74.00	-10.57	Peak	
6	2483.5000	18.76	33.15	51.91	54.00	-2.09	Avg	

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

Vertical

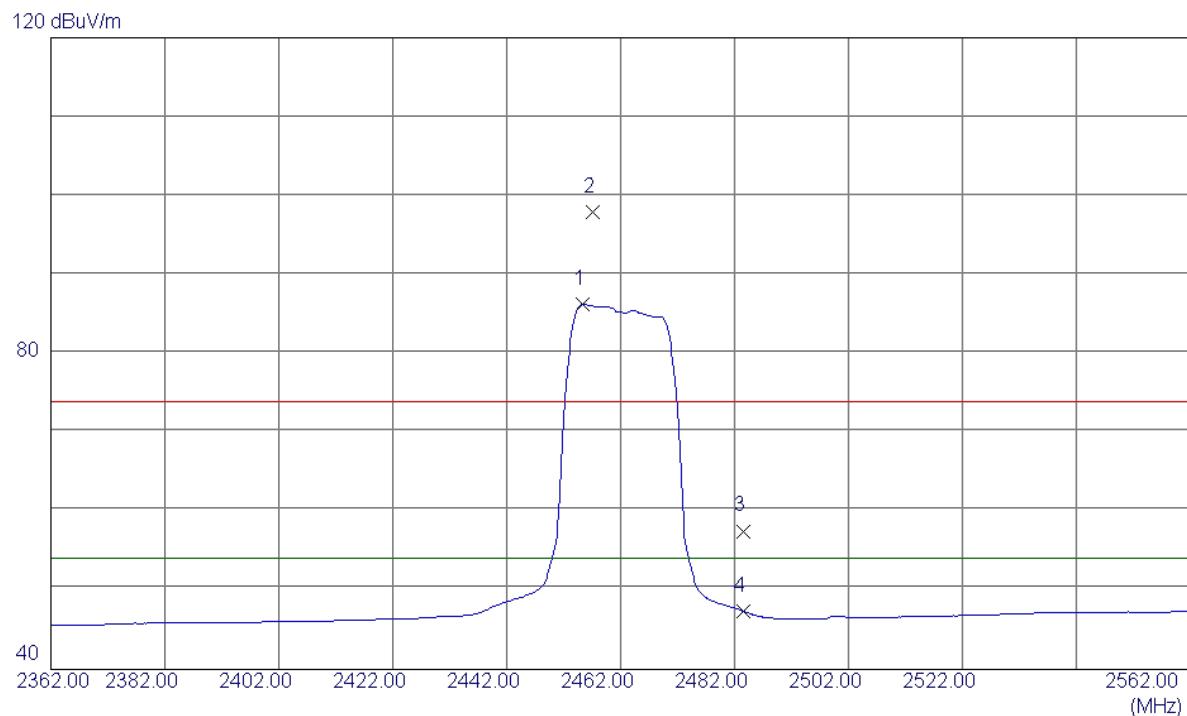
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.7599	55.15	5.08	60.23	74.00	-13.77	Peak	
2 *	4924.0000	44.54	5.08	49.62	54.00	-4.38	AVG	

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

Horizontal

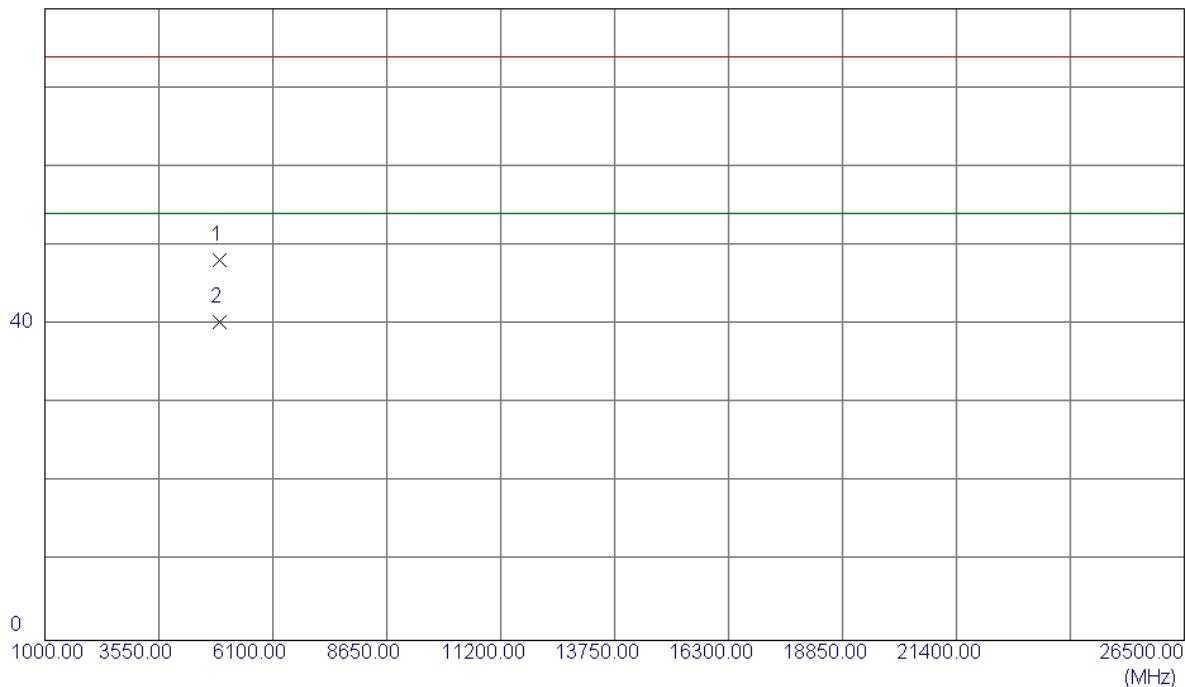


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.4000	53.16	33.04	86.20	54.00	32.20	AVG	No Limit
2	2457.2000	64.84	33.04	97.88	74.00	23.88	Peak	No Limit
3	2483.5000	24.37	33.15	57.52	74.00	-16.48	Peak	
4	2483.5000	14.22	33.15	47.37	54.00	-6.63	AVG	

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

Horizontal

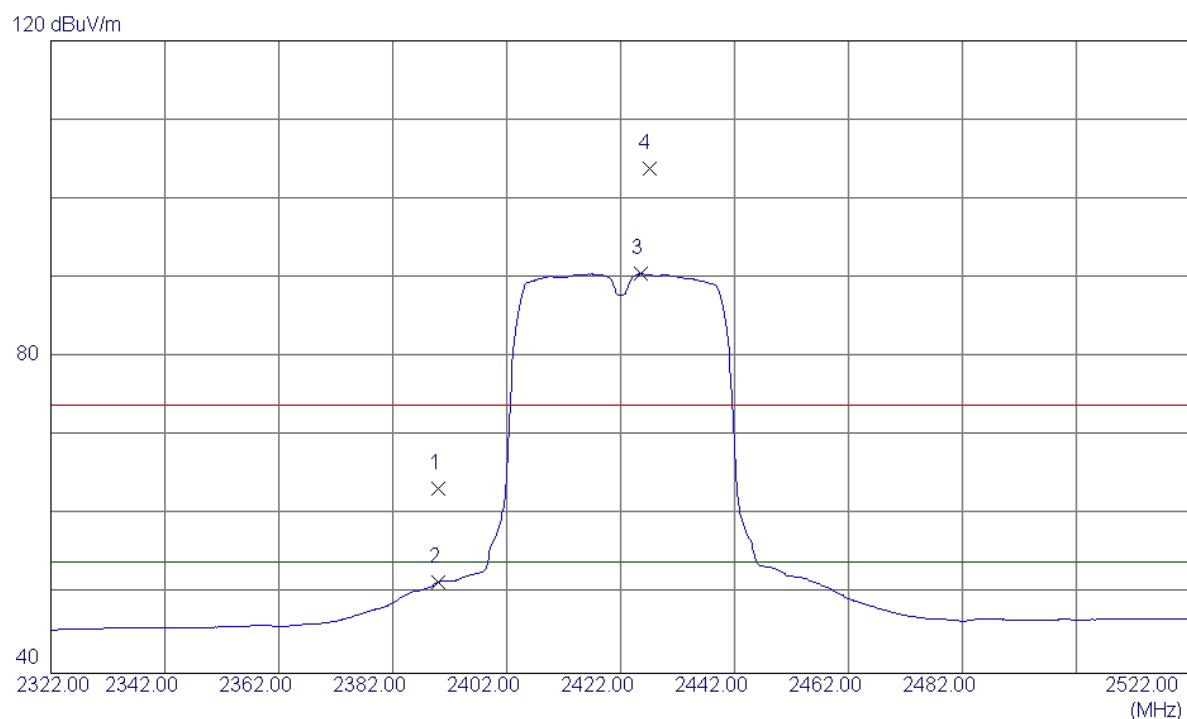
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9600	43.10	5.08	48.18	74.00	-25.82	Peak	
2 *	4924.0200	35.28	5.08	40.36	54.00	-13.64	AVG	

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

Vertical



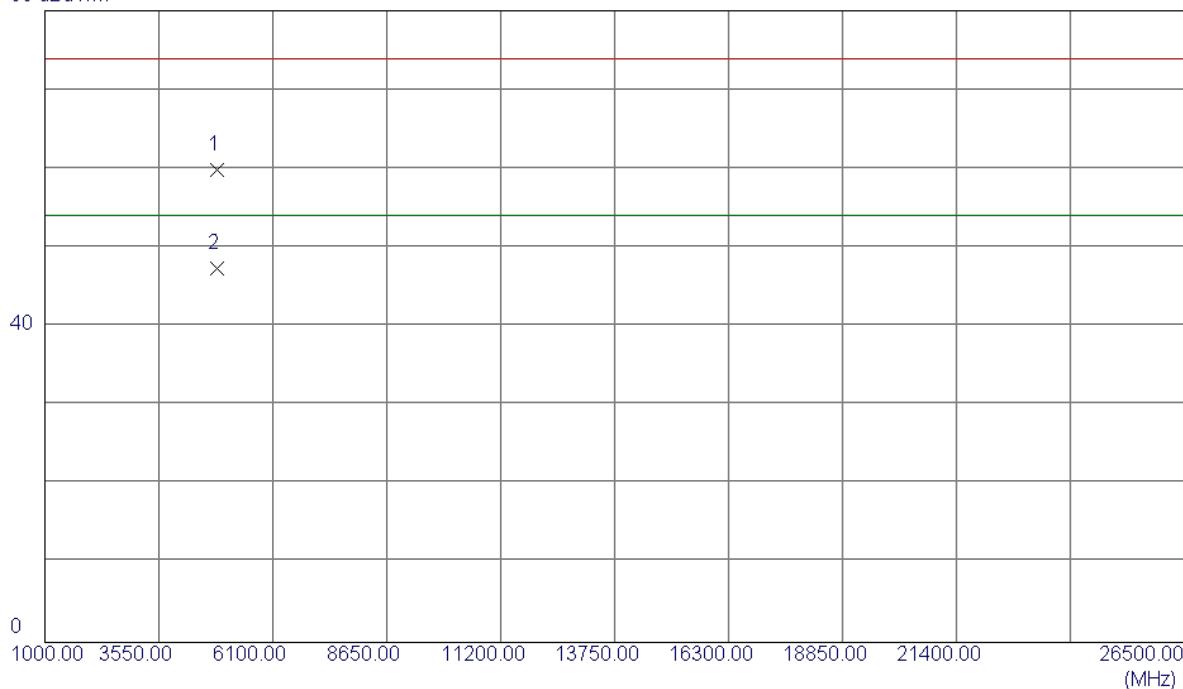
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.60	32.77	63.37	74.00	-10.63	Peak	
2	2390.0000	18.75	32.77	51.52	54.00	-2.48	Avg	
3 *	2425.6000	57.59	32.91	90.50	54.00	36.50	Avg	No Limit
4	2427.0000	70.87	32.92	103.79	74.00	29.79	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

Vertical

80 dBuV/m



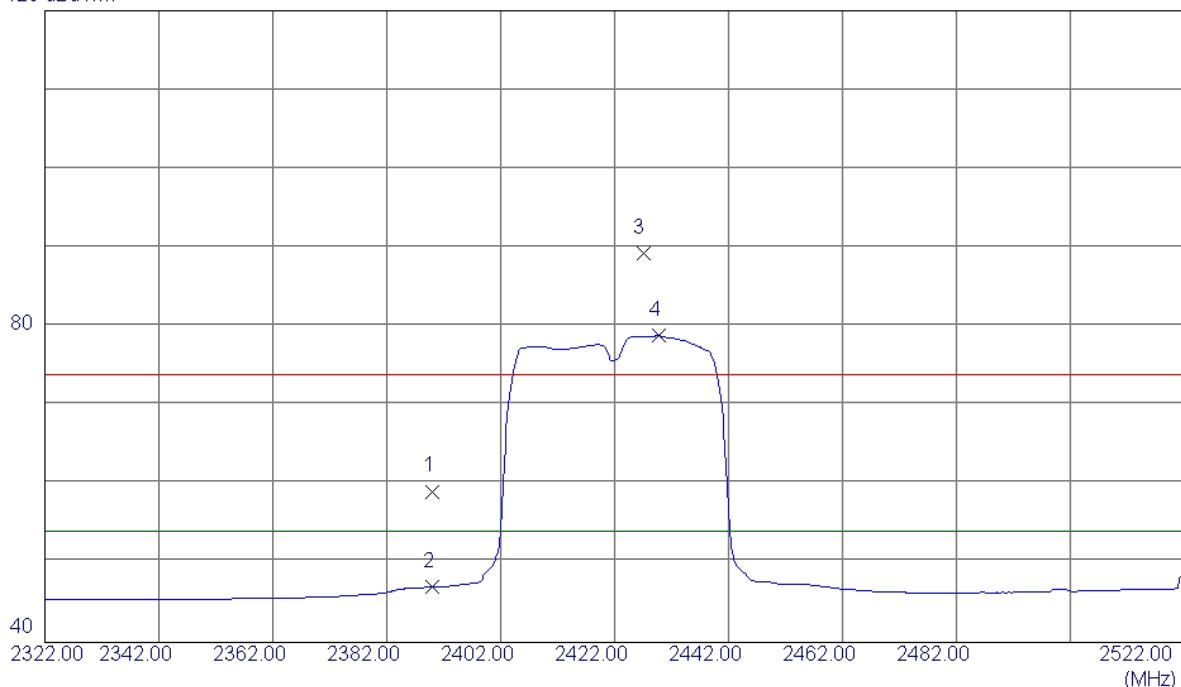
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4840.5400	55.06	4.76	59.82	74.00	-14.18	Peak	
2 *	4844.0000	42.63	4.77	47.40	54.00	-6.60	Avg	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

Horizontal

120 dBuV/m

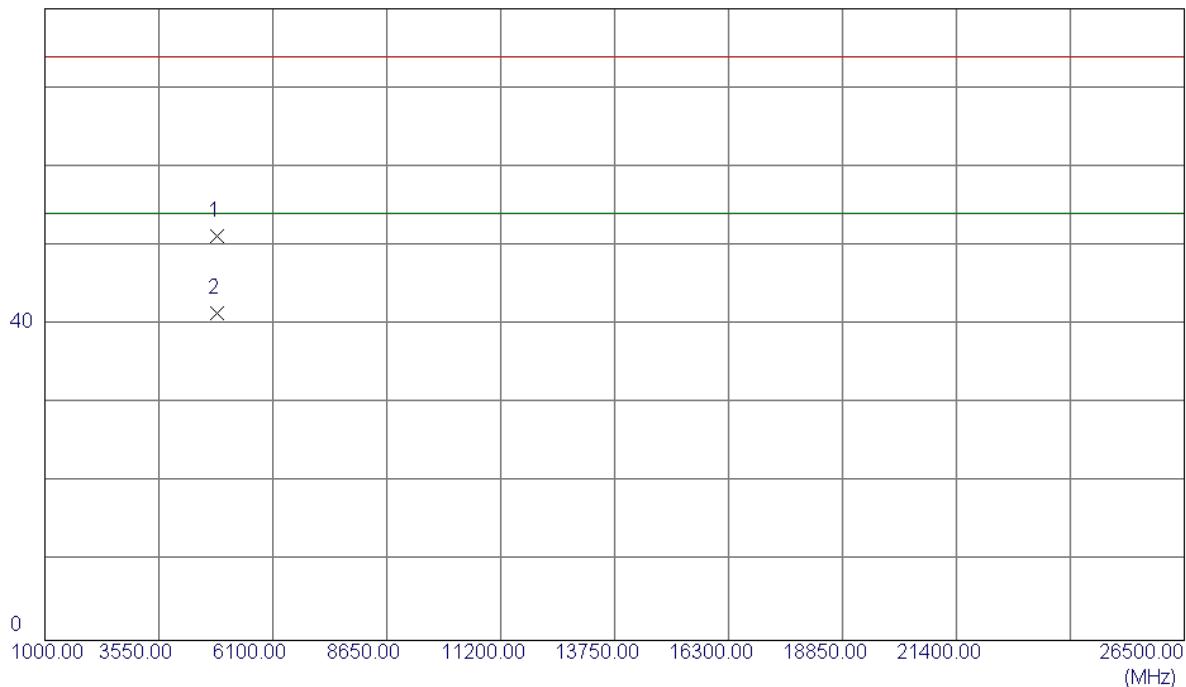


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.35	32.77	59.12	74.00	-14.88	Peak	
2	2390.0000	14.34	32.77	47.11	54.00	-6.89	Avg	
3	2427.0000	56.35	32.92	89.27	74.00	15.27	Peak	No Limit
4 *	2429.8000	45.91	32.93	78.84	54.00	24.84	Avg	No Limit

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

Horizontal

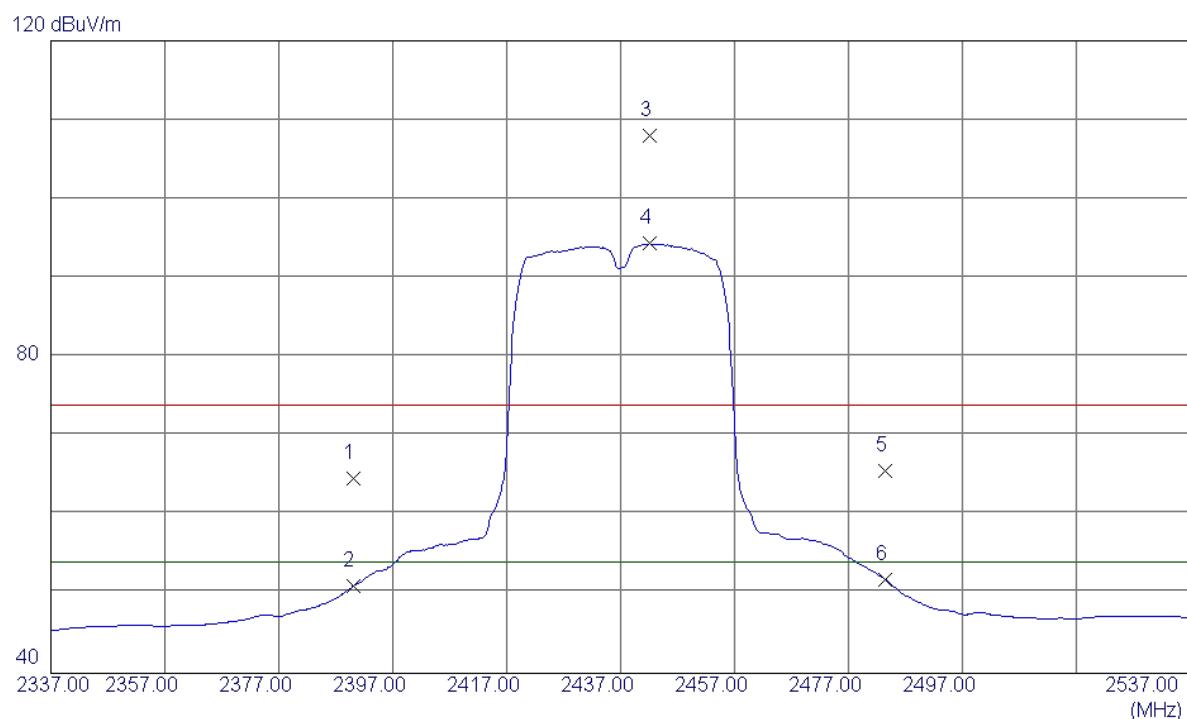
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4843.9400	46.44	4.77	51.21	74.00	-22.79	Peak	
2 *	4843.9800	36.74	4.77	41.51	54.00	-12.49	AVG	

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

Vertical

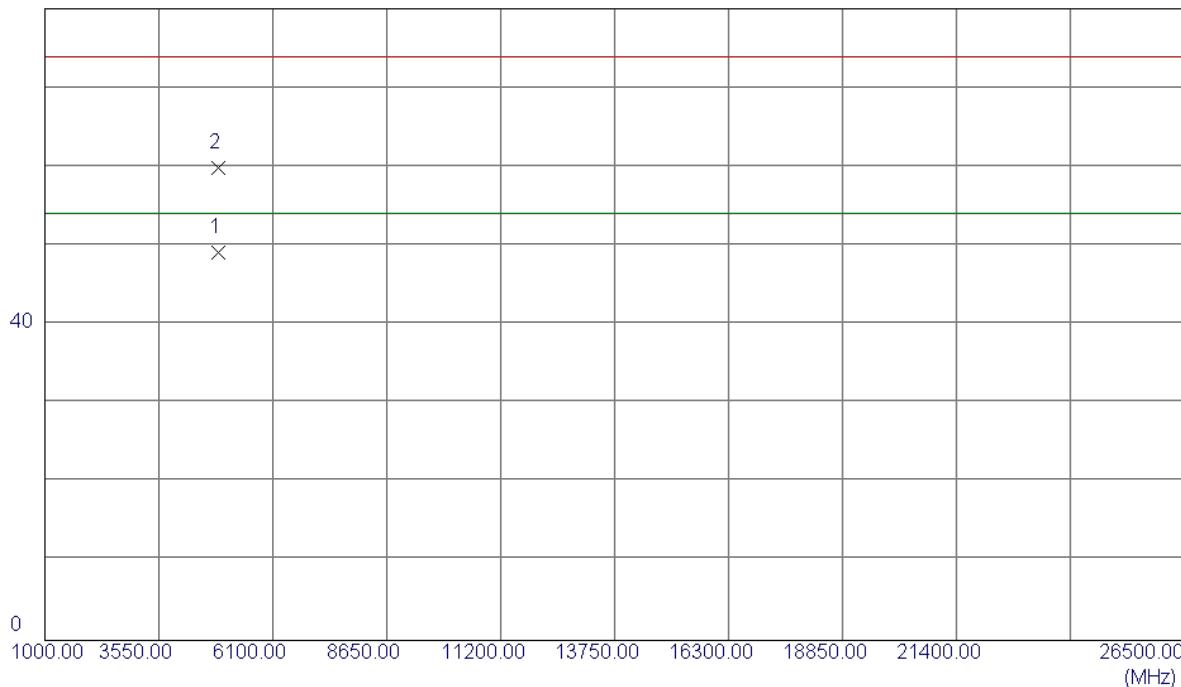


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	31.88	32.77	64.65	74.00	-9.35	Peak	
2	2390.0000	18.23	32.77	51.00	54.00	-3.00	Avg	
3	2442.2000	75.00	32.98	107.98	74.00	33.98	Peak	No Limit
4 *	2442.2000	61.35	32.98	94.33	54.00	40.33	Avg	No Limit
5	2483.5000	32.42	33.15	65.57	74.00	-8.43	Peak	
6	2483.5000	18.68	33.15	51.83	54.00	-2.17	Avg	

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

Vertical

80 dBuV/m



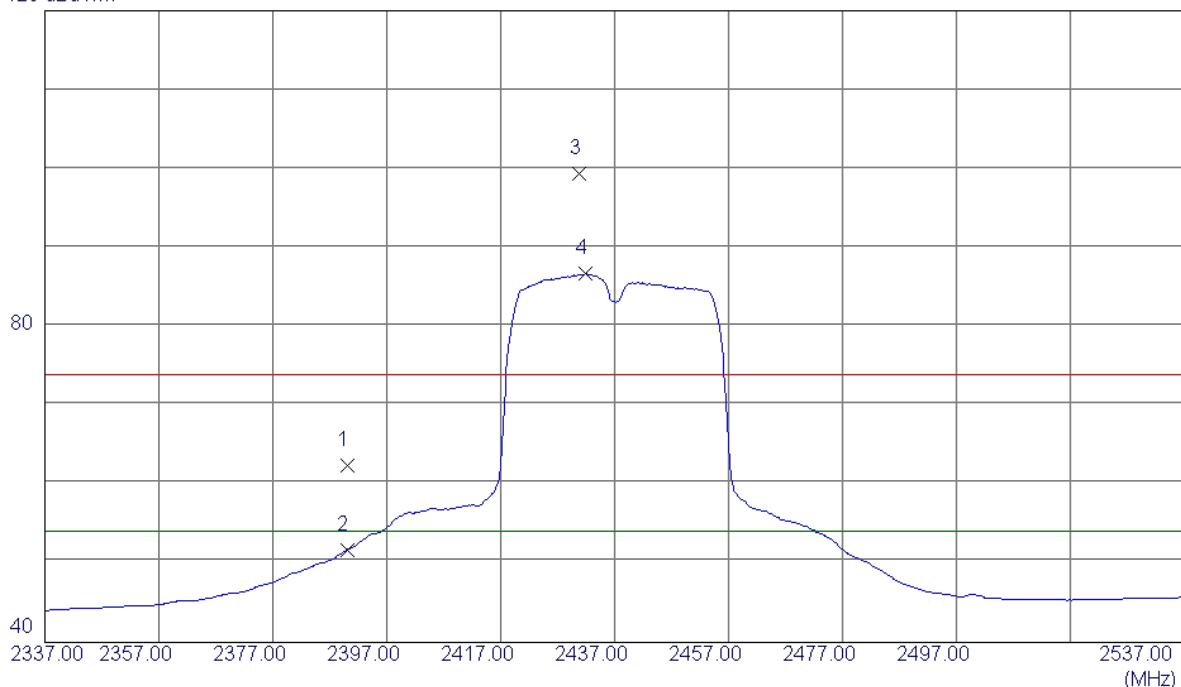
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9800	44.21	4.89	49.10	54.00	-4.90	AVG	
2	4874.2599	54.99	4.89	59.88	74.00	-14.12	Peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

Horizontal

120 dBuV/m

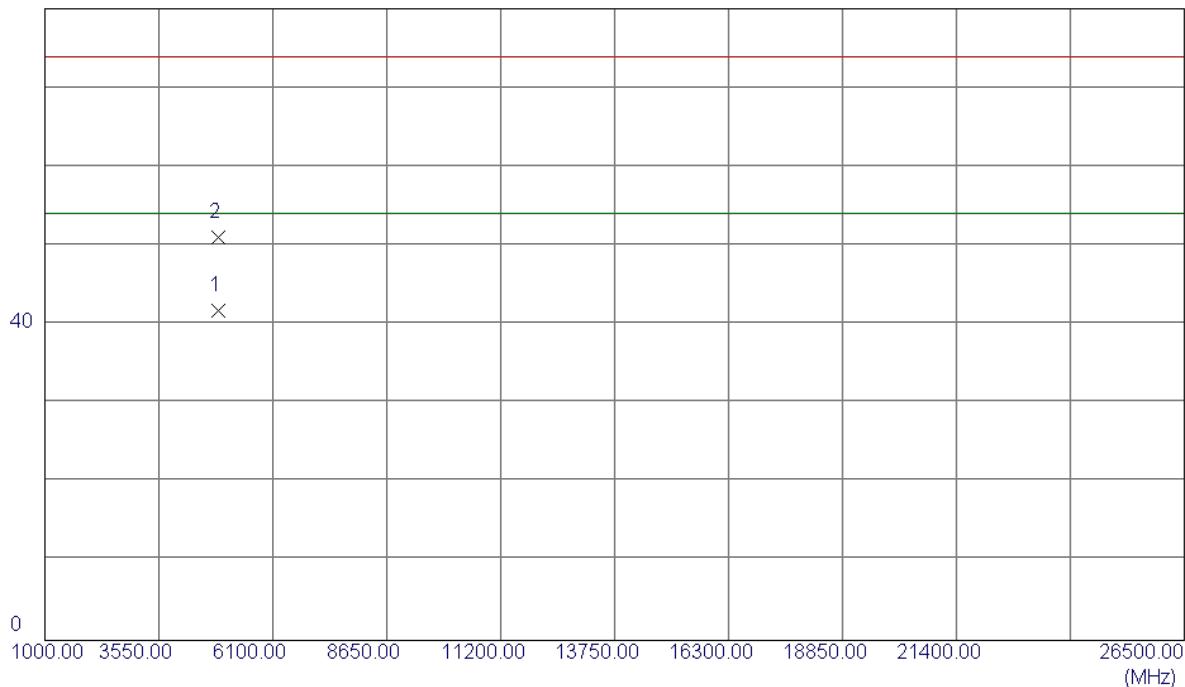


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.65	32.77	62.42	74.00	-11.58	Peak	
2	2390.0000	18.98	32.77	51.75	54.00	-2.25	Avg	
3	2430.8000	66.38	32.93	99.31	74.00	25.31	Peak	No Limit
4 *	2431.8000	53.72	32.94	86.66	54.00	32.66	Avg	No Limit

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

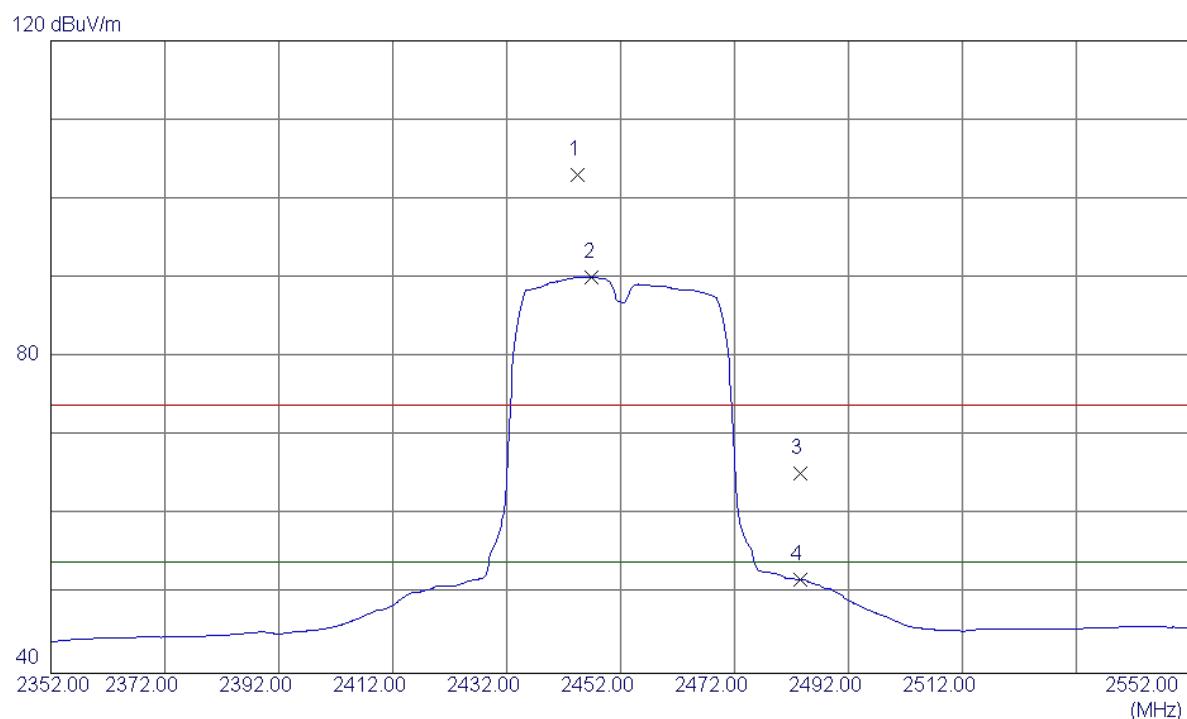
Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874. 0000	36. 91	4. 89	41. 80	54. 00	-12. 20	AVG	
2	4874. 1400	46. 18	4. 89	51. 07	74. 00	-22. 93	Peak	

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

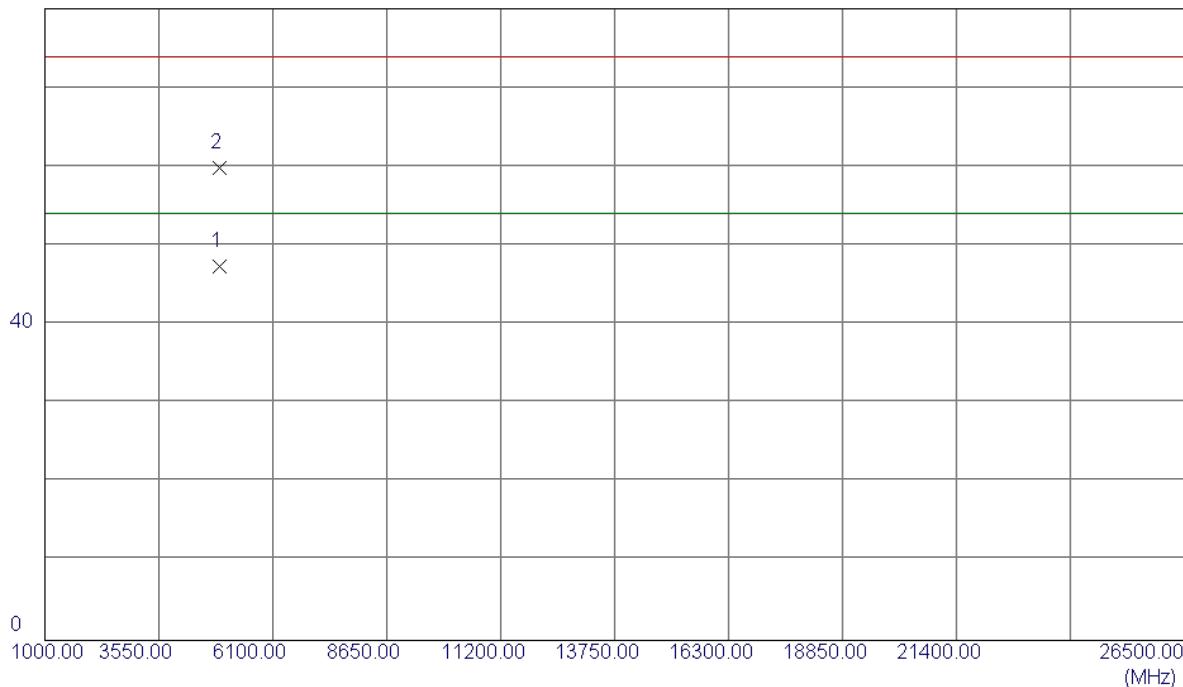
Vertical

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2444.4000	70.10	32.99	103.09	74.00	29.09	Peak	No Limit
2 *	2447.0000	57.10	33.00	90.10	54.00	36.10	Avg	No Limit
3	2483.5000	32.14	33.15	65.29	74.00	-8.71	Peak	
4	2483.5000	18.74	33.15	51.89	54.00	-2.11	Avg	

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

Vertical

80 dBuV/m

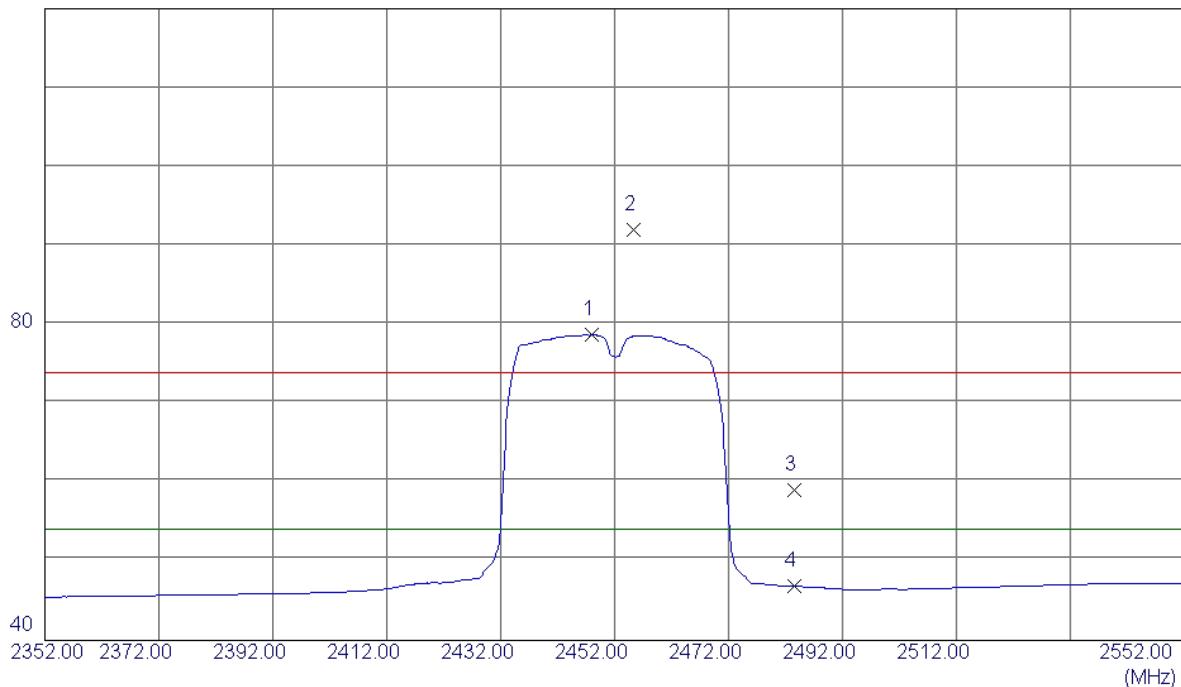


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4904.0000	42.32	5.01	47.33	54.00	-6.67	AVG	
2	4904.1800	54.87	5.01	59.88	74.00	-14.12	Peak	

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

Horizontal

120 dBuV/m

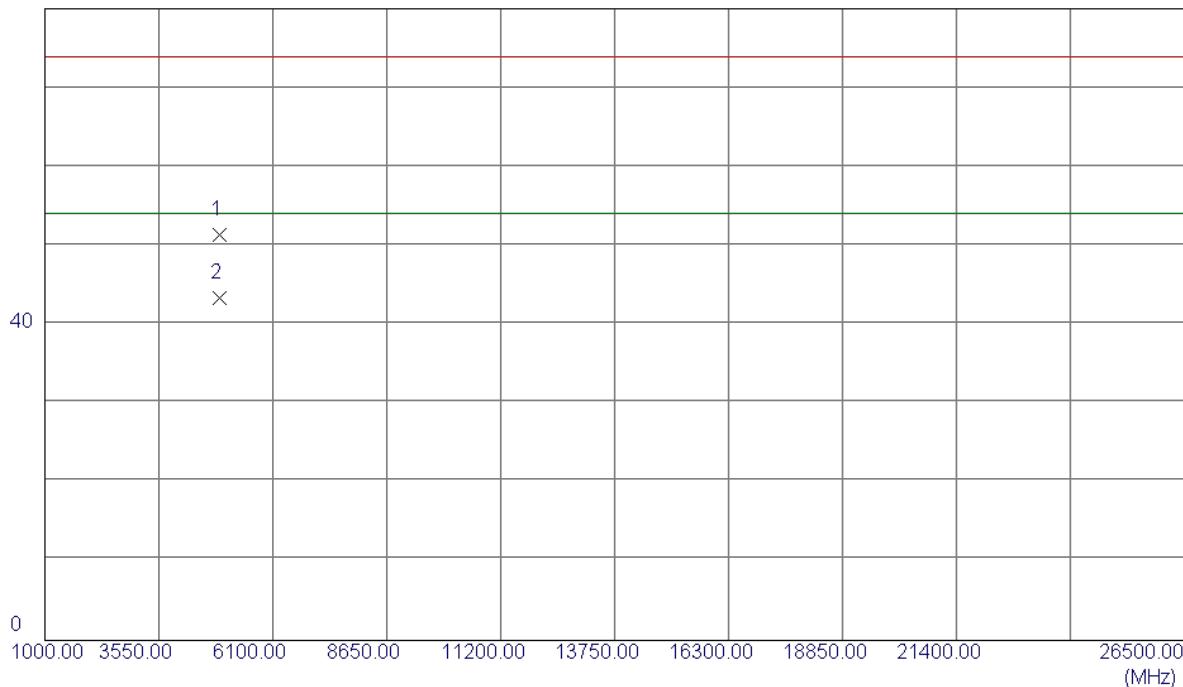


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2448.0000	45.67	33.01	78.68	54.00	24.68	AVG	No Limit
2	2455.4000	58.95	33.04	91.99	74.00	17.99	Peak	No Limit
3	2483.5000	25.93	33.15	59.08	74.00	-14.92	Peak	
4	2483.5000	13.72	33.15	46.87	54.00	-7.13	AVG	

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

Horizontal

80 dBuV/m

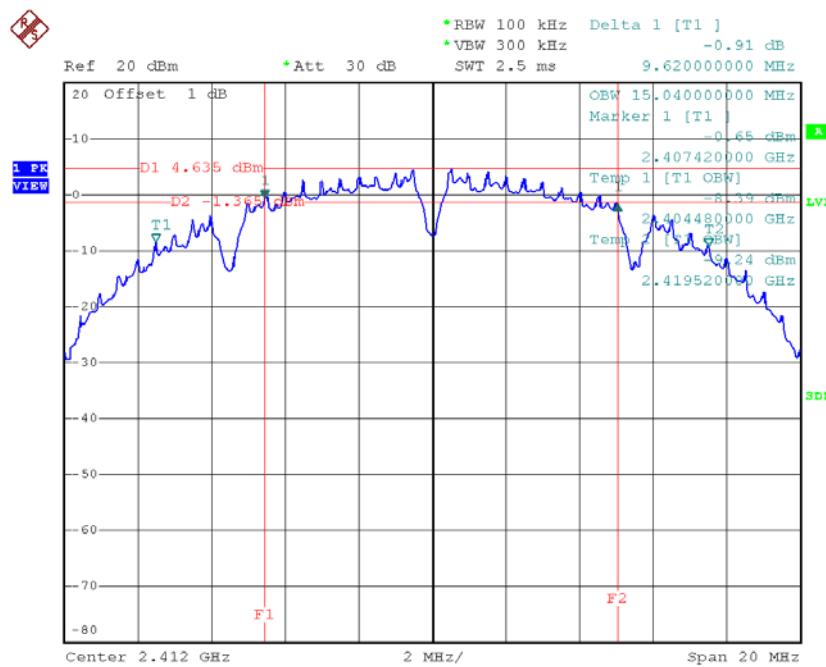


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.9400	46.34	5.01	51.35	74.00	-22.65	Peak	
2 *	4903.9800	38.33	5.01	43.34	54.00	-10.66	AVG	

ATTACHMENT E - BANDWIDTH

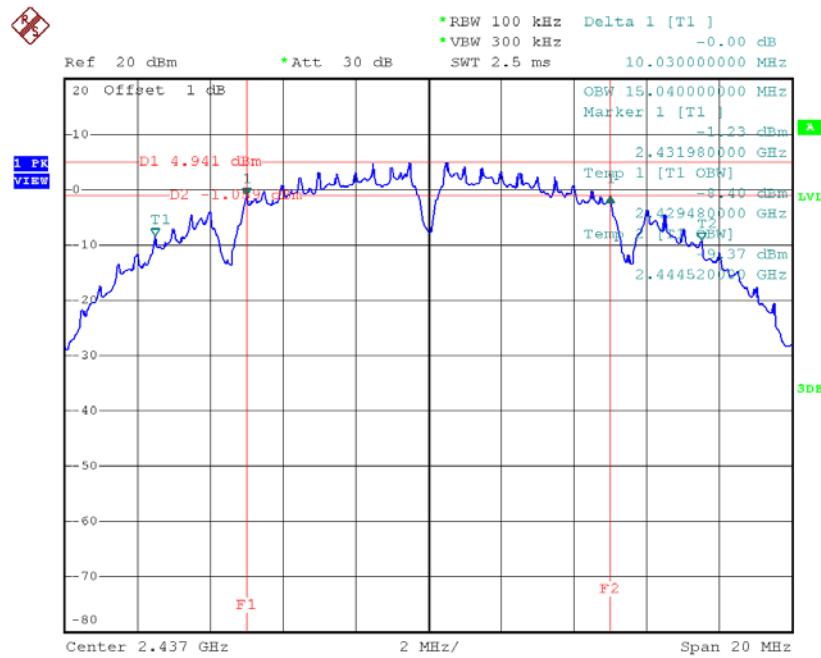
Test Mode : TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	9.62	15.04	500	Complies
2437	10.03	15.04	500	Complies
2462	9.14	15.00	500	Complies

TX CH01


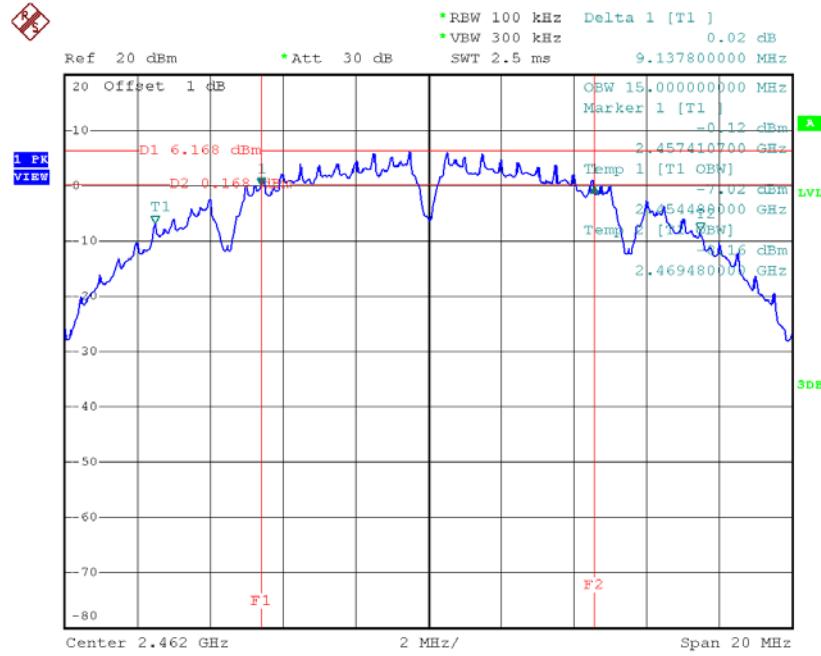
Date: 5.JUL.2016 10:30:17

TX CH06



Date: 5.JUL.2016 10:33:05

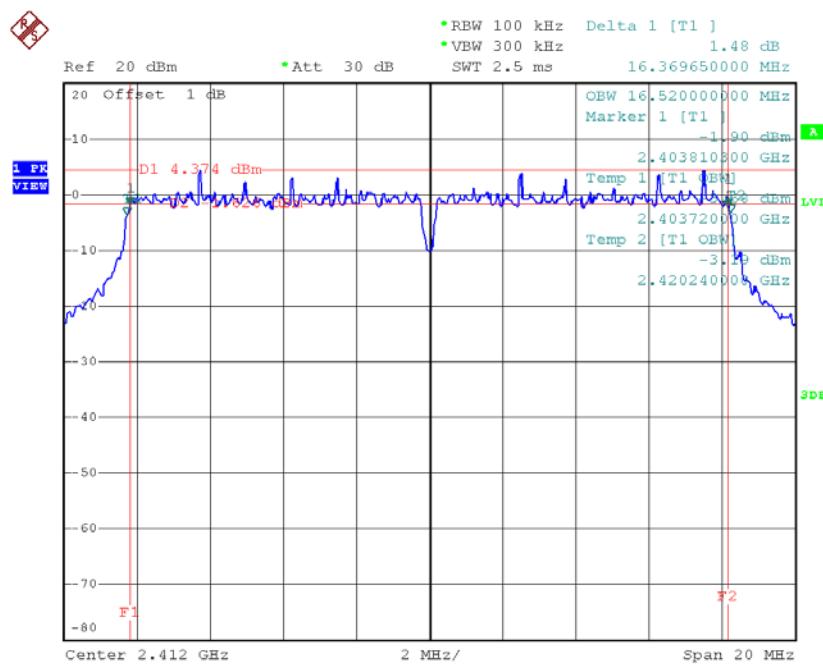
TX CH11



Date: 5.JUL.2016 10:34:39

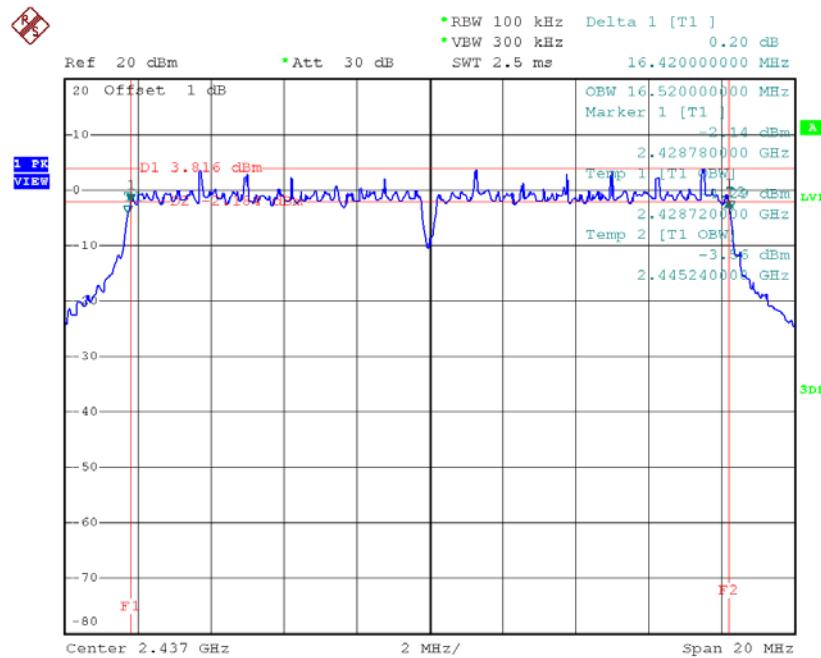
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.37	16.52	500	Complies
2437	16.42	16.52	500	Complies
2462	16.42	16.52	500	Complies

TX CH01


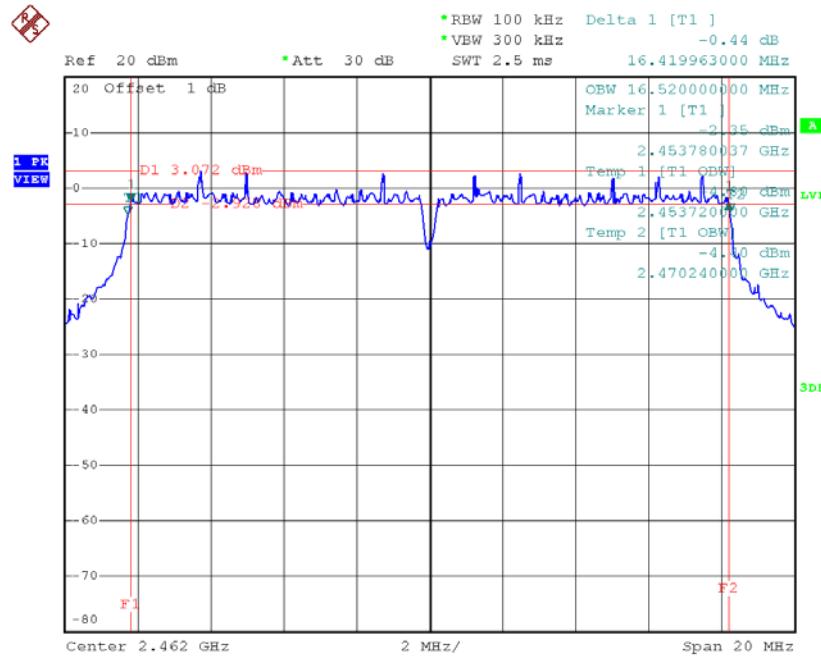
Date: 5.JUL.2016 10:50:36

TX CH06



Date: 5.JUL.2016 10:53:42

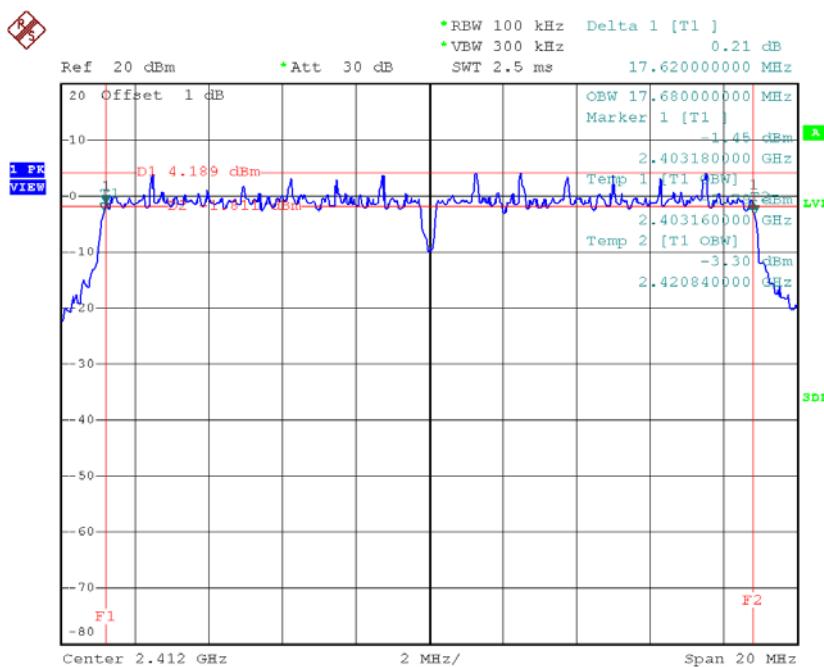
TX CH11



Date: 5.JUL.2016 10:54:53

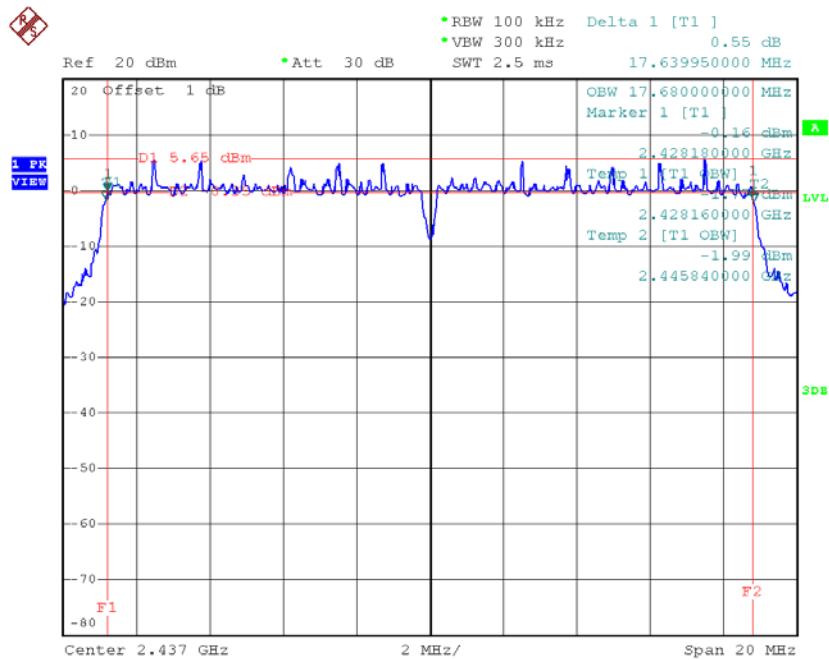
Test Mode : TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.68	500	Complies
2437	17.64	17.68	500	Complies
2462	17.62	17.68	500	Complies

TX CH01


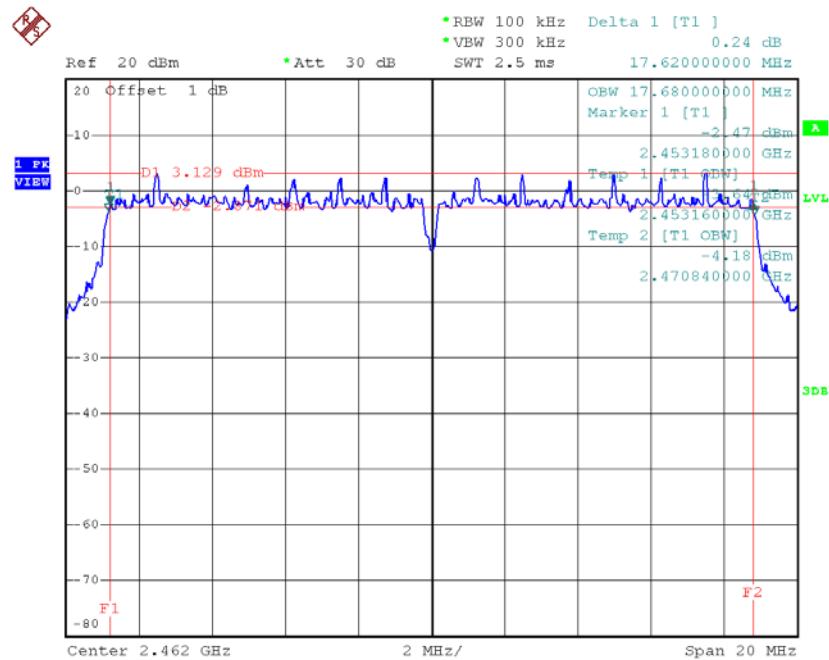
Date: 5.JUL.2016 10:56:49

TX CH06



Date: 5.JUL.2016 10:59:03

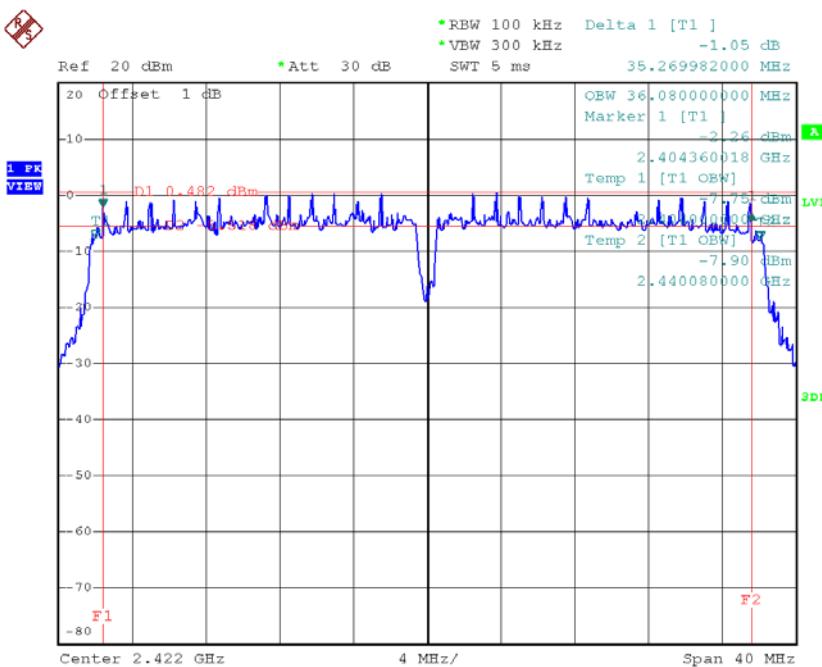
TX CH11



Date: 5.JUL.2016 11:00:24

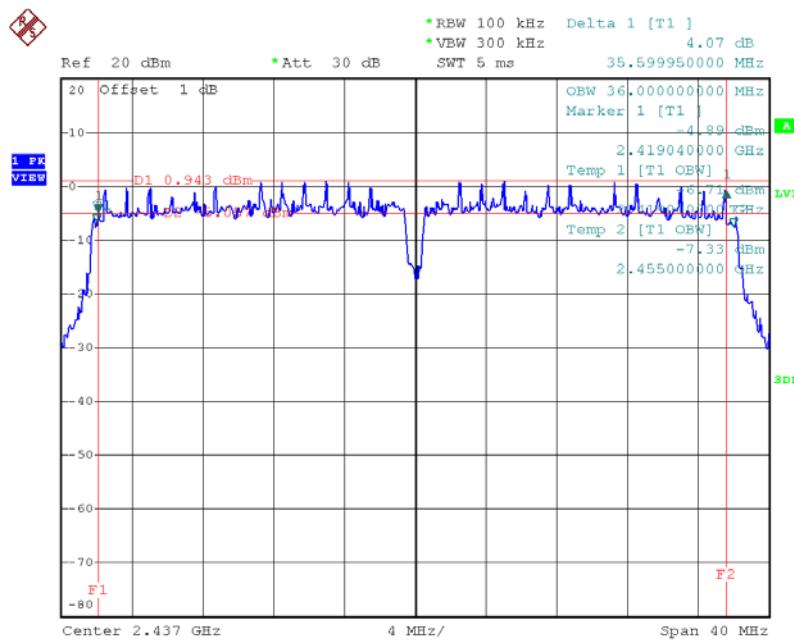
Test Mode : TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.27	36.08	500	Complies
2437	35.60	36.00	500	Complies
2452	35.60	36.08	500	Complies

TX CH03


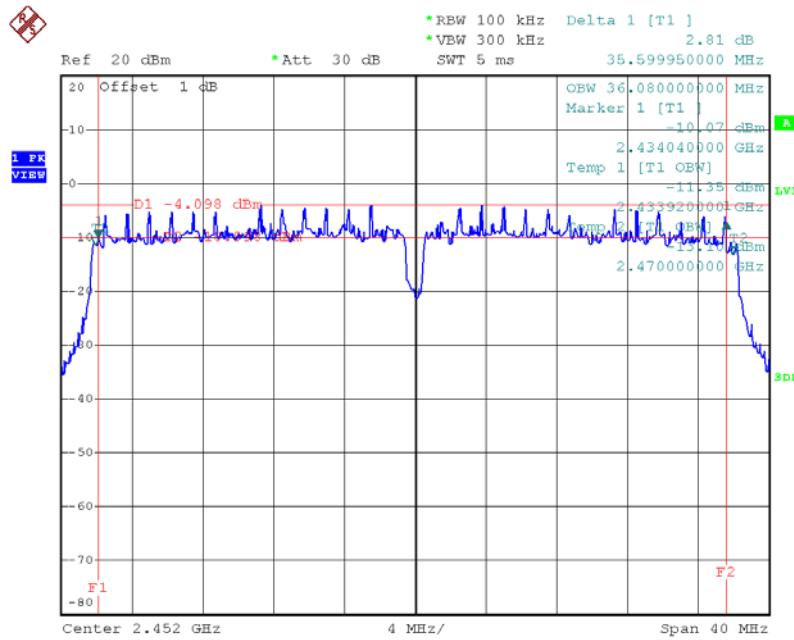
Date: 5.JUL.2016 11:02:16

TX CH06



Date: 5.JUL.2016 11:03:59

TX CH09



Date: 5.JUL.2016 11:05:23

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	15.31	0.03	30.00	1.00	Complies
2437	15.48	0.04	30.00	1.00	Complies
2462	16.87	0.05	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	15.71	0.04	30.00	1.00	Complies
2437	17.24	0.05	30.00	1.00	Complies
2462	18.66	0.07	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.24	0.33	30.00	1.00	Complies
2437	24.89	0.31	30.00	1.00	Complies
2462	24.11	0.26	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.87	0.39	30.00	1.00	Complies
2437	25.82	0.38	30.00	1.00	Complies
2462	25.69	0.37	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.37	0.34	30.00	1.00	Complies
2437	26.02	0.40	30.00	1.00	Complies
2462	24.01	0.25	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.83	0.30	30.00	1.00	Complies
2437	26.49	0.45	30.00	1.00	Complies
2462	24.98	0.31	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	28.12	0.65	30.00	1.00	Complies
2437	29.27	0.85	30.00	1.00	Complies
2462	27.53	0.57	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.41	0.22	30.00	1.00	Complies
2437	23.89	0.24	30.00	1.00	Complies
2452	19.13	0.08	30.00	1.00	Complies

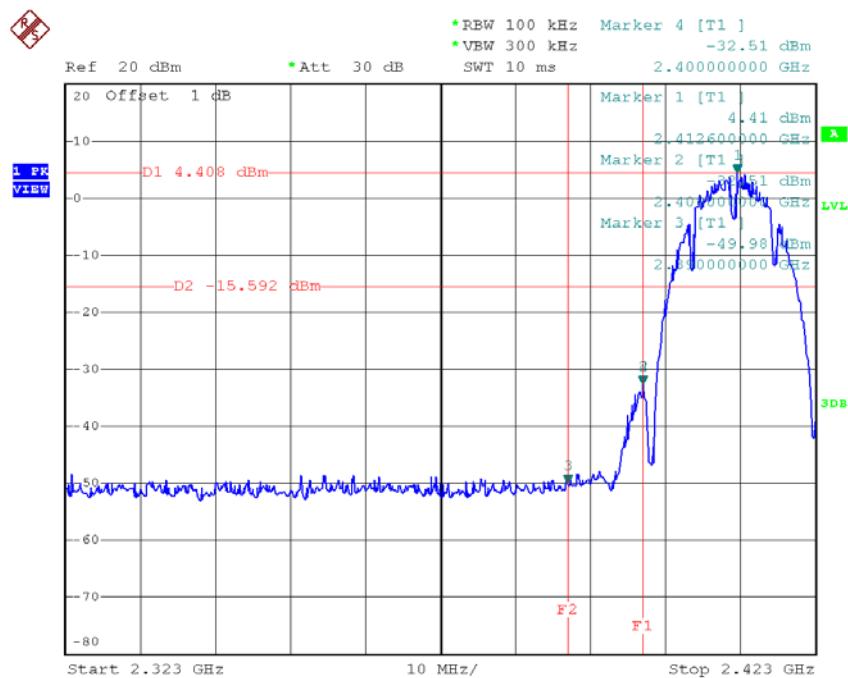
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	24.07	0.26	30.00	1.00	Complies
2437	24.78	0.30	30.00	1.00	Complies
2452	20.51	0.11	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	26.76	0.47	30.00	1.00	Complies
2437	27.37	0.55	30.00	1.00	Complies
2452	22.88	0.19	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

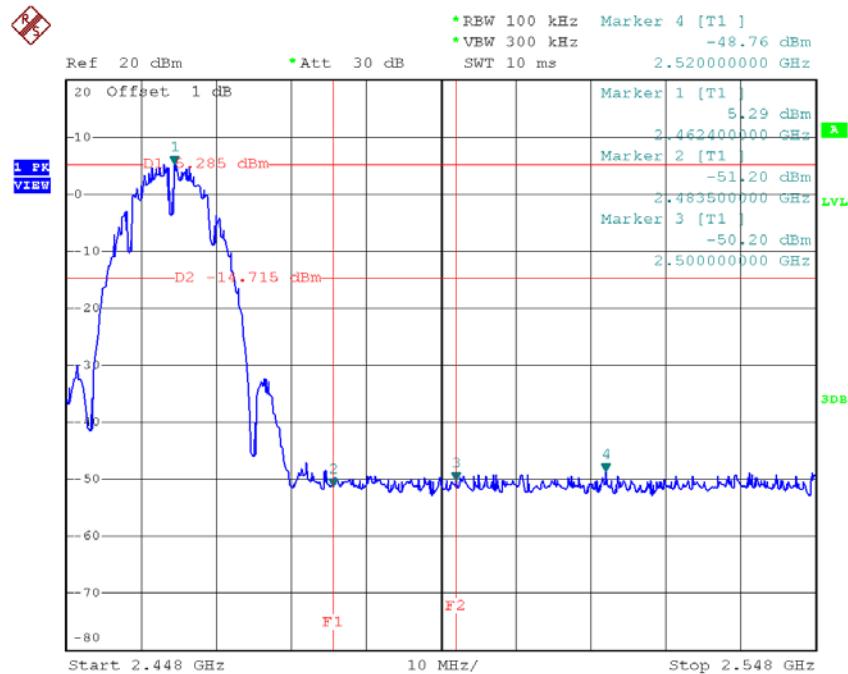
Test Mode : TX B Mode_ANT 1

TX B mode CH01



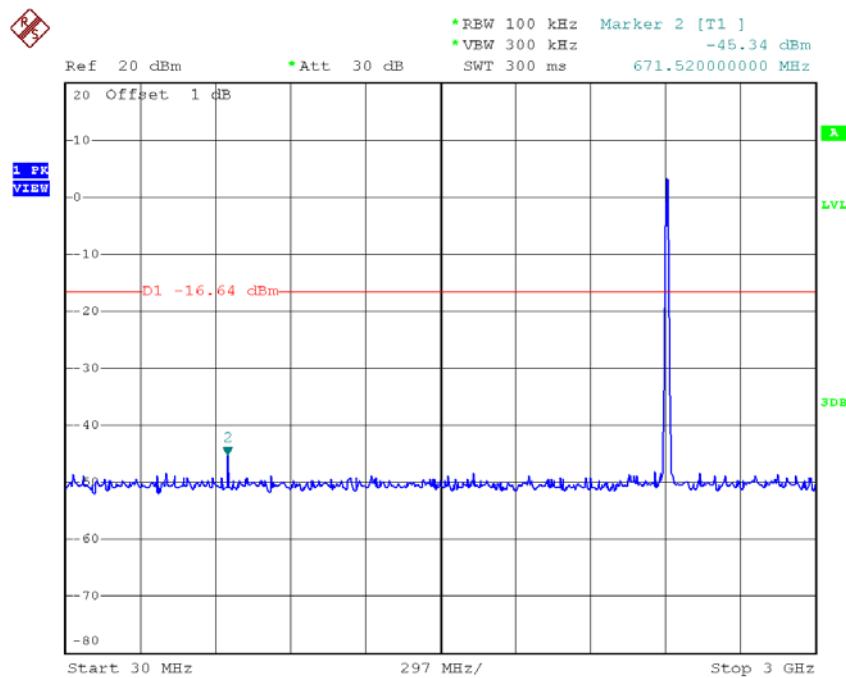
Date: 5.JUL.2016 10:30:57

TX B mode CH11



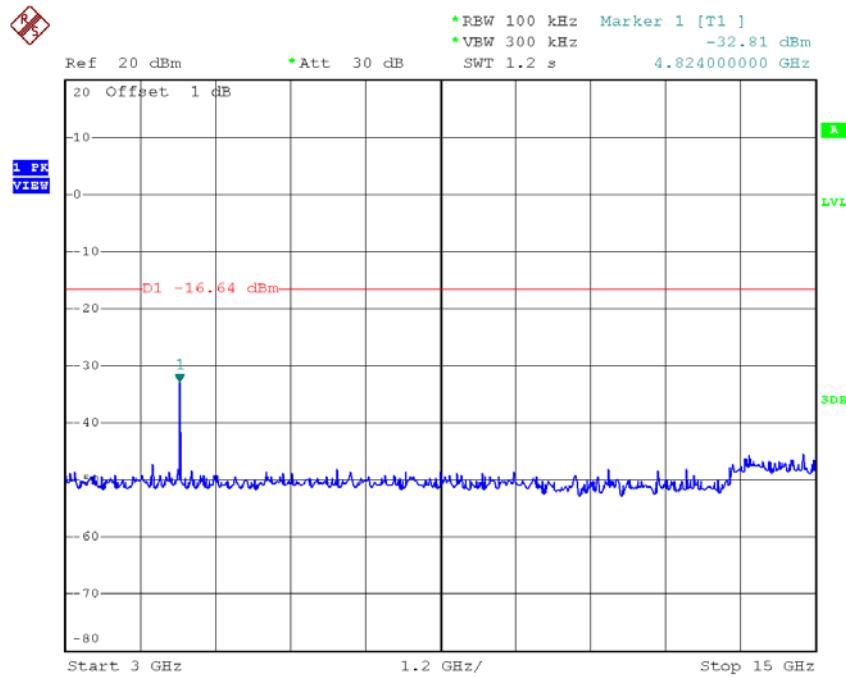
Date: 5.JUL.2016 10:35:18

TX B mode CH01 (10 Harmonic of the frequency)-1



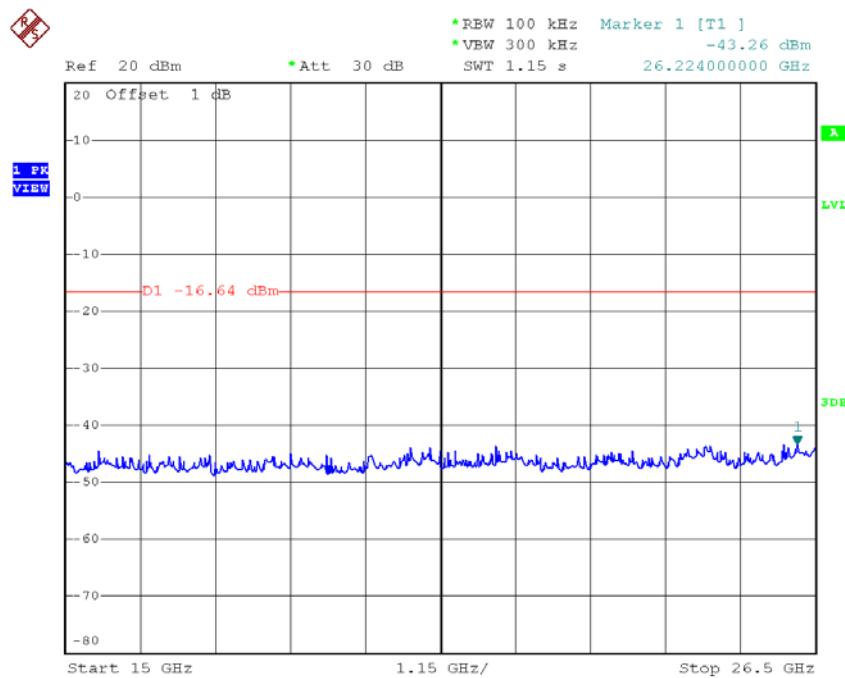
Date: 5.JUL.2016 10:30:32

TX B mode CH01 (10 Harmonic of the frequency)-2



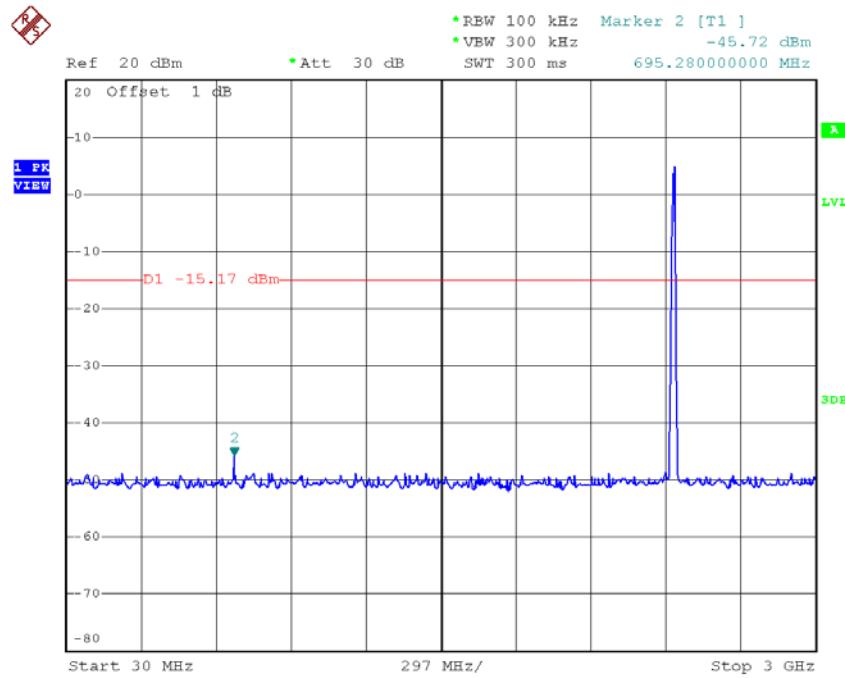
Date: 5.JUL.2016 10:30:40

TX B mode CH01 (10 Harmonic of the frequency)-3

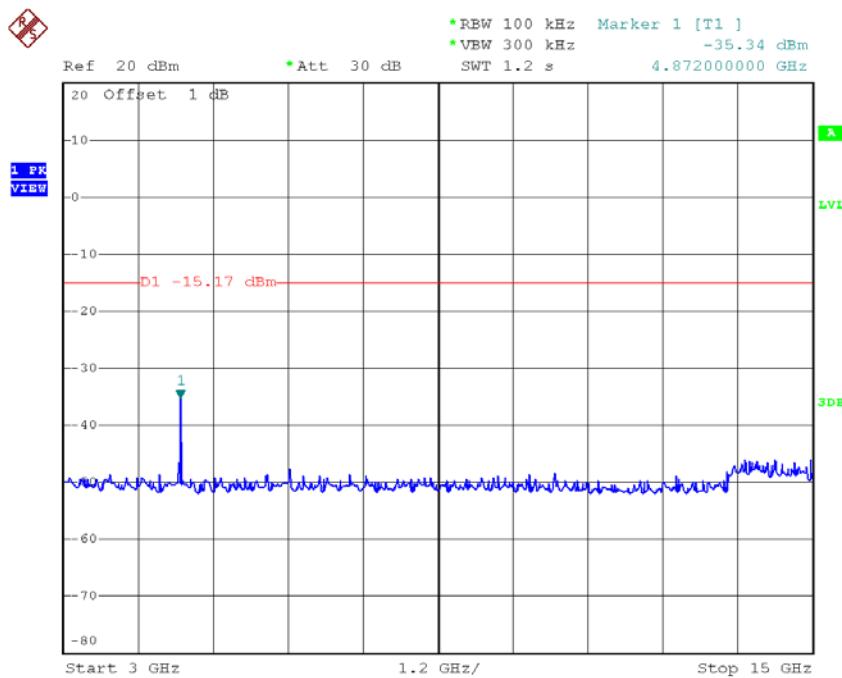


Date: 5.JUL.2016 10:30:49

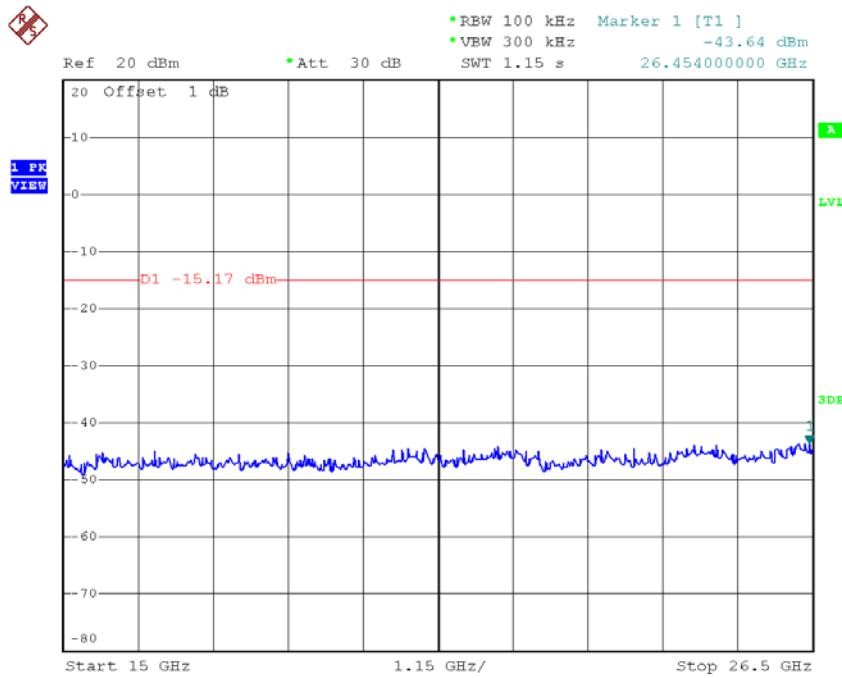
TX B mode CH06 (10 Harmonic of the frequency)-1



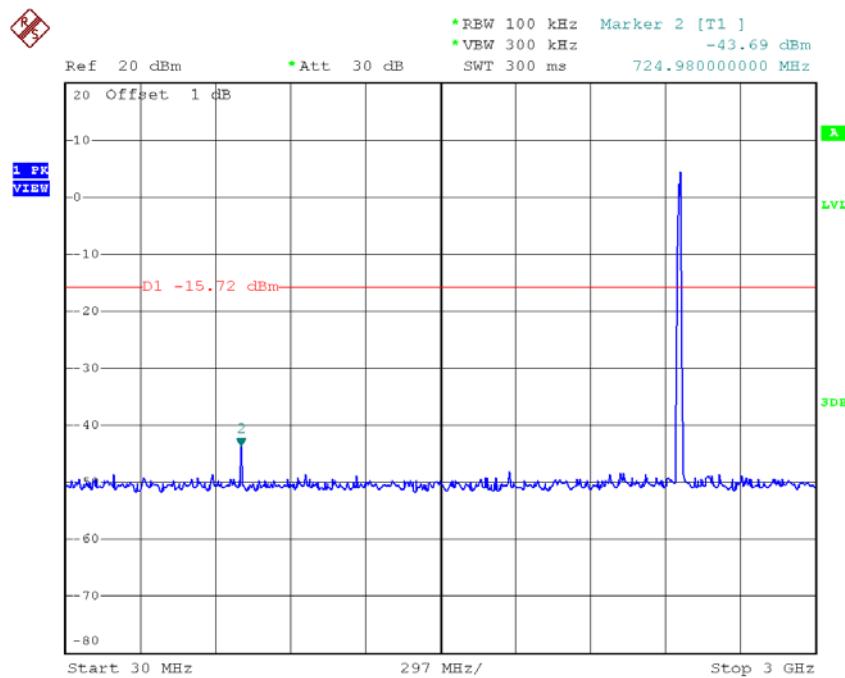
Date: 5.JUL.2016 10:33:19

TX B mode CH06 (10 Harmonic of the frequency)-2

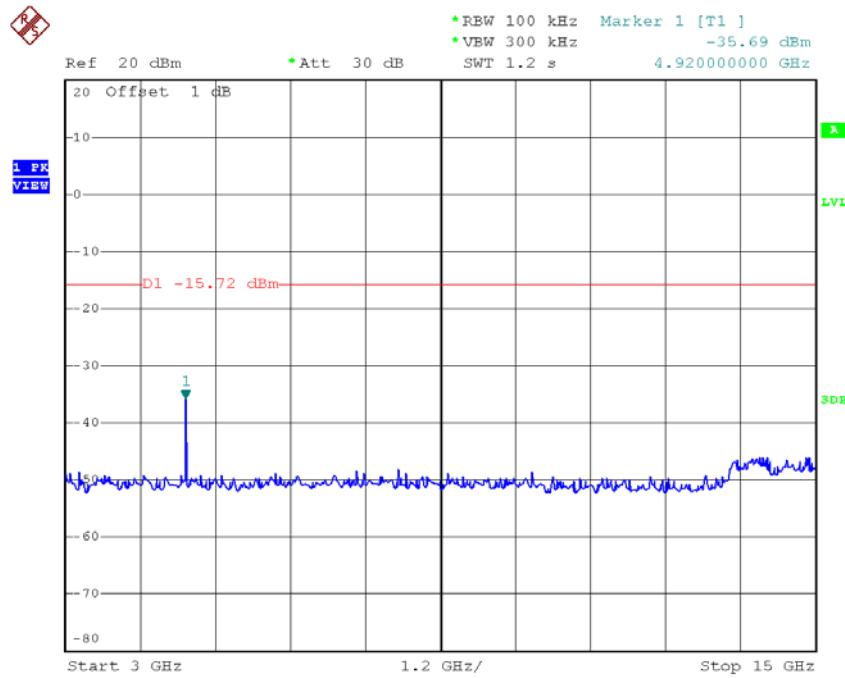
Date: 5.JUL.2016 10:33:28

TX B mode CH06 (10 Harmonic of the frequency)-3

Date: 5.JUL.2016 10:33:36

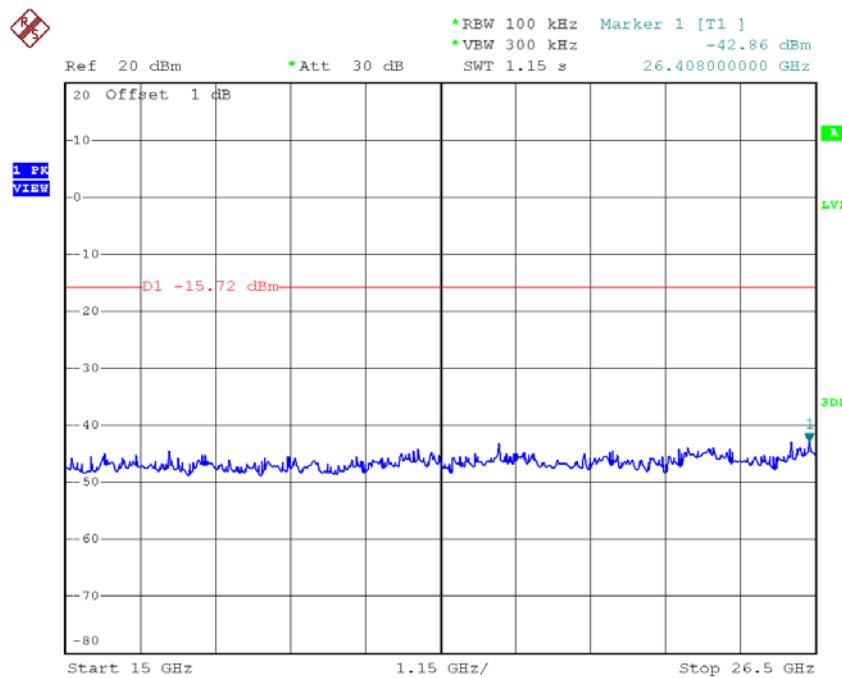
TX B mode CH11 (10 Harmonic of the frequency)-1

Date: 5.JUL.2016 10:34:53

TX B mode CH11 (10 Harmonic of the frequency)-2

Date: 5.JUL.2016 10:35:01

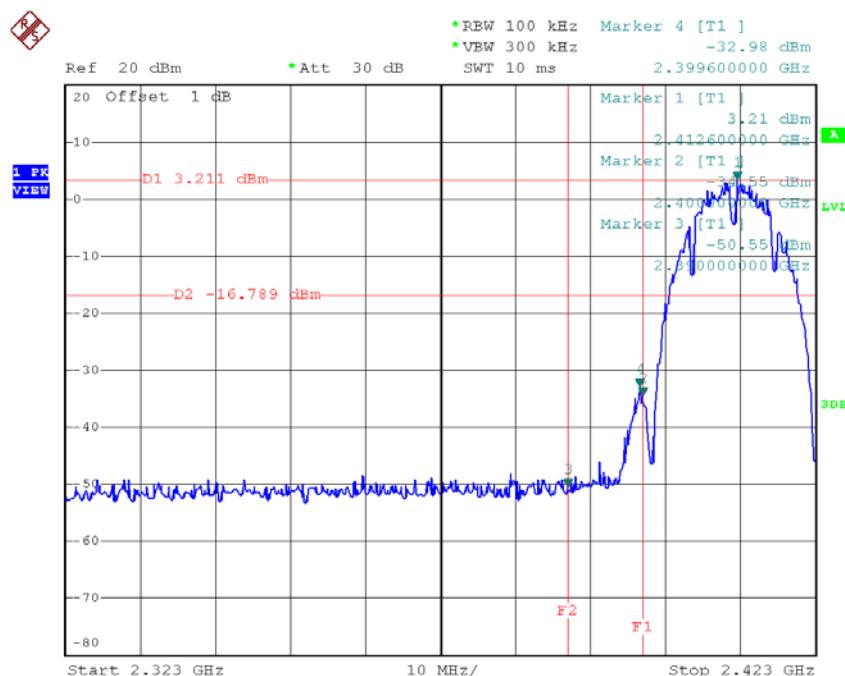
TX B mode CH11 (10 Harmonic of the frequency)-3



Date: 5.JUL.2016 10:35:10

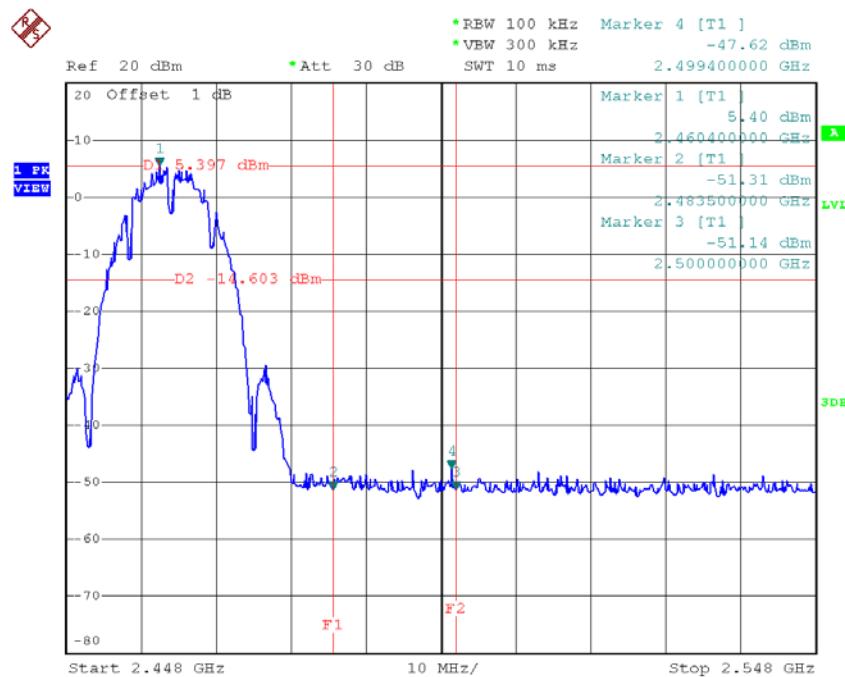
Test Mode :	TX B Mode_ANT 2
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TX B mode CH01



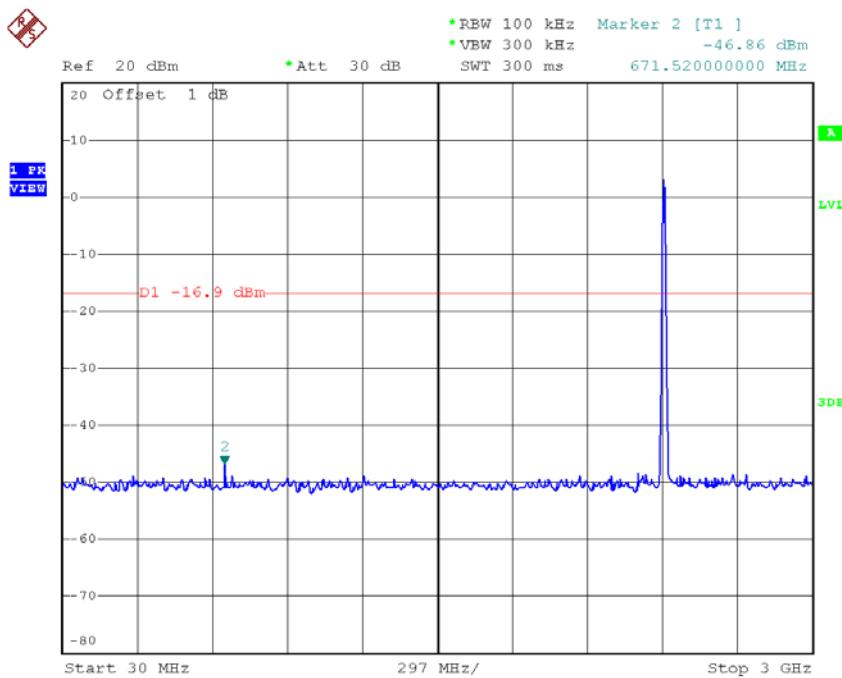
Date: 5.JUL.2016 10:39:06

TX B mode CH11



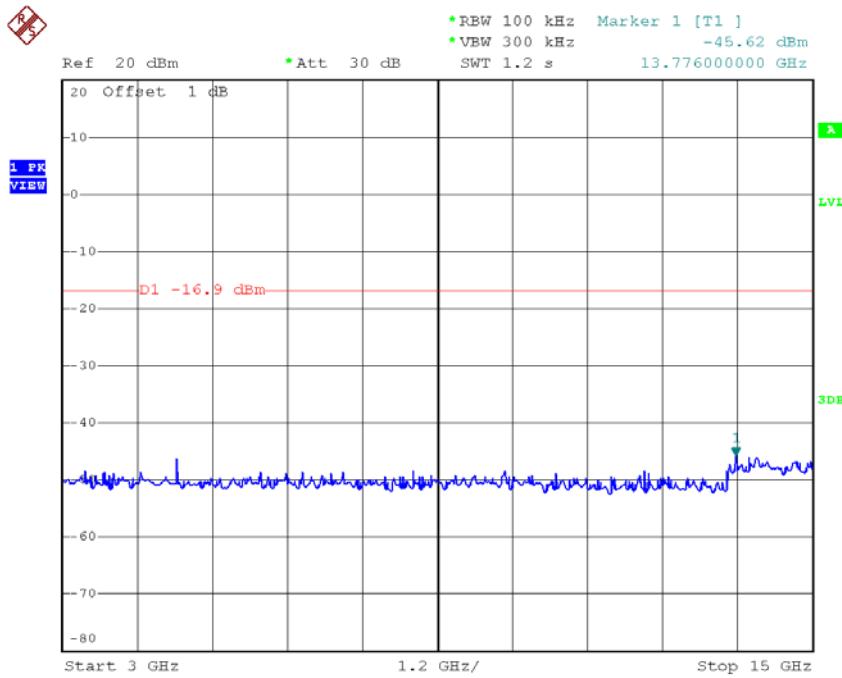
Date: 5.JUL.2016 10:44:39

TX B mode CH01 (10 Harmonic of the frequency)-1

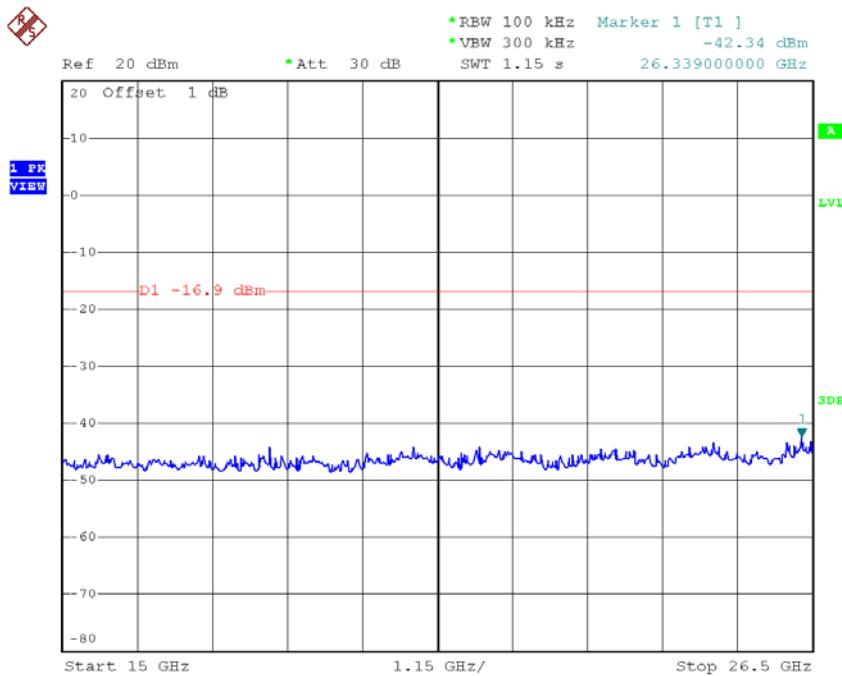


Date: 5.JUL.2016 10:38:42

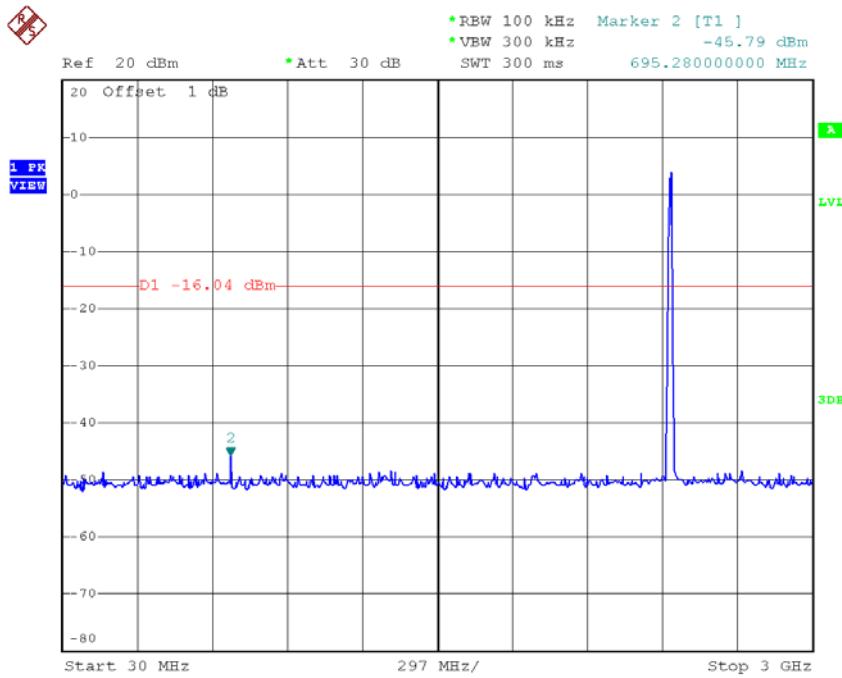
TX B mode CH01 (10 Harmonic of the frequency)-2



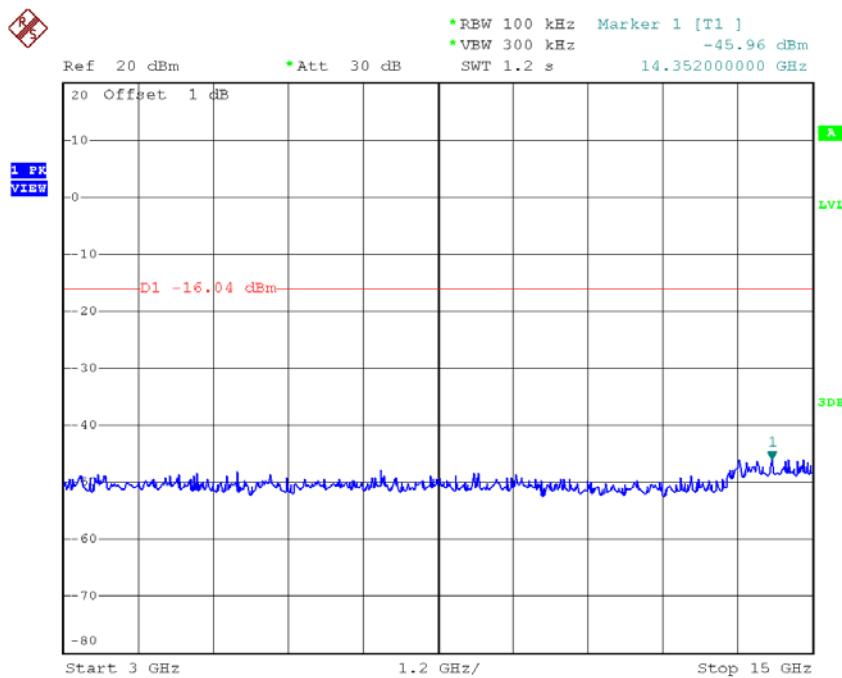
Date: 5.JUL.2016 10:38:50

TX B mode CH01 (10 Harmonic of the frequency)-3

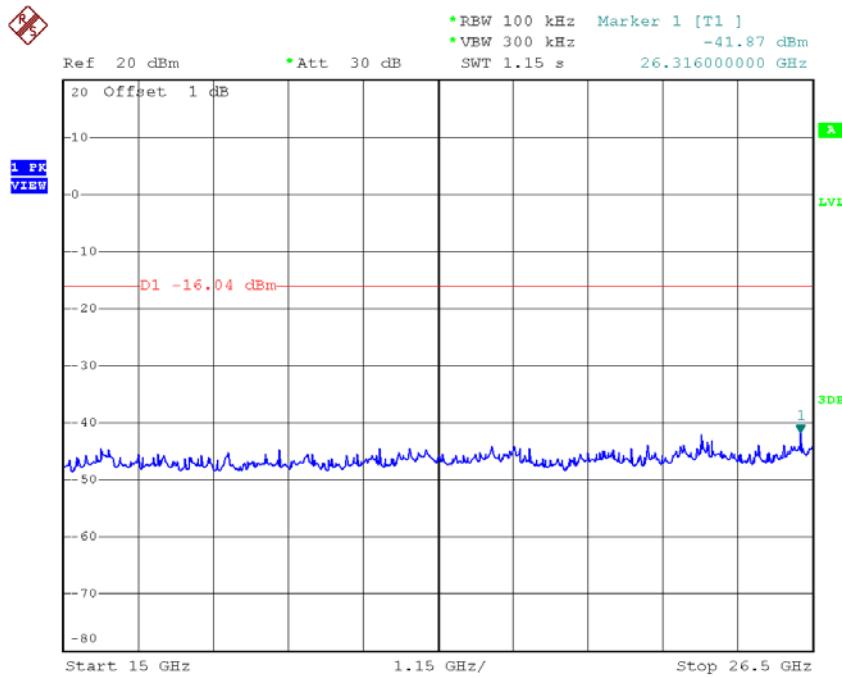
Date: 5.JUL.2016 10:38:58

TX B mode CH06 (10 Harmonic of the frequency)-1

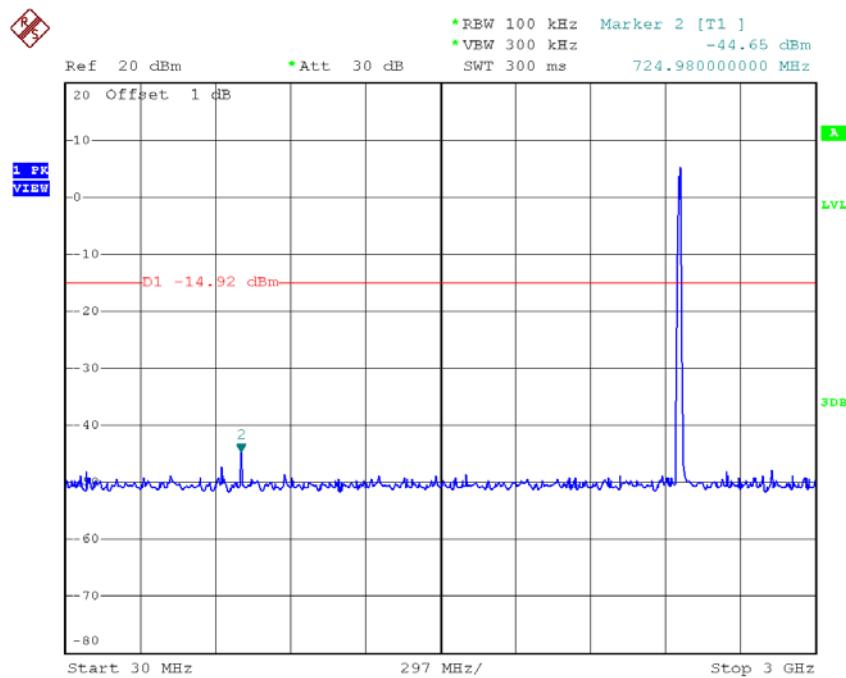
Date: 5.JUL.2016 10:42:35

TX B mode CH06 (10 Harmonic of the frequency)-2

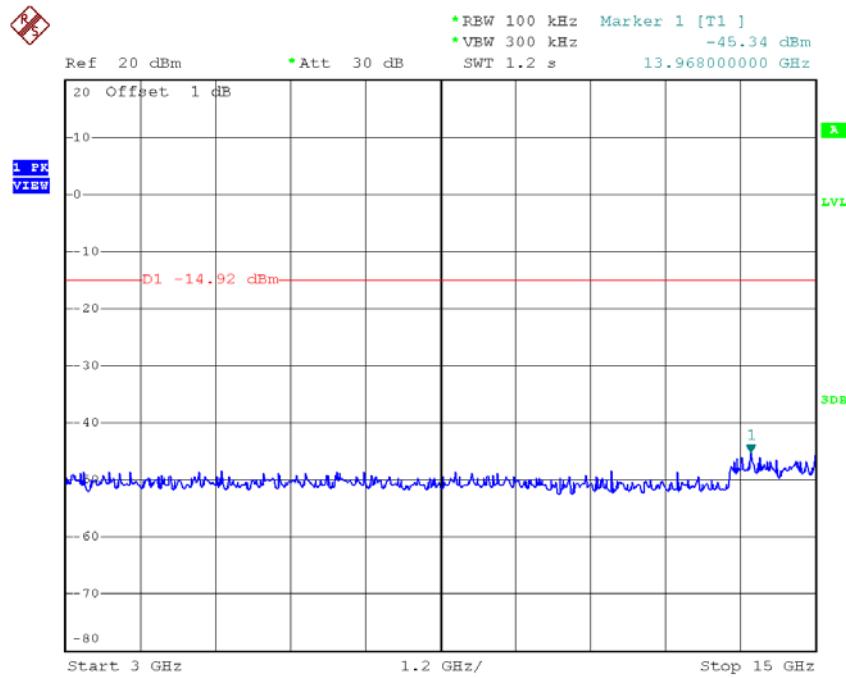
Date: 5.JUL.2016 10:42:43

TX B mode CH06 (10 Harmonic of the frequency)-3

Date: 5.JUL.2016 10:42:52

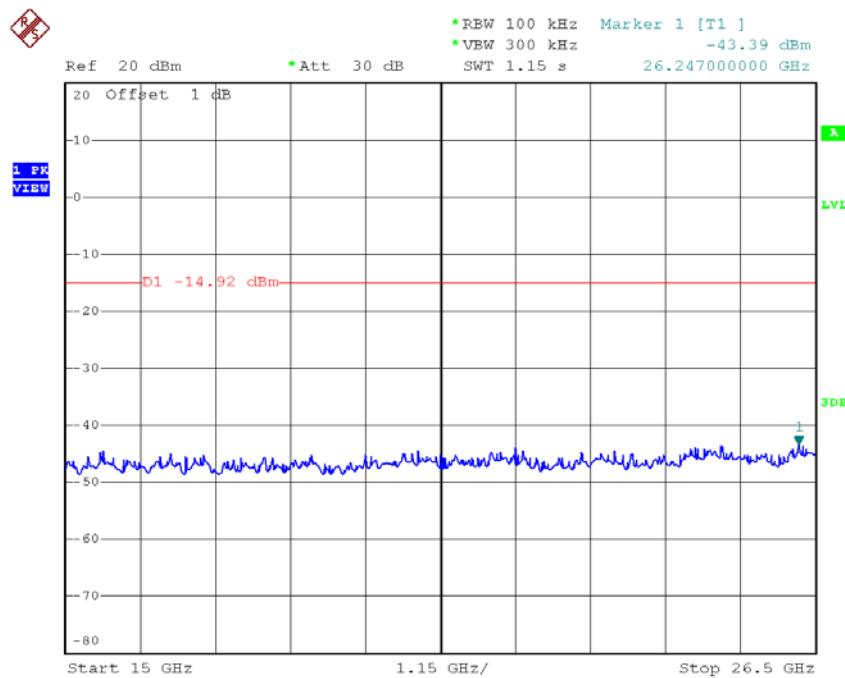
TX B mode CH11 (10 Harmonic of the frequency)-1

Date: 5.JUL.2016 10:44:15

TX B mode CH11 (10 Harmonic of the frequency)-2

Date: 5.JUL.2016 10:44:23

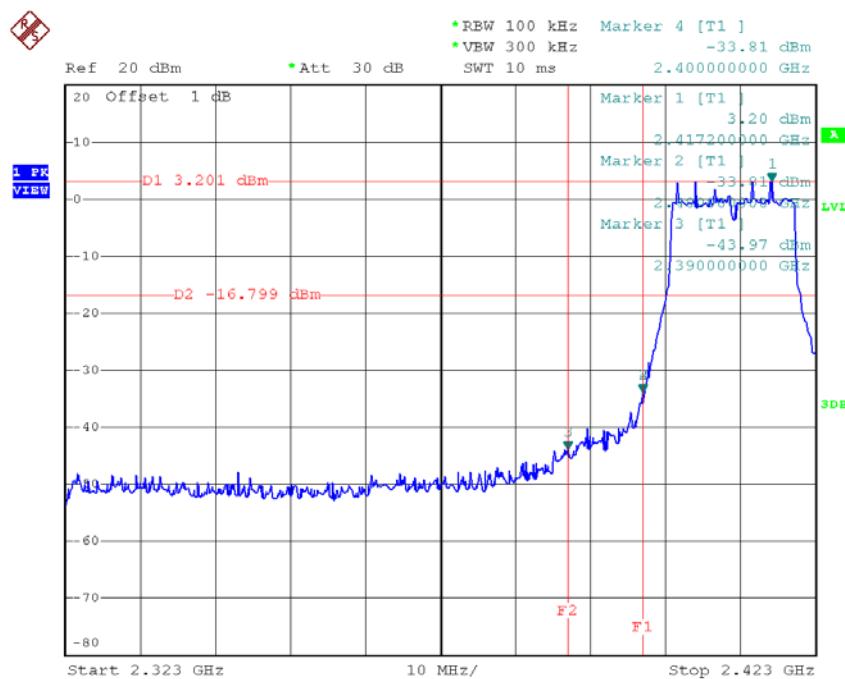
TX B mode CH11 (10 Harmonic of the frequency)-3



Date: 5.JUL.2016 10:44:32

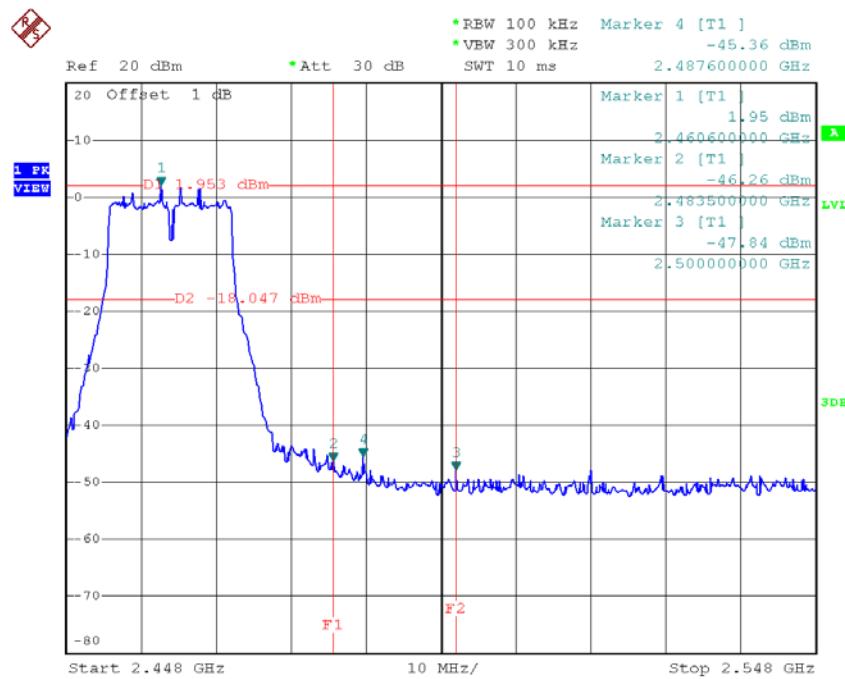
Test Mode : TX G Mode_ANT 1

TX G mode CH01

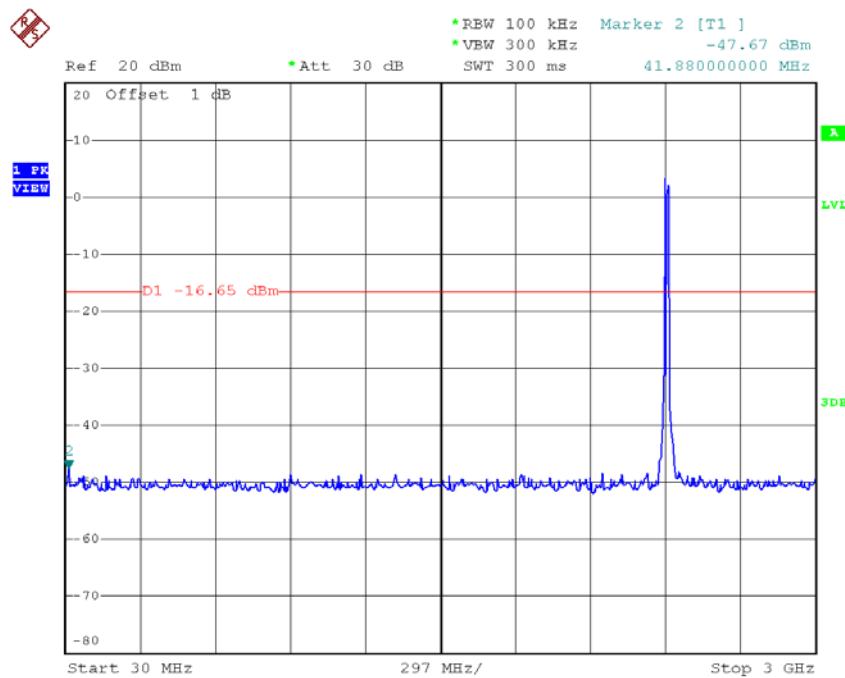


Date: 5.JUL.2016 10:51:15

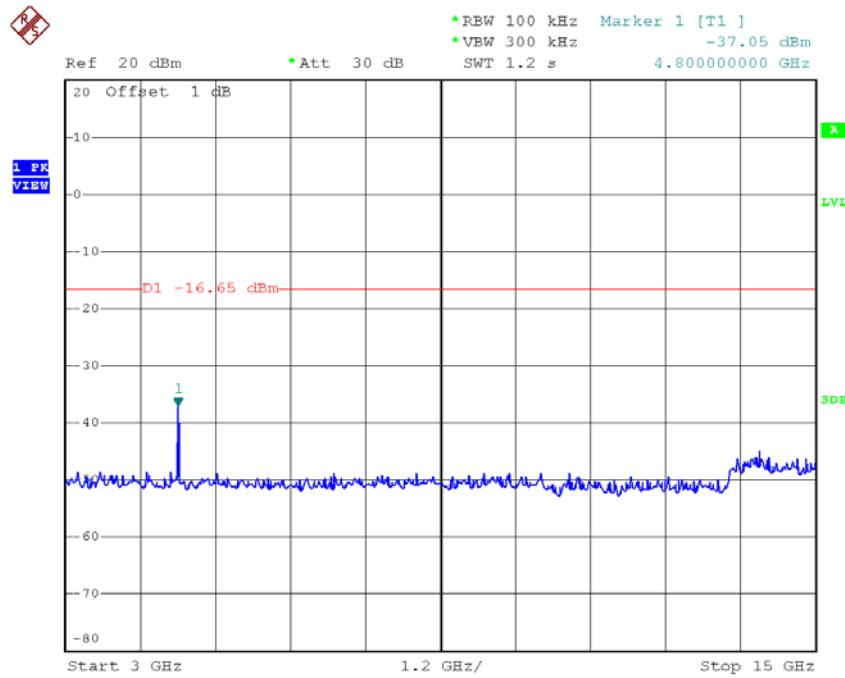
TX G mode CH11



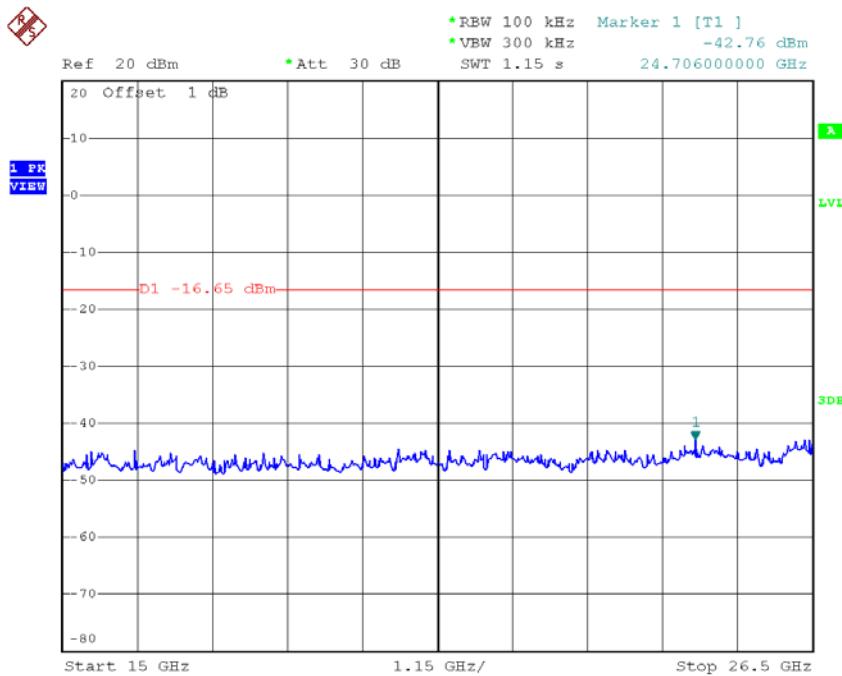
Date: 5.JUL.2016 10:55:31

TX G mode CH01 (10 Harmonic of the frequency)-1


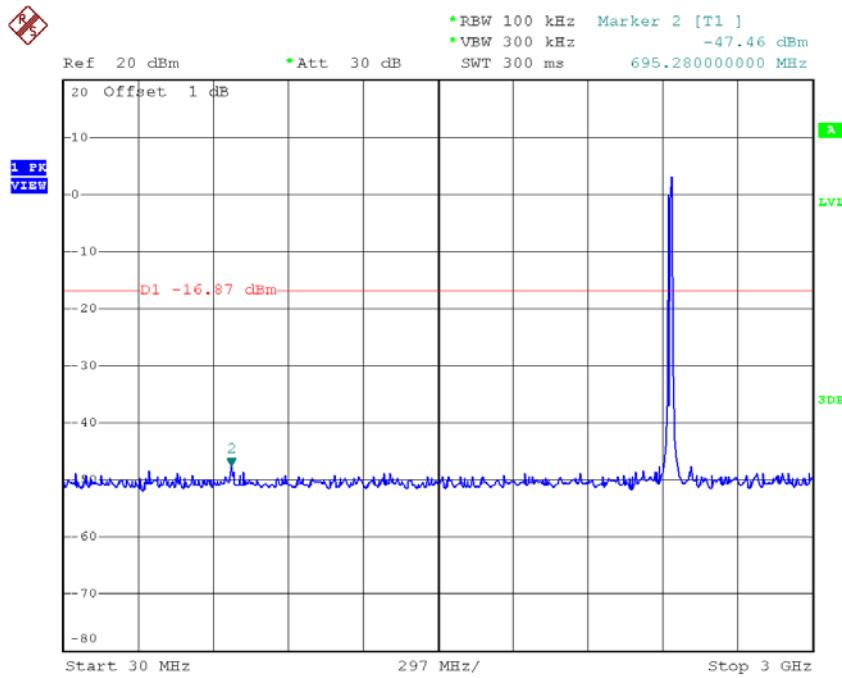
Date: 5.JUL.2016 10:50:50

TX G mode CH01 (10 Harmonic of the frequency)-2


Date: 5.JUL.2016 10:50:58

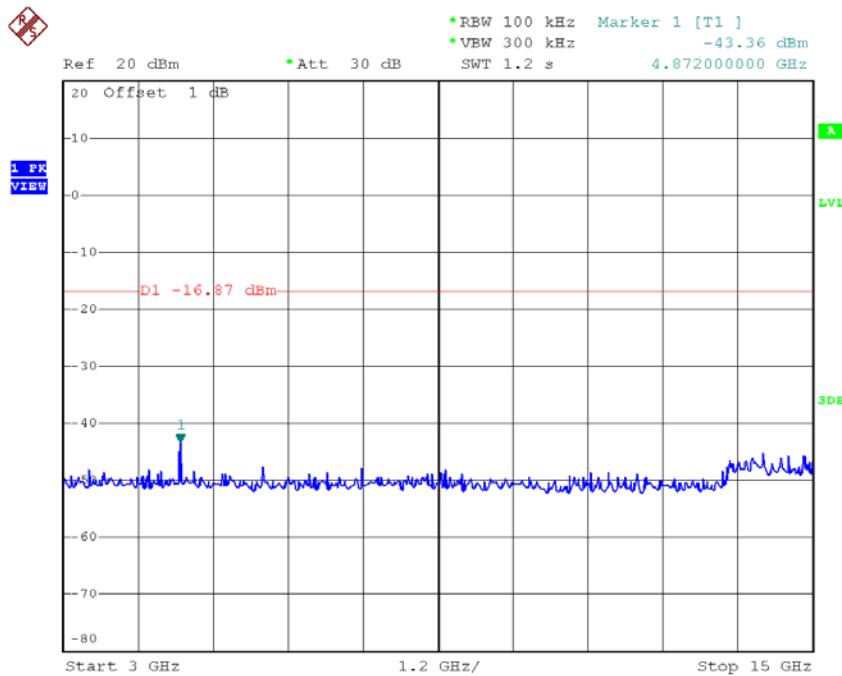
TX G mode CH01 (10 Harmonic of the frequency)-3


Date: 5.JUL.2016 10:51:07

TX G mode CH06 (10 Harmonic of the frequency)-1


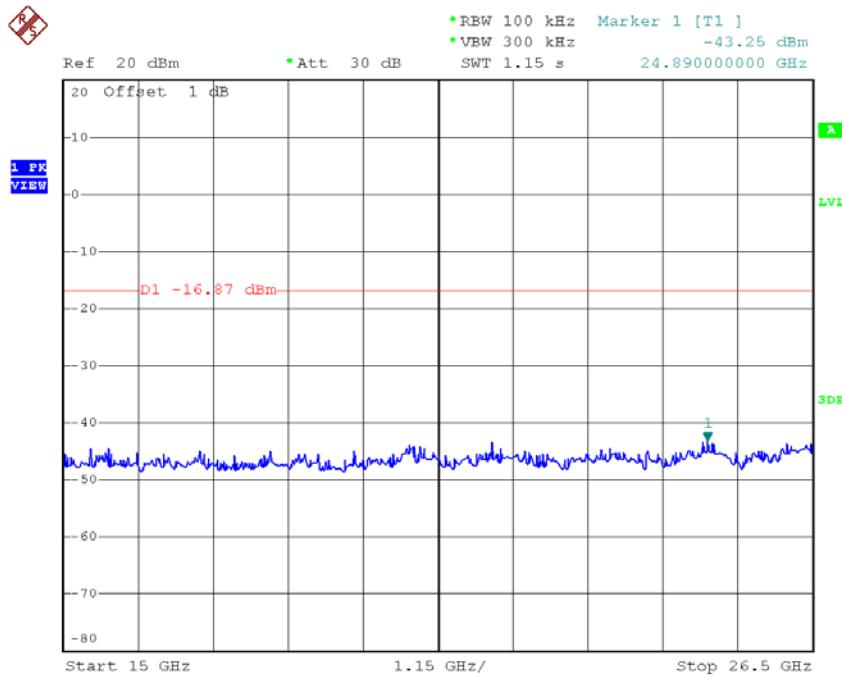
Date: 5.JUL.2016 10:53:56

TX G mode CH06 (10 Harmonic of the frequency)-2

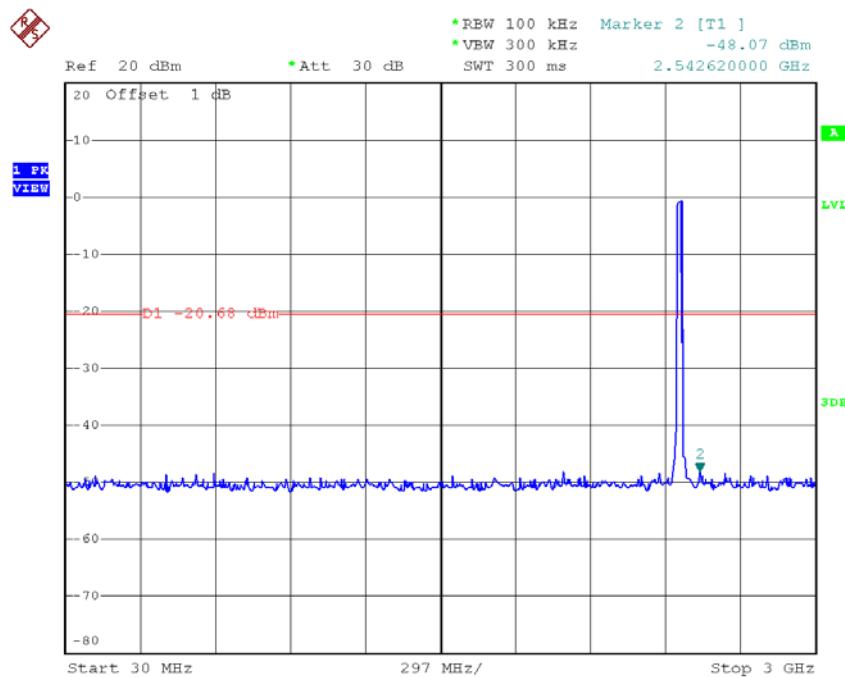


Date: 5.JUL.2016 10:54:05

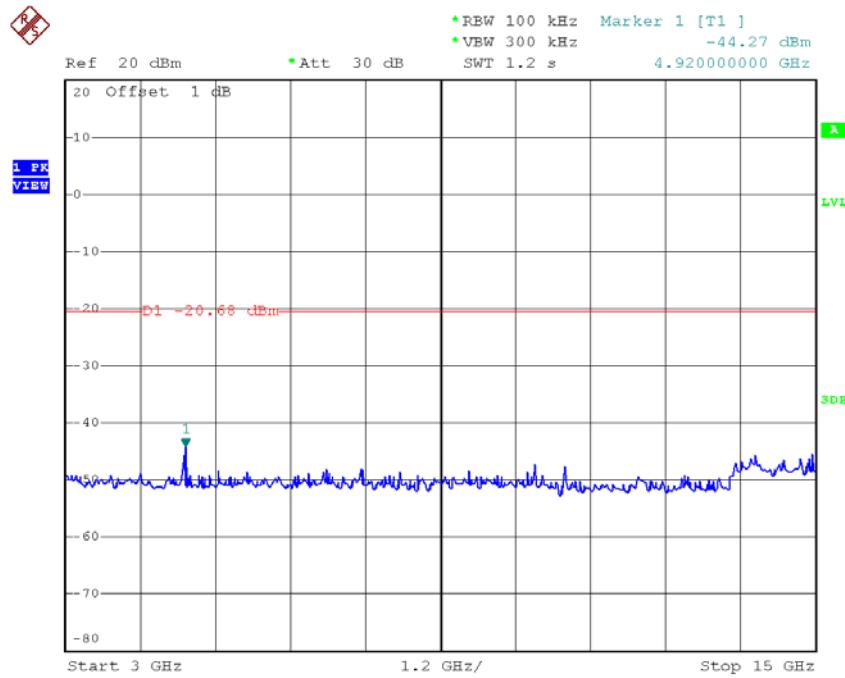
TX G mode CH06 (10 Harmonic of the frequency)-3



Date: 5.JUL.2016 10:54:13

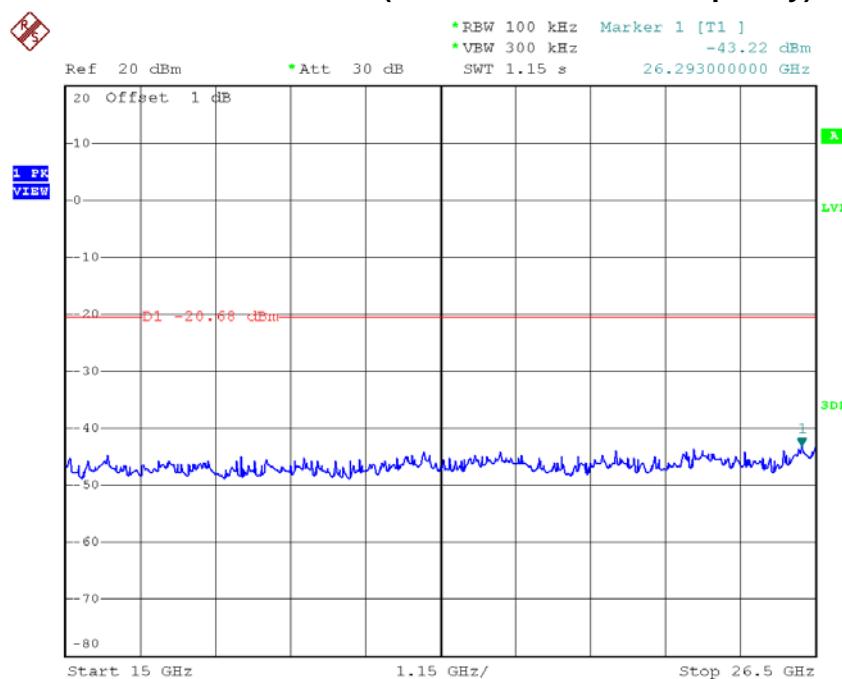
TX G mode CH11 (10 Harmonic of the frequency)-1

Date: 5.JUL.2016 10:55:07

TX G mode CH11 (10 Harmonic of the frequency)-2

Date: 5.JUL.2016 10:55:15

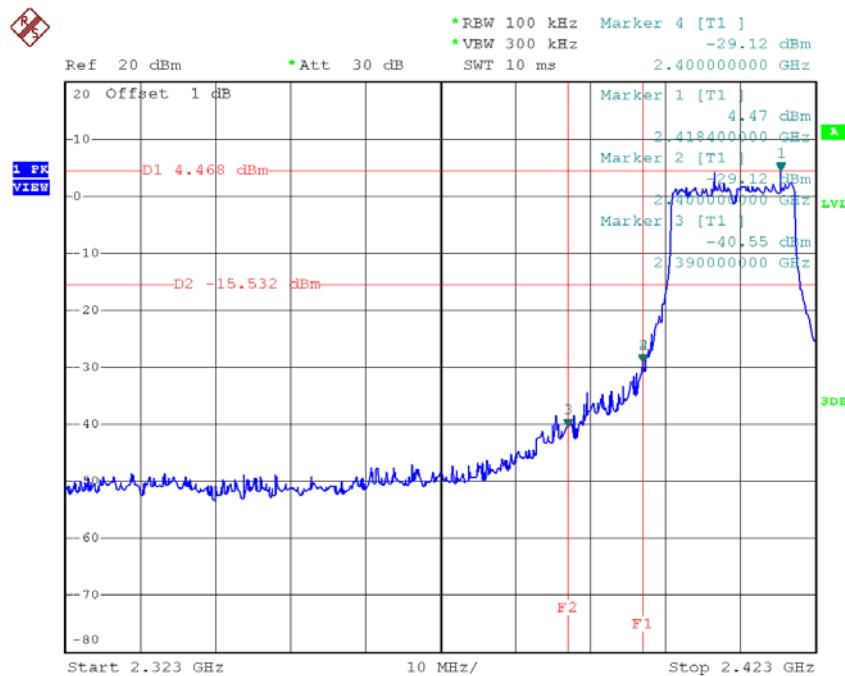
TX G mode CH11 (10 Harmonic of the frequency)-3



Date: 5.JUL.2016 10:55:23

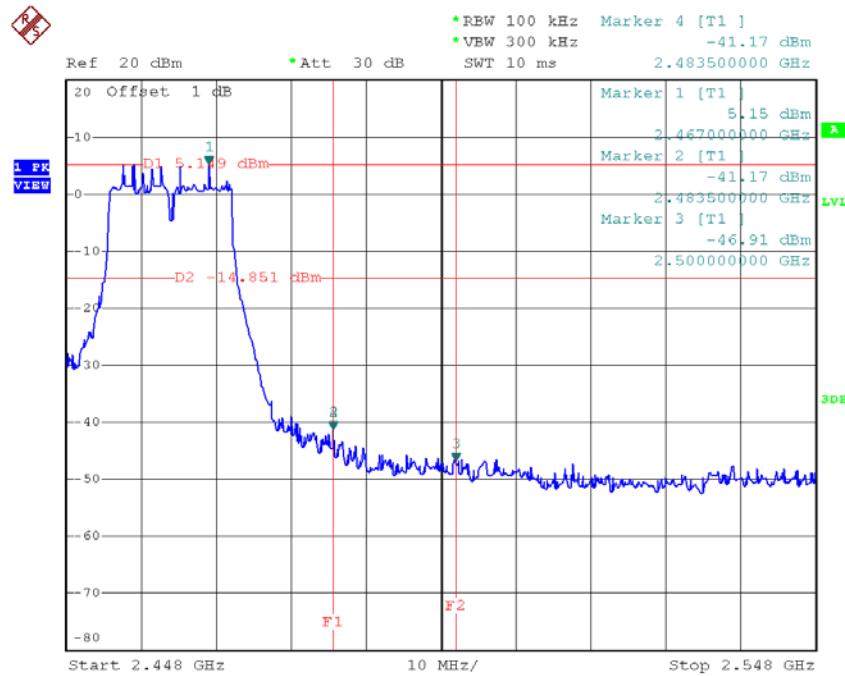
Test Mode :	TX G Mode_ANT 2
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TX G mode CH01

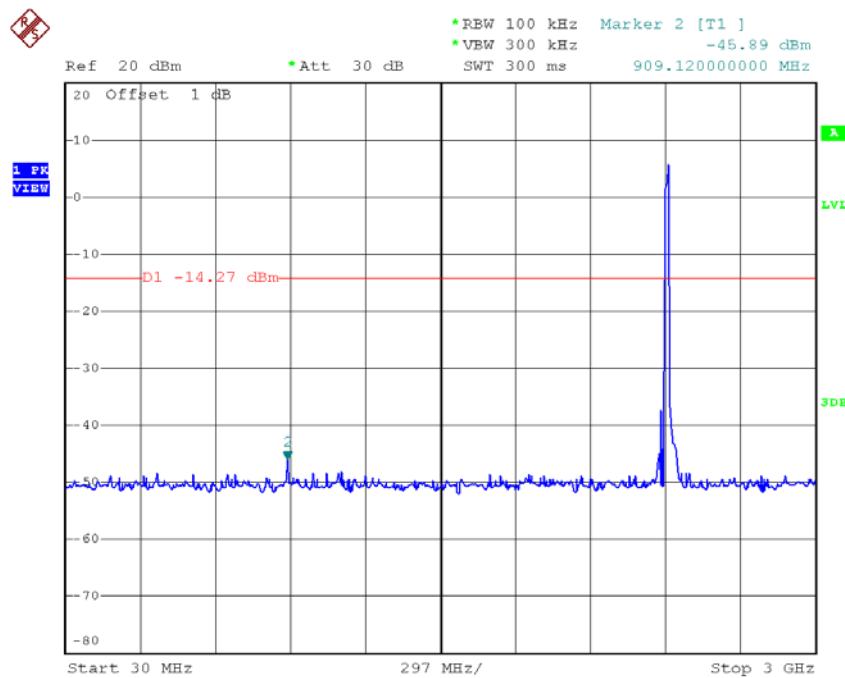


Date: 5.JUL.2016 11:08:30

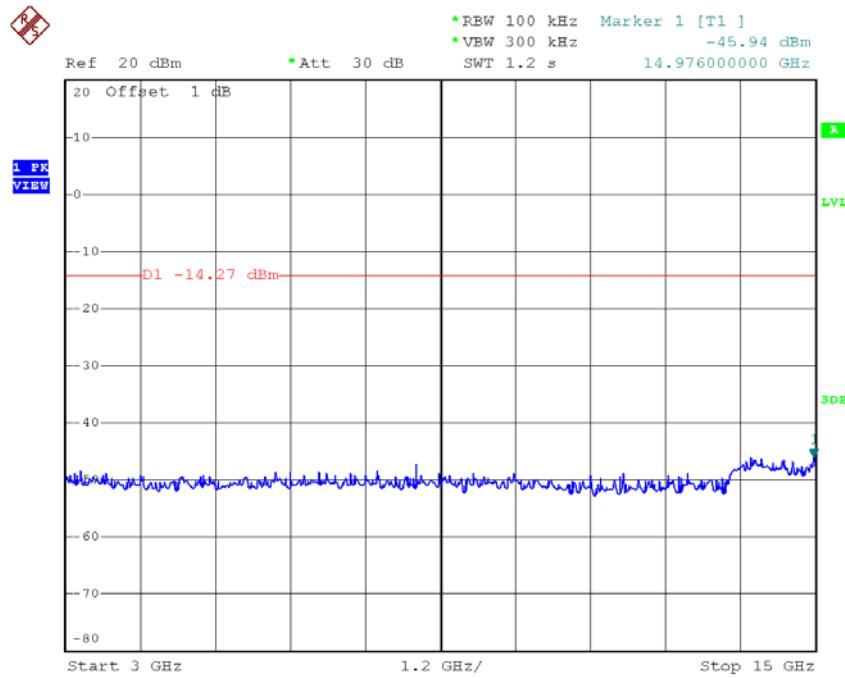
TX G mode CH11



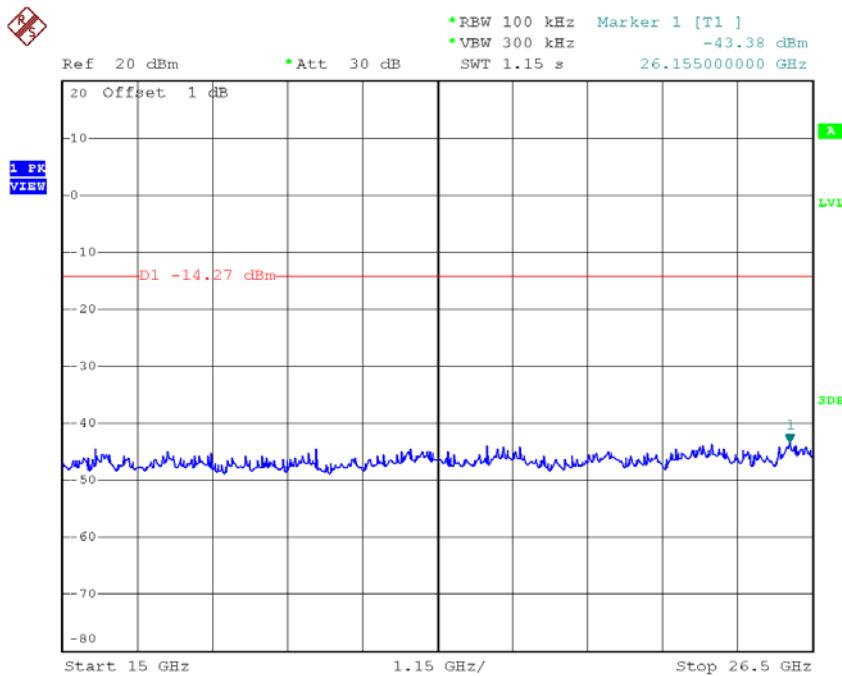
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TX G mode CH01 (10 Harmonic of the frequency)-1

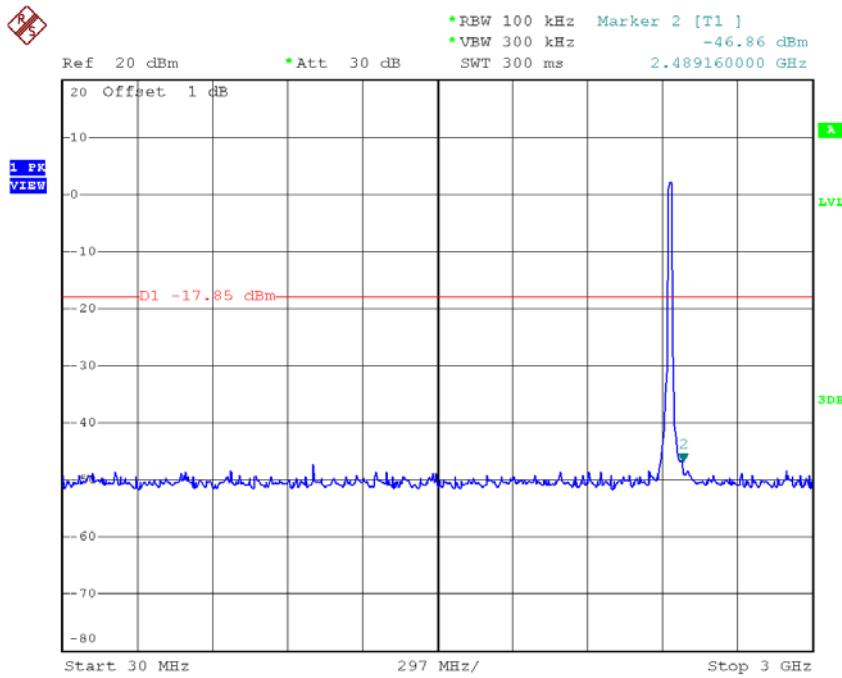
Date: 5.JUL.2016 11:08:06

TX G mode CH01 (10 Harmonic of the frequency)-2

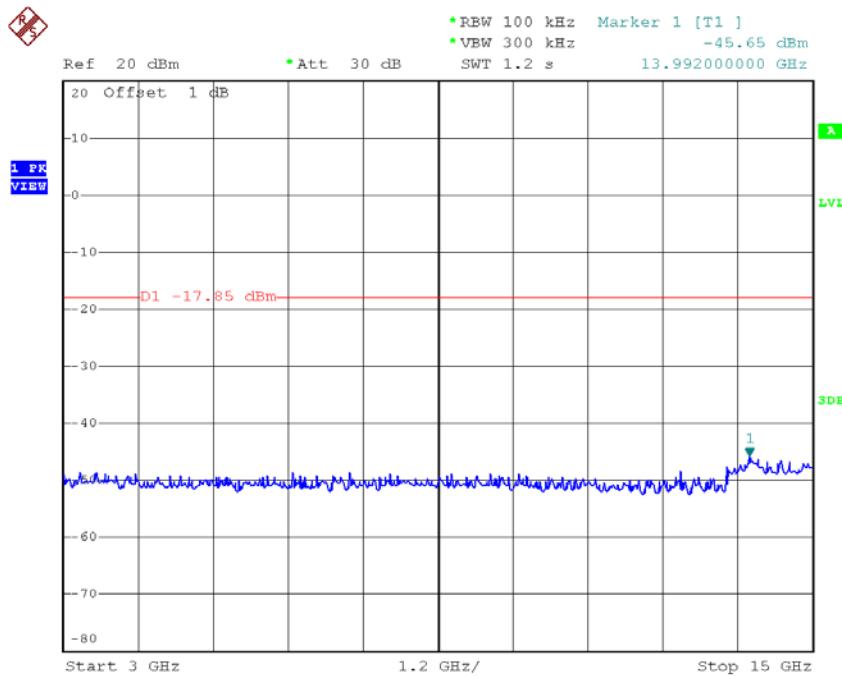
Date: 5.JUL.2016 11:08:14

TX G mode CH01 (10 Harmonic of the frequency)-3


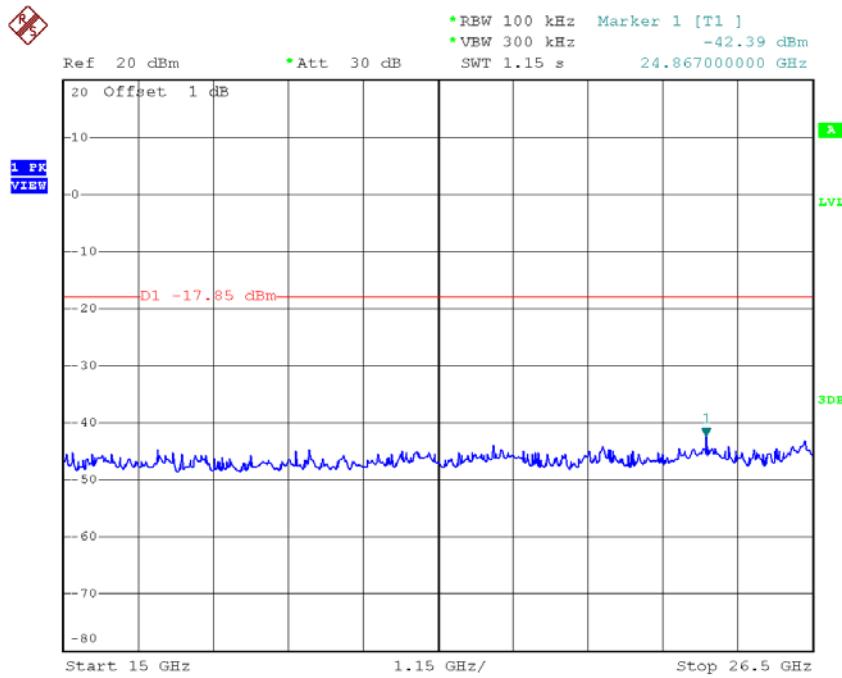
Date: 5.JUL.2016 11:08:23

TX G mode CH06 (10 Harmonic of the frequency)-1


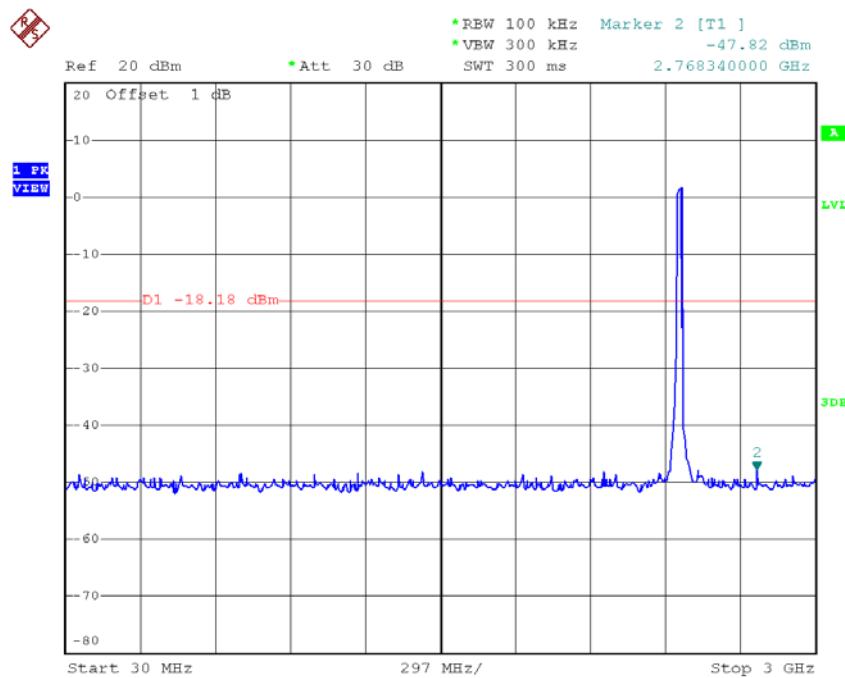
Date: 5.JUL.2016 11:13:24

TX G mode CH06 (10 Harmonic of the frequency)-2


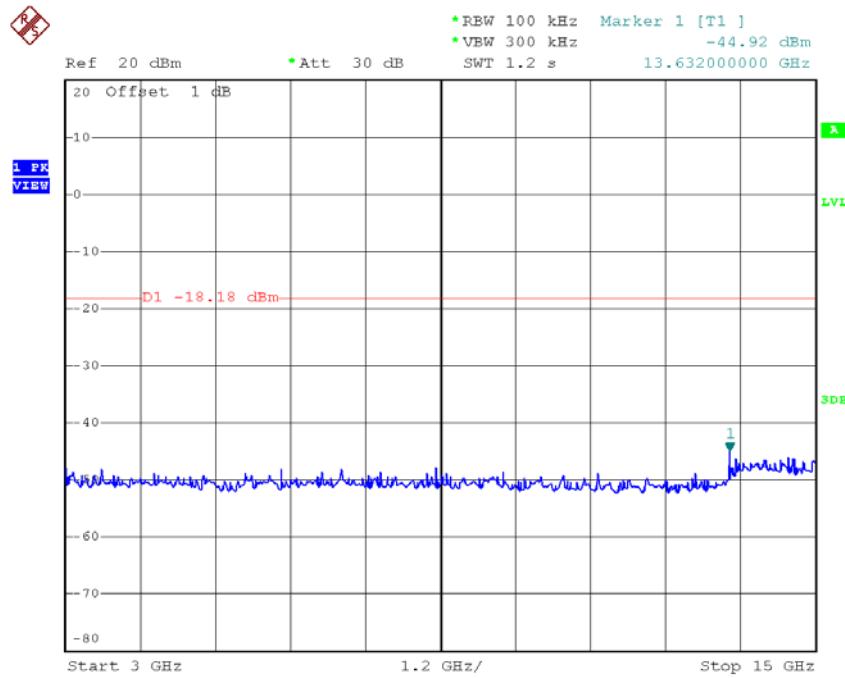
Date: 5.JUL.2016 11:13:32

TX G mode CH06 (10 Harmonic of the frequency)-3


Date: 5.JUL.2016 11:13:40

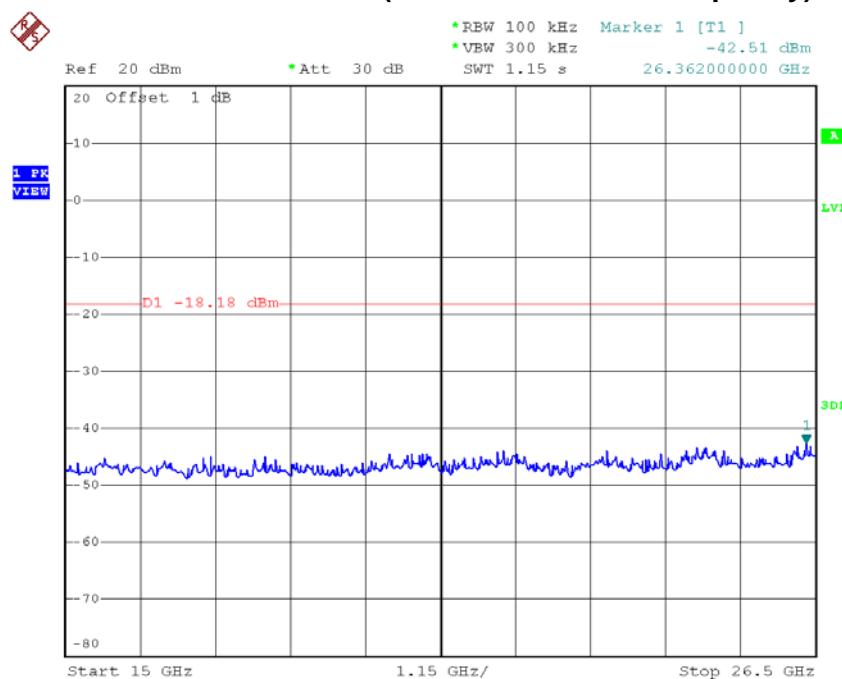
TX G mode CH11 (10 Harmonic of the frequency)-1

Date: 5.JUL.2016 11:14:44

TX G mode CH11 (10 Harmonic of the frequency)-2

Date: 5.JUL.2016 11:14:53

TX G mode CH11 (10 Harmonic of the frequency)-3



Date: 5.JUL.2016 11:15:01