

FCC&IC Radio Test Report

FCC ID: 2AEMI-PHOTON

IC: 20127-PHOTON

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

Project No. : 1504C213B
Equipment : PHOTON
Model Name : PHOTONH
Applicant : Particle Industries, Inc
Address : 1475 Folsom Street, Suite 200, San Francisco, CA 94103

Date of Receipt : Aug. 29, 2016
Date of Test : Aug. 29, 2016 ~ Jan. 13, 2017
Issued Date : Jan. 16, 2017
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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FICP-1-1504C213	Original report.	May 22, 2015
BTL- FICP -1-1504C213B	Compared with the previous report (BTL-FICP-1-1504C213), 1. The changes of components (a) Replace the USB connection Encapsulation. (b) The model of the power controlling IC U2 changes from RT8008-3V3 to RT8059. (c) Add two resistances R9 and R10. (d) Add one capacitance C18. (e) change the resistor R4's encapsulation. 2. Layout of non transmitter part is changed. 3. Standard version is updated to the latest. 4. Applicant and address are updated. 5. Brand name (Particle) is added. All test results has been re-evaluated and recorded in the test report.	Jan. 16, 2017

1. CERTIFICATION

Equipment : PHOTON
Brand Name : Particle
Model Name : PHOTONH
Applicant : Particle Industries, Inc
Date of Test : Aug. 29, 2016 ~ Jan. 13, 2017
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013
Canada RSS-247 Issue 1, May 2015
RSS-GEN Issue 4, Nov 2014

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-FICP-1-1504C213B) 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 Canada RSS-247 Issue 1, May 2015, RSS-GEN Issue 4, Nov 2014				
Standard(s) Section		Test Item	Judgment	Remark
FCC	IC			
15.207	RSS-247 8.8	Conducted Emission	PASS	
15.247(d)	RSS-247 5.5	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	RSS-247 5.2 (1)	6dB Bandwidth	PASS	
15.247(b)(3)	RSS-247 5.4 (4)	Peak Output Power	PASS	
15.247(e)	RSS-247 5.2 (2)	Power Spectral Density	PASS	
15.203	-	Antenna Requirement	PASS	
15.247(d)/ 15.205/ 15.209	RSS-247 5.5	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

BTL's test firm number for IC: 4428B-1

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	PHOTON	
Brand Name	Particle	
Model Name	PHOTONH	
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 65 Mbps
	Output Power (Max.) - Chip antenna	802.11b: 18.69dBm 802.11g: 19.96dBm 802.11n(20MHz): 19.49dBm
	Output Power (Max.) - Dipole antenna	802.11b: 19.67dBm 802.11g: 22.13dBm 802.11n(20MHz): 20.99dBm
Power Source	Supplied from PC USB port.	
Power Rating	DC 5V	

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)							
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	ACX	AT7020 -E3R0HBA	Chip	N/A	1.30
2	CRMXTM	104-1001	Dipole	RP-TNC	2.15

Note: EUT has two types of antenna, one with chip antenna, another one with dipole antenna. Only 1 antenna active at any moment in time.

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX 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 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 4	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

For Band Edge 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

6dB Spectrum Bandwidth	
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

Maximum Conducted Output Power	
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

Power Spectral Density	
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

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 (6.5Mbps)
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

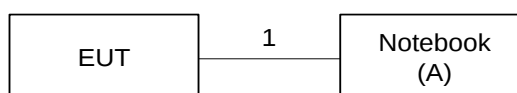
For Chip antenna:

Test software version	CMD		
Frequency (MHz)	2412	2437	2462
802.11b	17	17	16
802.11g	15	15	13
802.11n (20MHz)	15	15	15

For Dipole antenna:

Test software version	CMD		
Frequency (MHz)	2412	2437	2462
802.11b	18	18	18
802.11g	15	17	16
802.11n (20MHz)	14	16	15

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.
A	Notebook	Lenovo	G480	DOC	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.5m	USB Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	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

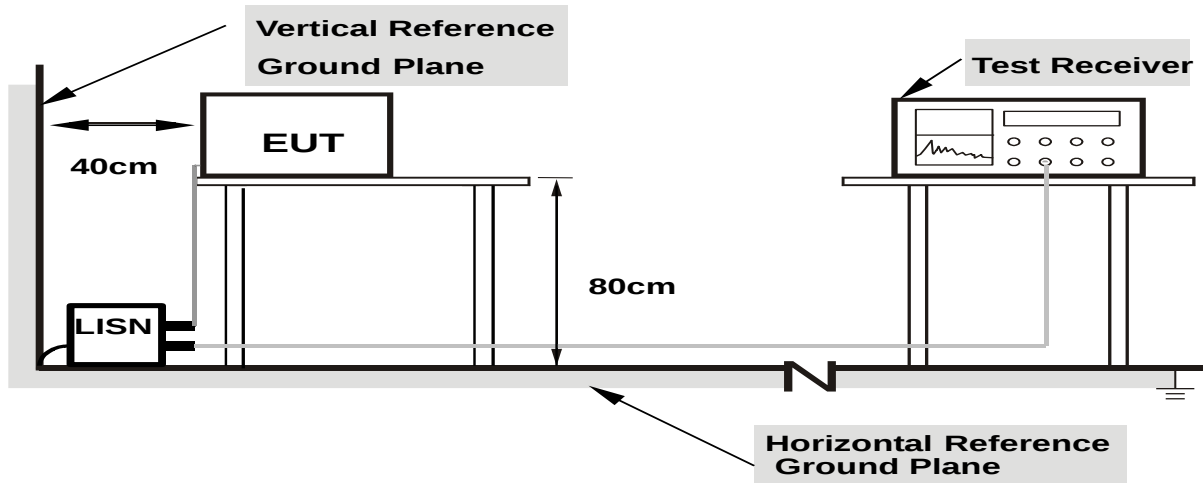
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

The EUT was 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) & RSS-247 5.5, then the 15.209(a)& RSS-Gen 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/RSS-247.
- (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

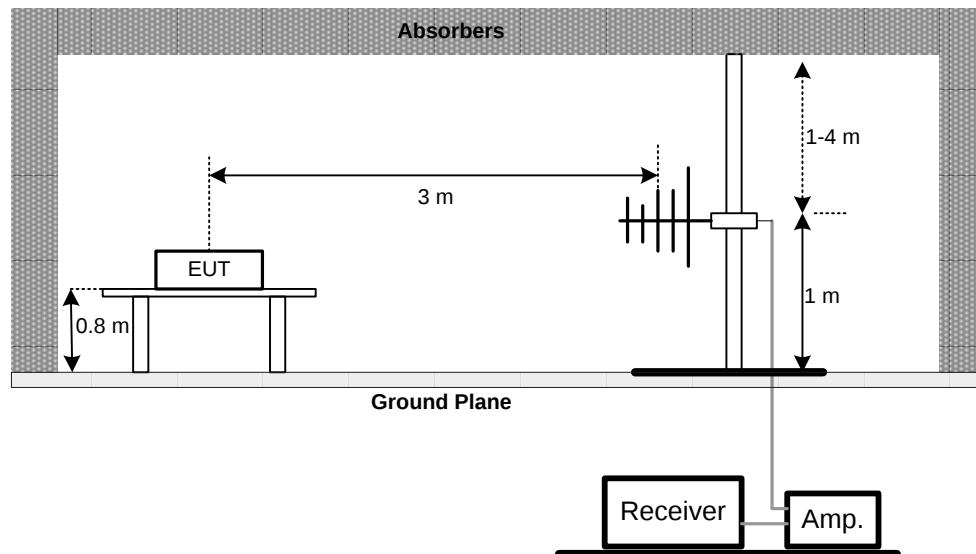
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- 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.
- 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).
- 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.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 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)
- 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)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

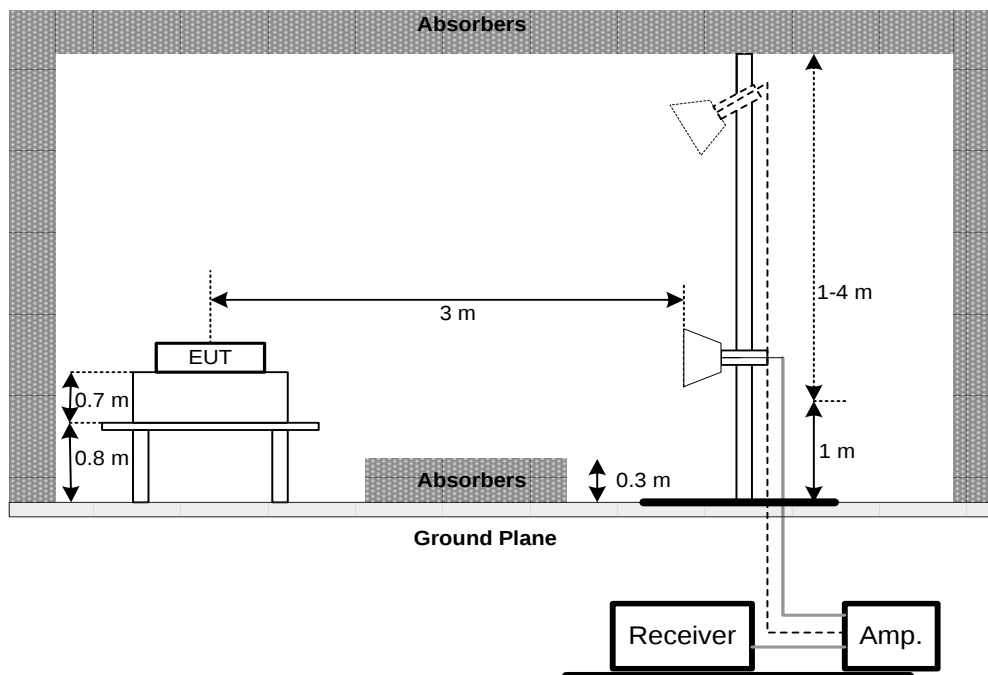
No deviation

4.2.4 TEST SETUP

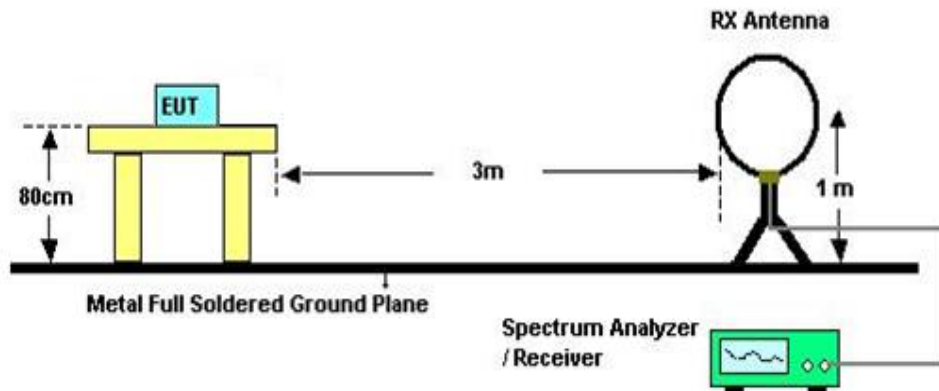
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: DC 5V

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 (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/ RSS-GEN and RSS-247			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2) RSS-GEN section 6.6 RSS-247 5.2 (1)	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: DC 5V

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/ RSS-247				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-247 5.4 (4)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

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

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- 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: DC 5V

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 / RSS-247				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e) RSS-247 5.2 (2)	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: DC 5V

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	Sep. 04, 2017
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 04, 2017
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 26, 2017
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF780208416	N/A
7	Antenna	ETS	3115	00075789	Mar. 27, 2017
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2017
9	Test Cable	emci	EMC104-SM-SM-10000(1GHz-26.5GHz)	C-68	Jun. 26, 2017
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 06, 2017
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Sep. 04, 2017
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Sep. 04, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Sep. 04, 2017

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

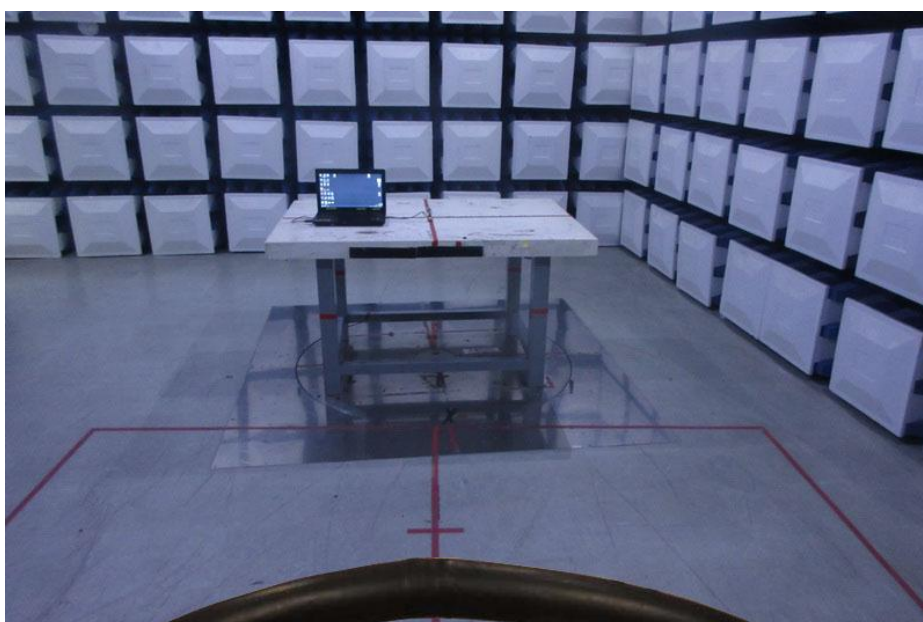
10. EUT TEST PHOTO

Conducted Measurement Photos



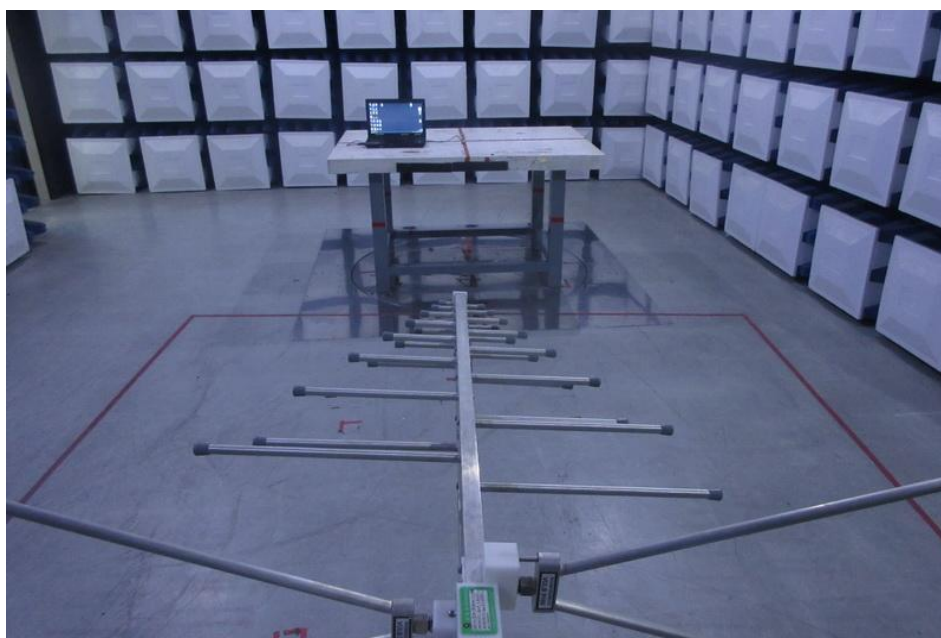
Radiated Measurement Photos

9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

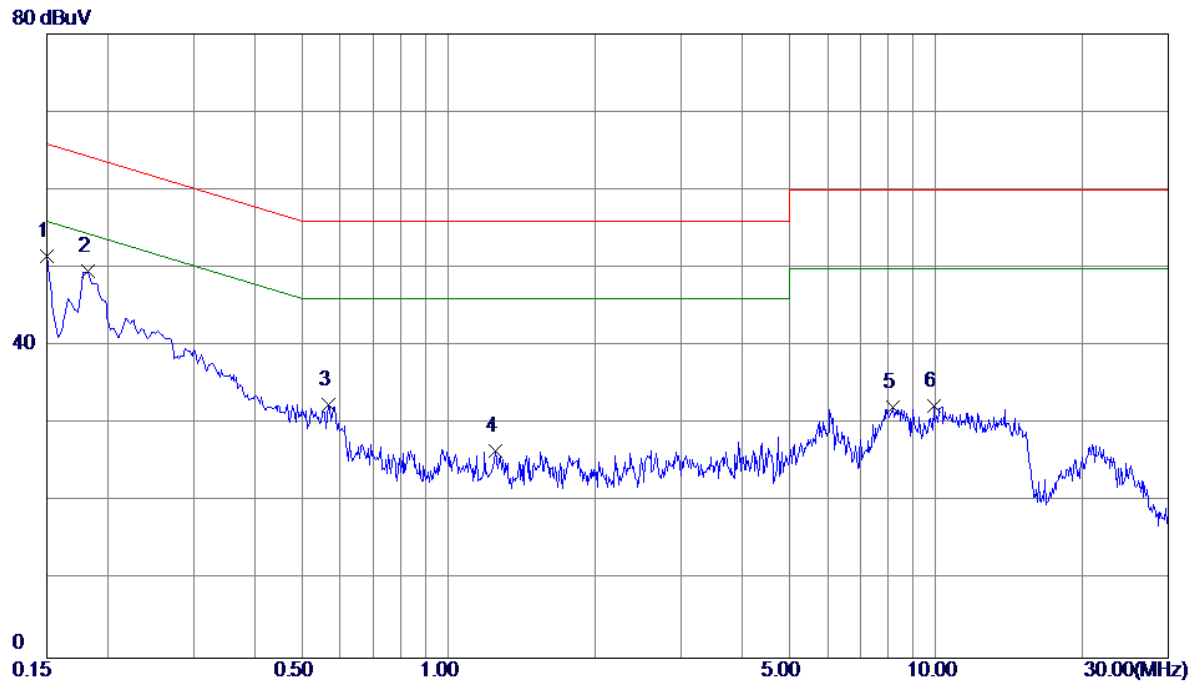
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

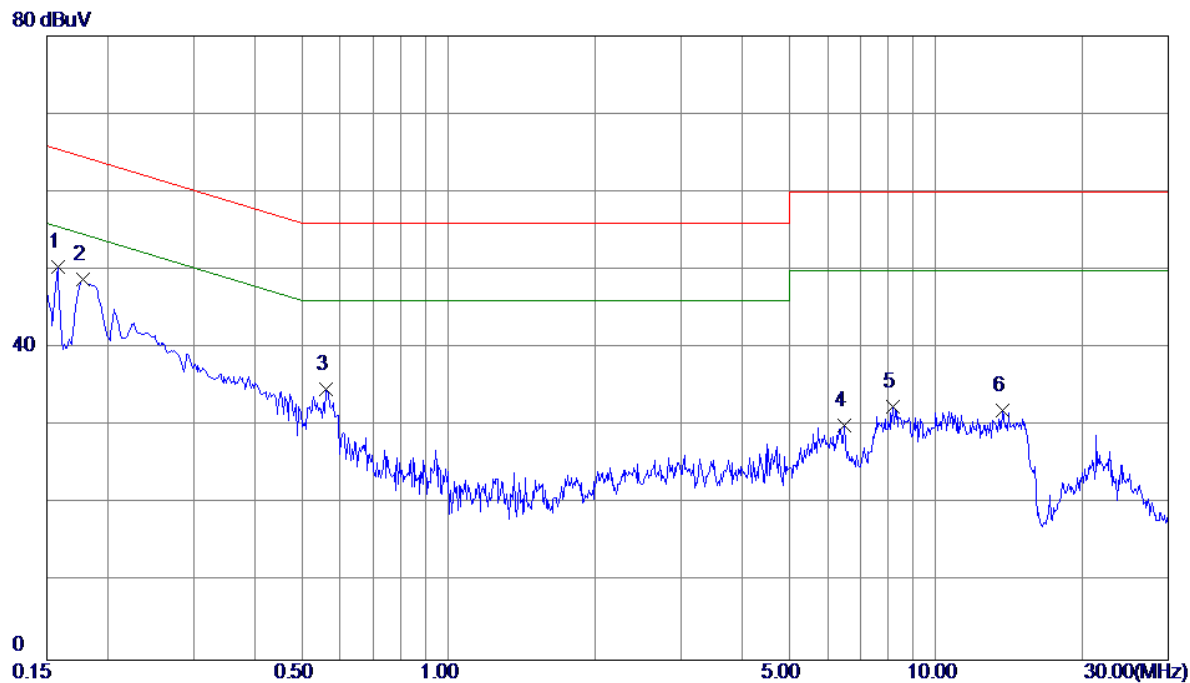
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	41.95	9.62	51.57	66.00	-14.43	Peak	
2	0.1819	39.94	9.63	49.57	64.40	-14.83	Peak	
3	0.5660	22.64	9.81	32.45	56.00	-23.55	Peak	
4	1.2460	16.60	9.95	26.55	56.00	-29.45	Peak	
5	8.1620	22.27	9.86	32.13	60.00	-27.87	Peak	
6	9.9100	22.25	10.00	32.25	60.00	-27.75	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 *	0.1580	40.92	9.52	50.44	65.57	-15.13	Peak	
2	0.1780	39.19	9.55	48.74	64.58	-15.84	Peak	
3	0.5620	25.02	9.64	34.66	56.00	-21.34	Peak	
4	6.4940	20.21	9.86	30.07	60.00	-29.93	Peak	
5	8.1899	22.58	9.84	32.42	60.00	-27.58	Peak	
6	13.7020	22.03	10.00	32.03	60.00	-27.97	Peak	

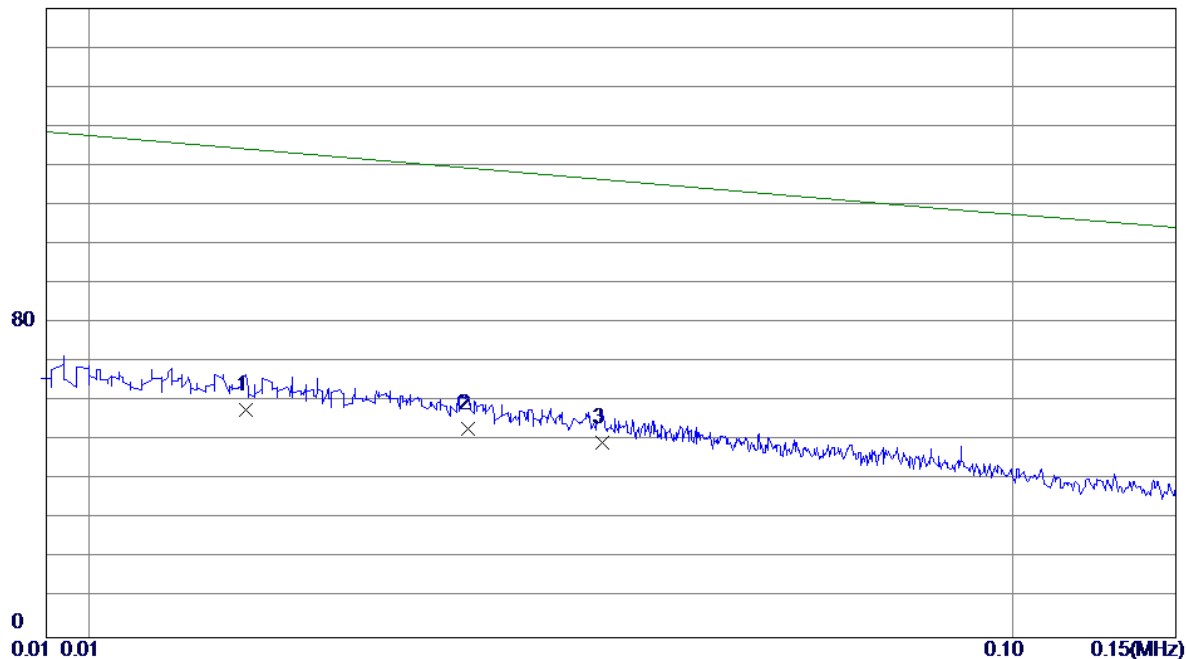
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

For Chip antenna

Test Mode: TX B MODE CHANNEL 01

Ant 0°

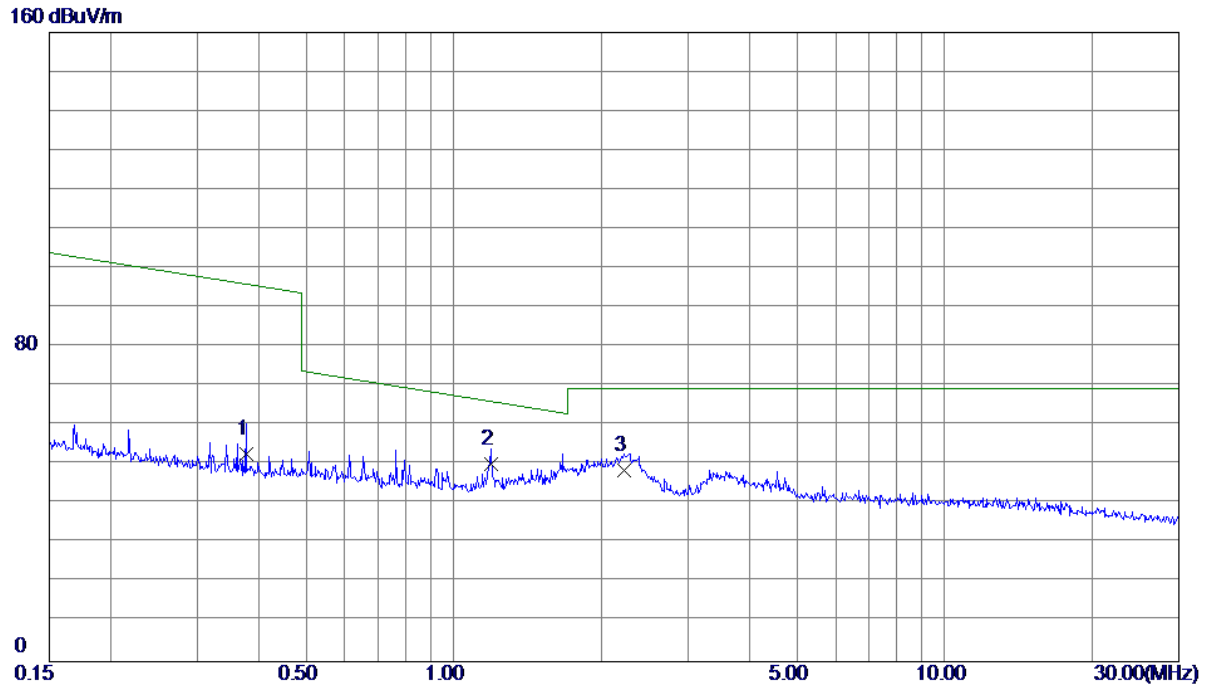
160 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0148	34.15	23.83	57.98	127.06	-69.08	AVG	
2	0.0257	30.21	22.82	53.03	124.37	-71.34	AVG	
3	0.0360	28.13	21.55	49.68	121.83	-72.15	AVG	

Test Mode: TX B MODE CHANNEL 01

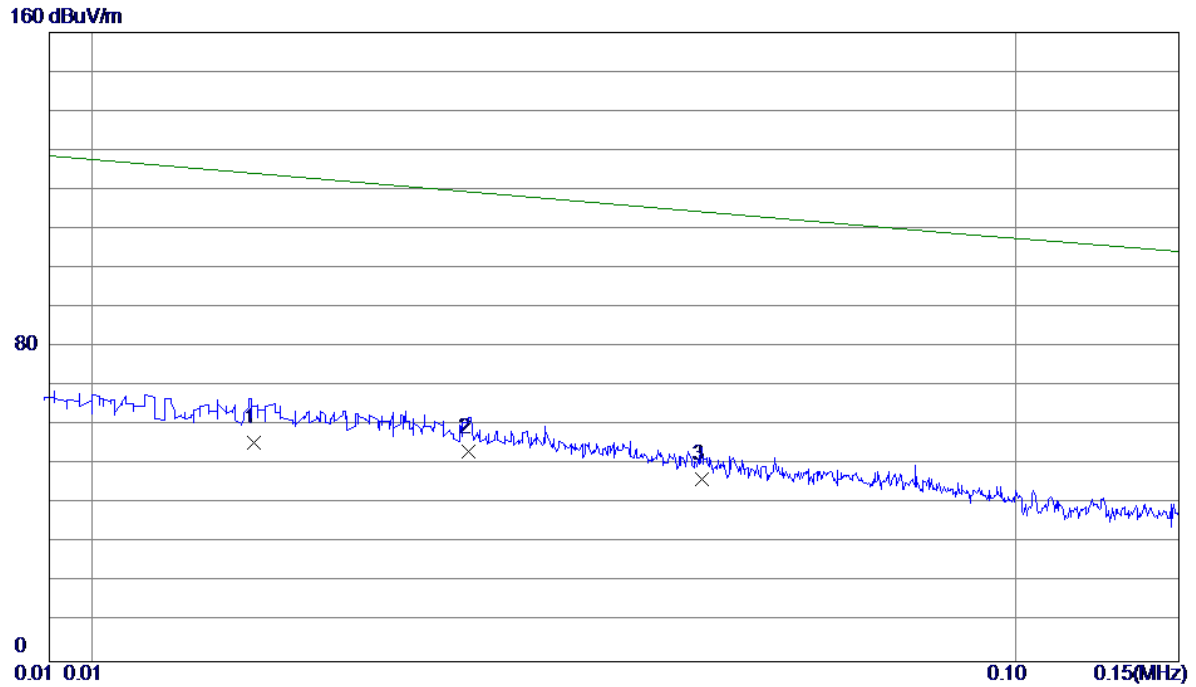
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3769	34.24	18.51	52.75	97.66	-44.91	AVG	
2 *	1.1906	32.51	17.72	50.23	67.55	-17.32	QP	
3	2.2250	31.12	17.62	48.74	69.54	-20.80	QP	

Test Mode: TX B MODE CHANNEL 01

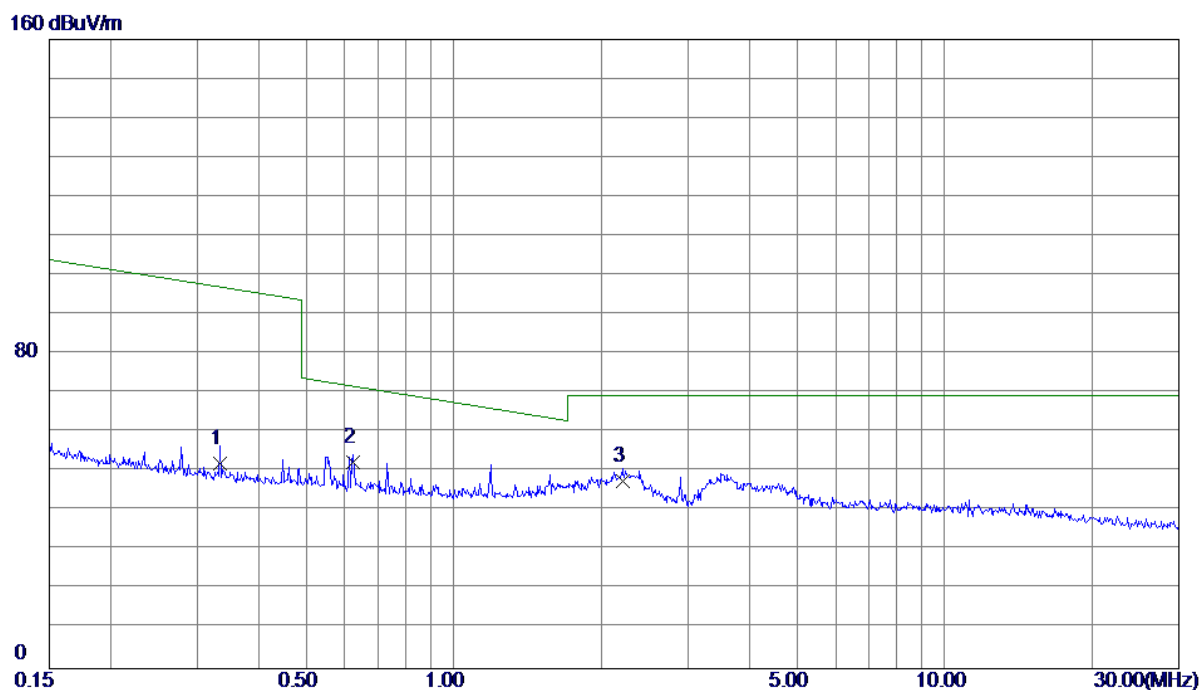
Ant 90°



No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	0.0150	31.74	23.82	55.56	127.01	-71.45	AVG	
2 *	0.0256	30.45	22.83	53.28	124.40	-71.12	AVG	
3	0.0458	25.99	20.34	46.33	119.41	-73.08	AVG	

Test Mode: TX B MODE CHANNEL 01

Ant 90°

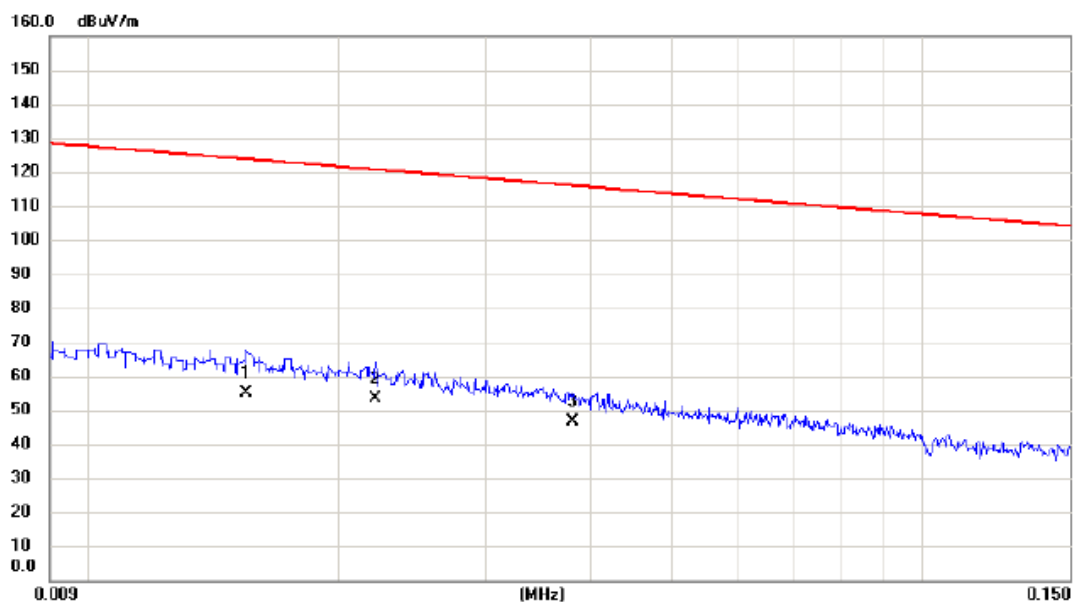


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3337	33.45	18.56	52.01	99.14	-47.13	AVG	
2 *	0.6238	34.13	18.42	52.55	72.61	-20.06	QP	
3	2.2130	30.11	17.63	47.74	69.54	-21.80	QP	

For Dipole antenna

Test Mode: TX B MODE CHANNEL 01

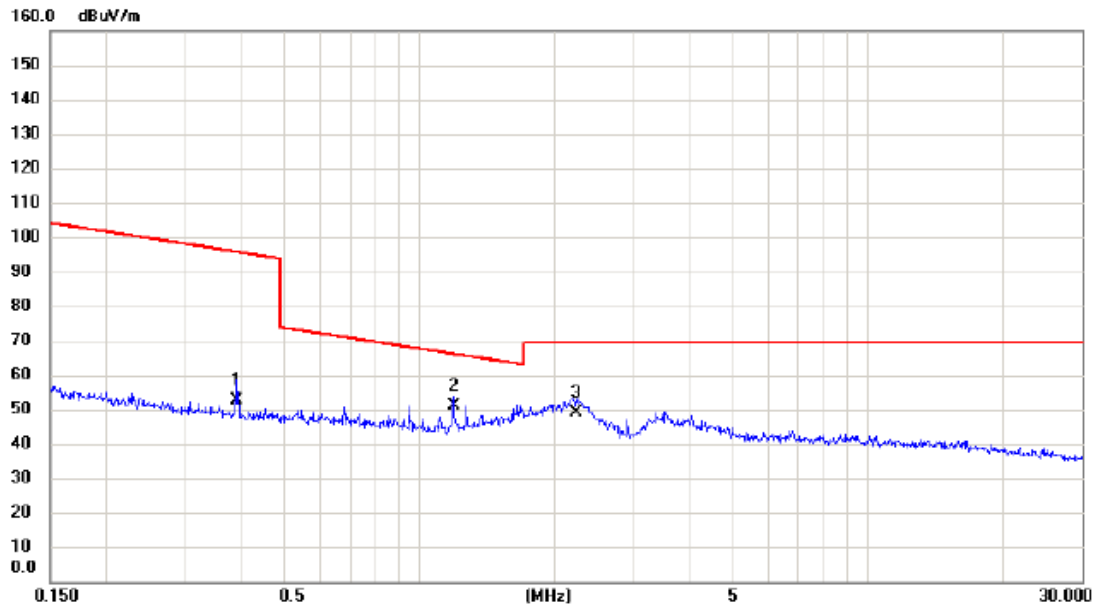
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.015	31.23	23.79	55.02	123.80	-68.78	AVG	
2	*	0.022	30.33	23.26	53.59	120.72	-67.13	AVG	
3		0.038	25.13	21.29	46.42	115.99	-69.57	AVG	

Test Mode: TX B MODE CHANNEL 01

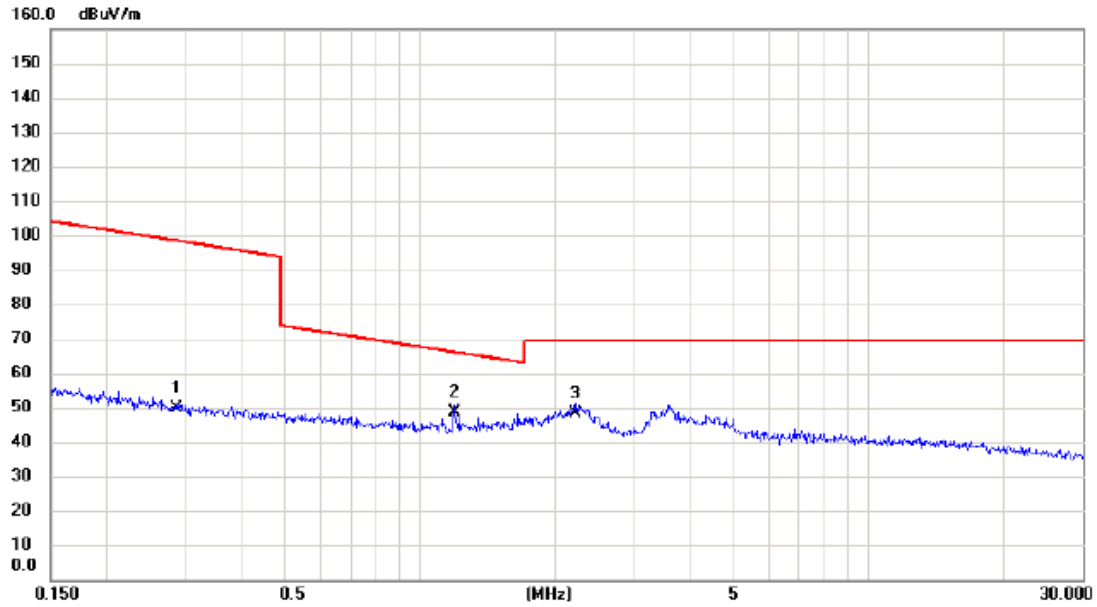
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.391	34.14	18.49	52.63	95.75	-43.12	AVG	
2	*	1.191	33.12	17.72	50.84	66.09	-15.25	QP	
3		2.237	31.47	17.60	49.07	69.54	-20.47	QP	

Test Mode: TX B MODE CHANNEL 01

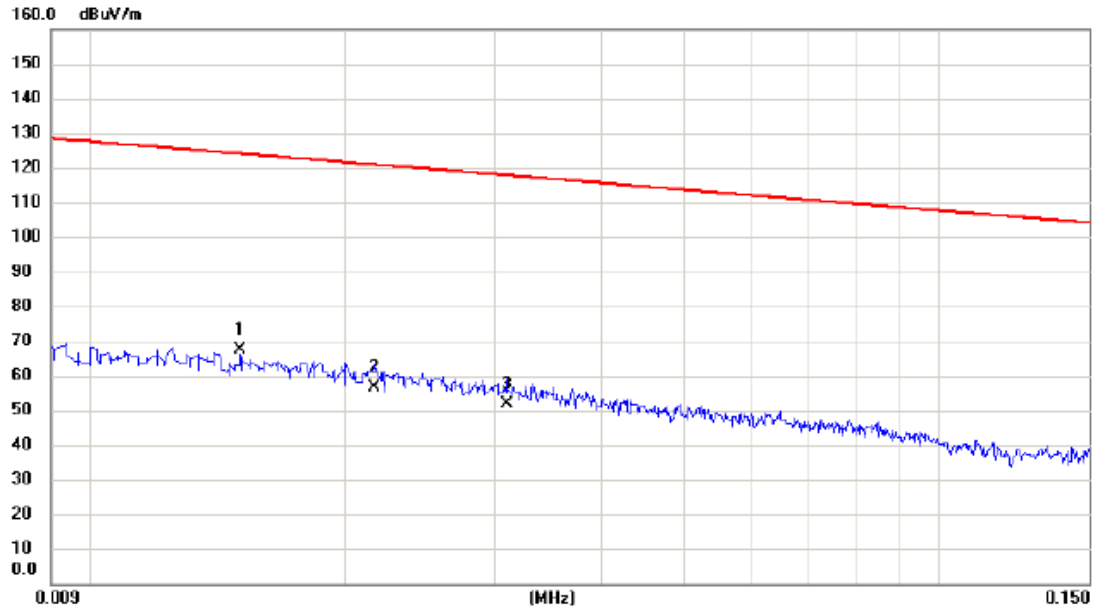
Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.286	31.22	18.61	49.83	98.47	-48.64	AVG	
2	*	1.191	31.07	17.72	48.79	66.09	-17.30	QP	
3		2.225	30.76	17.62	48.38	69.54	-21.16	QP	

Test Mode: TX B MODE CHANNEL 01

Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.015	43.61	23.82	67.43	124.08	-56.65	AVG	
2		0.022	33.42	23.32	56.74	120.92	-64.18	AVG	
3		0.031	29.64	22.16	51.80	117.78	-65.98	AVG	

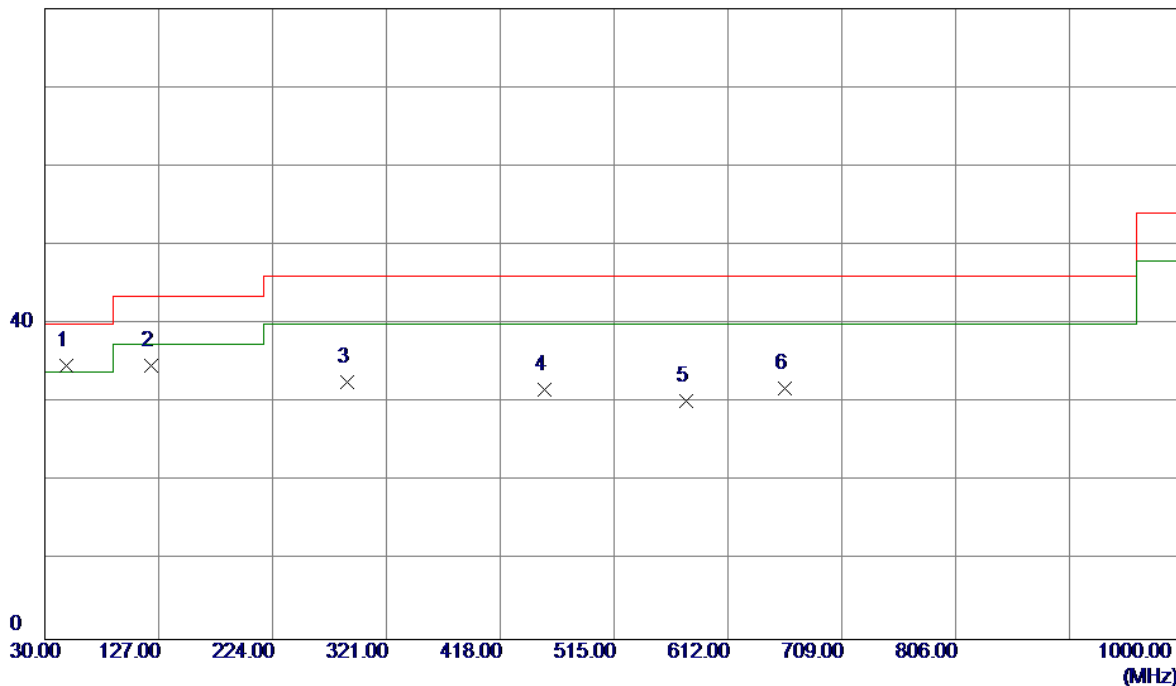
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

For Chip antenna

Test Mode: TX B MODE CHANNEL 01

Vertical

80 dBuV/m

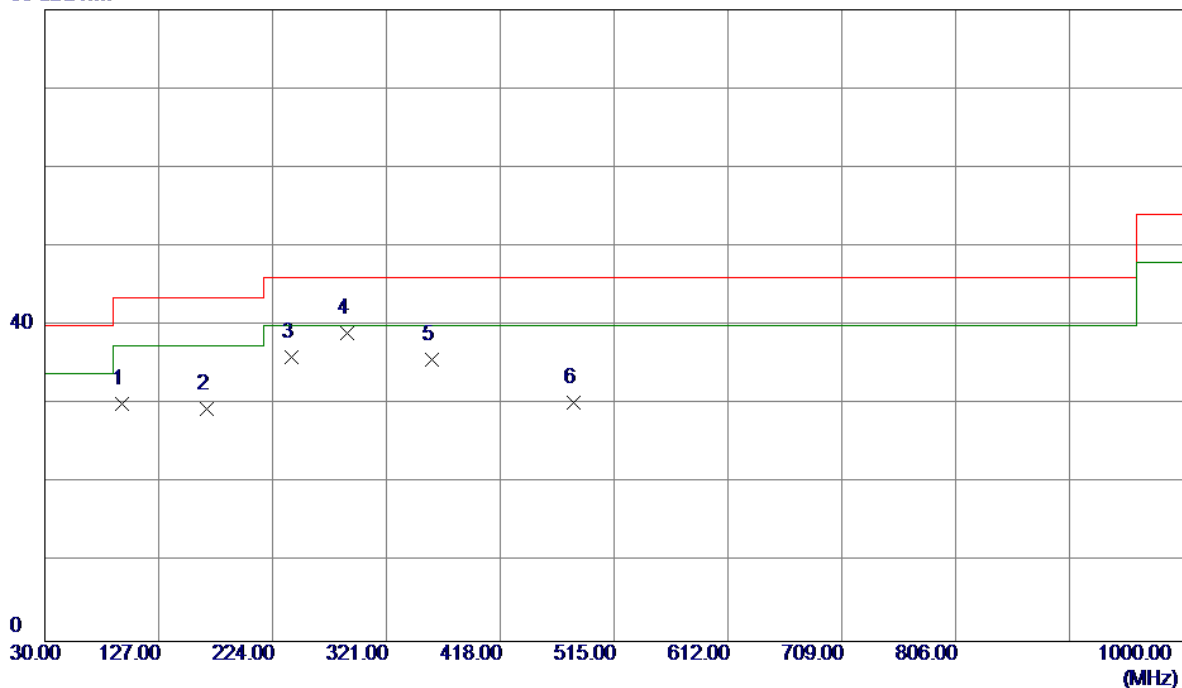


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	47.9450	47.16	-12.44	34.72	40.00	-5.28	Peak	
2	120.2100	47.24	-12.57	34.67	43.50	-8.83	Peak	
3	288.0200	42.92	-10.32	32.60	46.00	-13.40	Peak	
4	455.8300	38.80	-7.14	31.66	46.00	-14.34	Peak	
5	576.1100	34.94	-4.64	30.30	46.00	-15.70	Peak	
6	660.0150	33.27	-1.48	31.79	46.00	-14.21	Peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

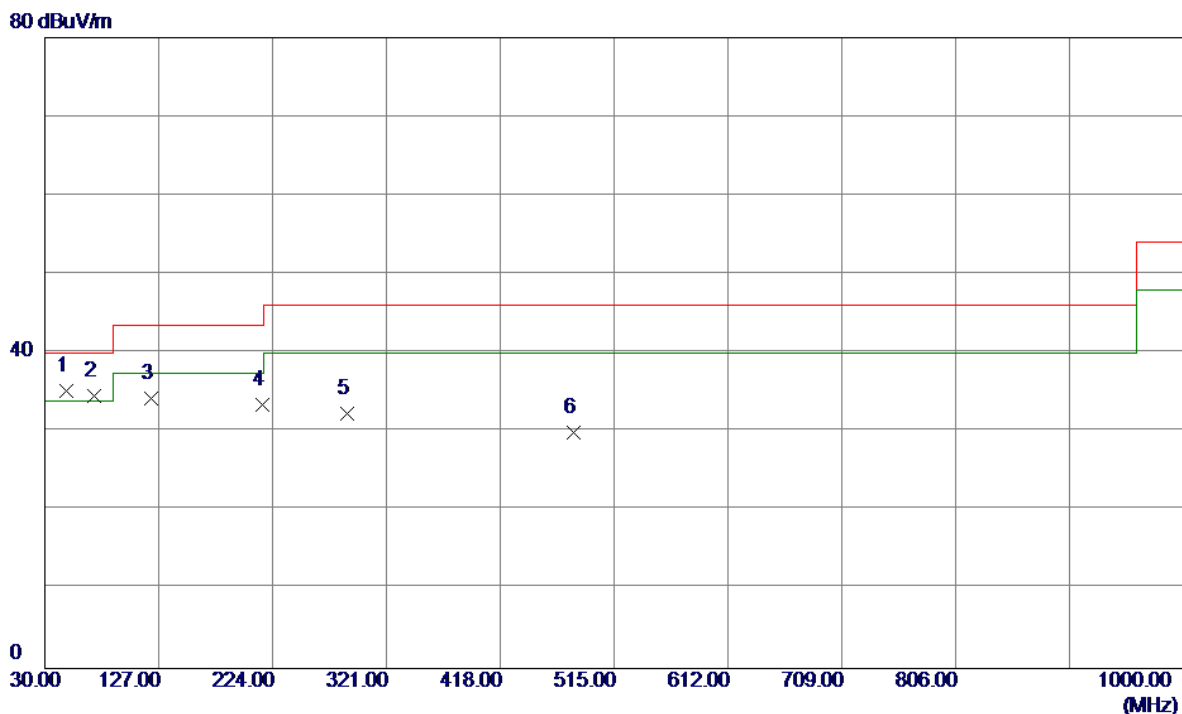
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	95.9600	46.04	-15.93	30.11	43.50	-13.39	Peak	
2	168.2250	40.40	-11.03	29.37	43.50	-14.13	Peak	
3	240.0050	49.34	-13.38	35.96	46.00	-10.04	Peak	
4 *	288.0200	49.35	-10.32	39.03	46.00	-6.97	Peak	
5	359.8000	45.83	-10.07	35.76	46.00	-10.24	Peak	
6	480.0800	37.61	-7.42	30.19	46.00	-15.81	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

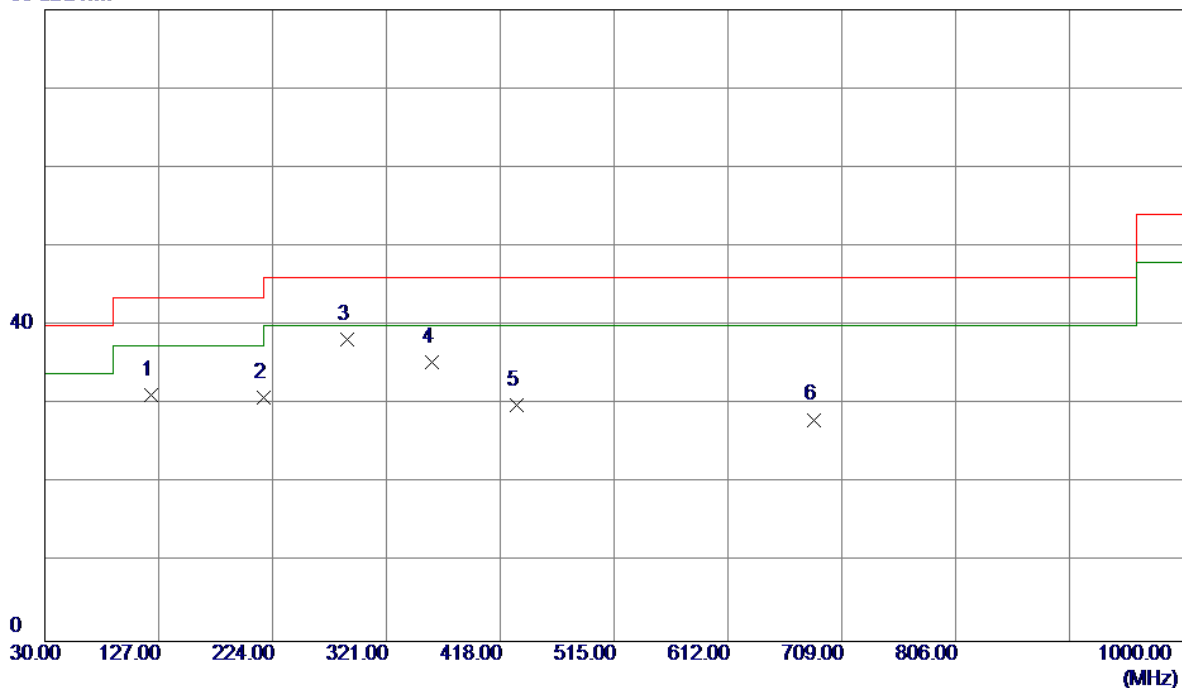


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	47.9450	47.64	-12.44	35.20	40.00	-4.80	Peak	
2	72.1950	50.20	-15.64	34.56	40.00	-5.44	Peak	
3	120.2100	46.80	-12.57	34.23	43.50	-9.27	Peak	
4	215.7550	47.44	-14.02	33.42	43.50	-10.08	Peak	
5	288.0200	42.70	-10.32	32.38	46.00	-13.62	Peak	
6	480.0800	37.28	-7.42	29.86	46.00	-16.14	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

80 dBuV/m

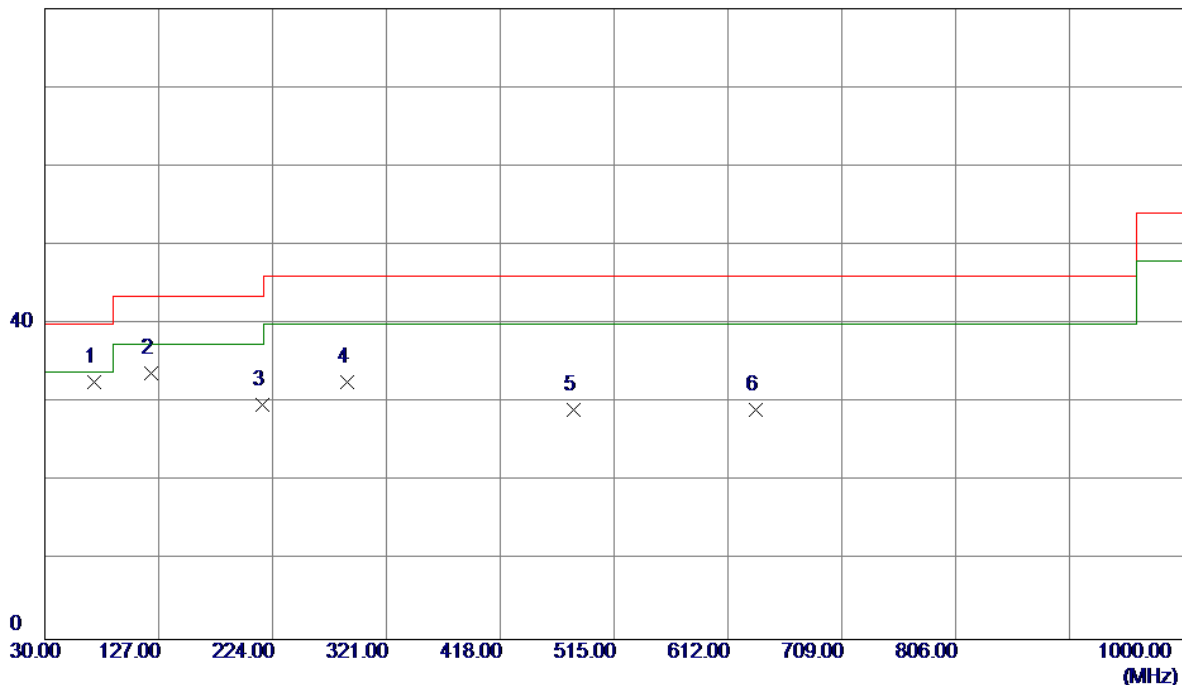


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	120. 2100	43. 78	-12. 57	31. 21	43. 50	-12. 29	Peak	
2	216. 2400	44. 91	-14. 01	30. 90	46. 00	-15. 10	Peak	
3 *	288. 0200	48. 62	-10. 32	38. 30	46. 00	-7. 70	Peak	
4	359. 8000	45. 41	-10. 07	35. 34	46. 00	-10. 66	Peak	
5	432. 0650	37. 11	-7. 12	29. 99	46. 00	-16. 01	Peak	
6	685. 2350	29. 04	-0. 96	28. 08	46. 00	-17. 92	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

80 dBuV/m

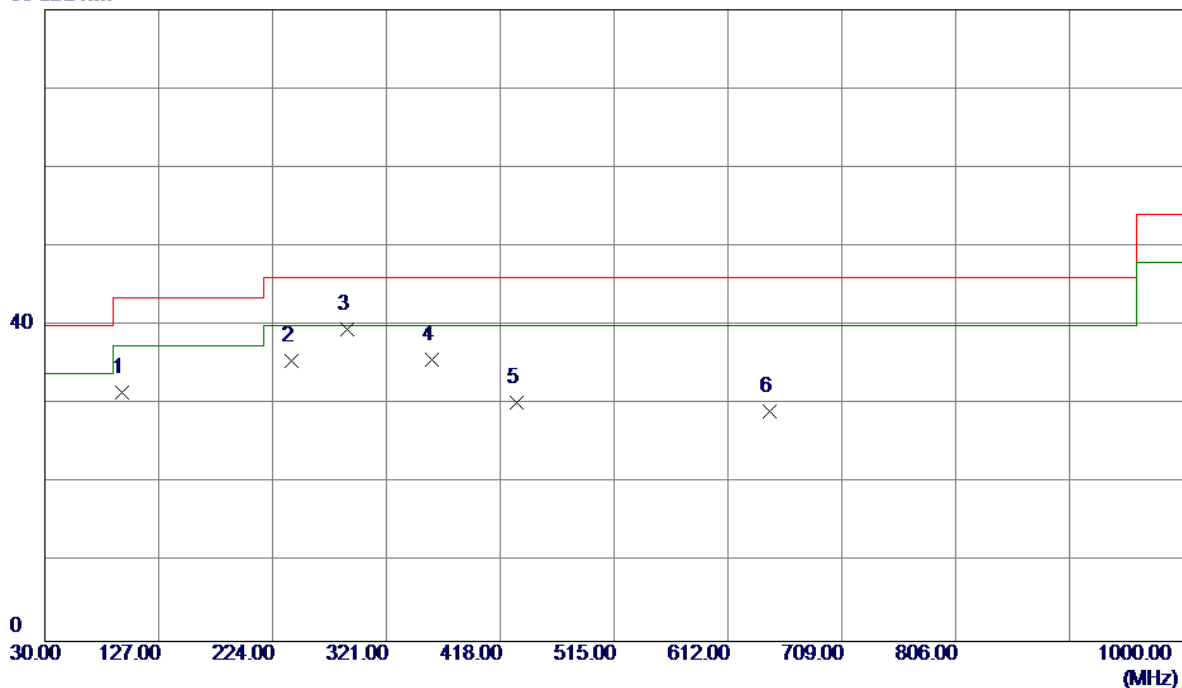


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	72.1950	48.34	-15.64	32.70	40.00	-7.30	Peak	
2	120.2100	46.37	-12.57	33.80	43.50	-9.70	Peak	
3	215.7550	43.80	-14.02	29.78	43.50	-13.72	Peak	
4	288.0200	42.89	-10.32	32.57	46.00	-13.43	Peak	
5	480.0800	36.51	-7.42	29.09	46.00	-16.91	Peak	
6	635.7650	31.64	-2.58	29.06	46.00	-16.94	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

80 dBuV/m



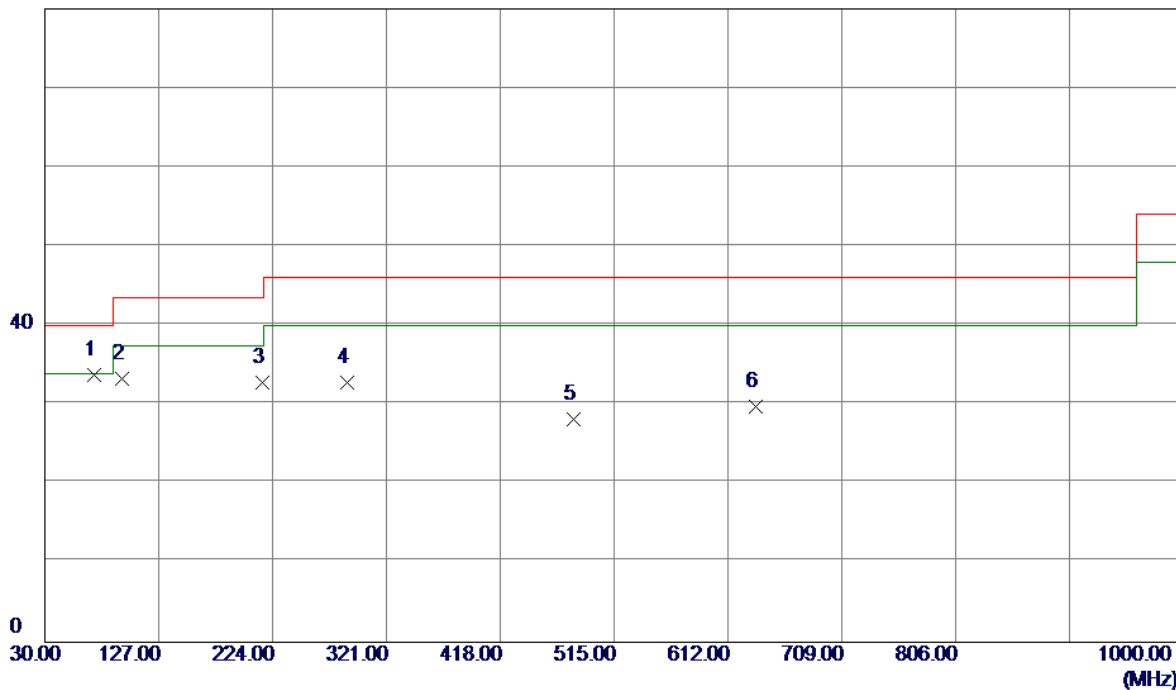
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	95.9600	47.52	-15.93	31.59	43.50	-11.91	Peak	
2	240.0050	48.90	-13.38	35.52	46.00	-10.48	Peak	
3 *	288.0200	49.77	-10.32	39.45	46.00	-6.55	Peak	
4	359.8000	45.68	-10.07	35.61	46.00	-10.39	Peak	
5	432.0650	37.42	-7.12	30.30	46.00	-15.70	Peak	
6	647.8900	30.94	-1.82	29.12	46.00	-16.88	Peak	

For Dipole antenna

Test Mode: TX B MODE CHANNEL 01

Vertical

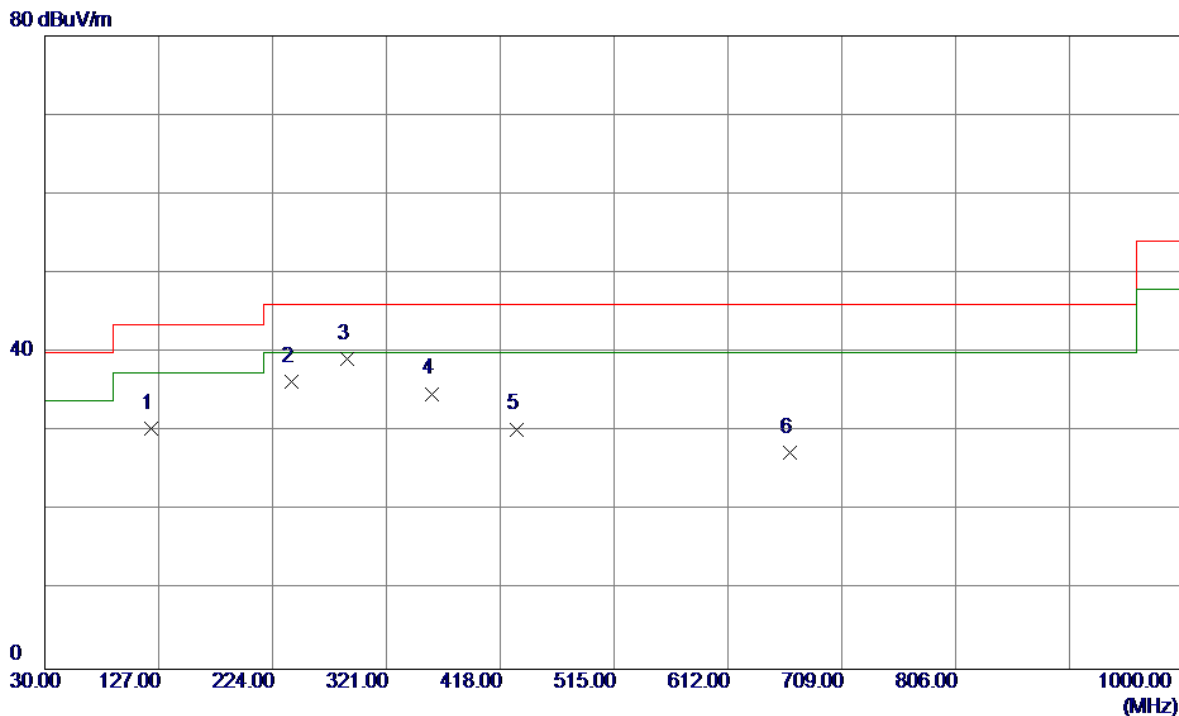
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	72.1950	49.36	-15.64	33.72	40.00	-6.28	Peak	
2	95.9600	49.23	-15.93	33.30	43.50	-10.20	Peak	
3	215.7550	46.89	-14.02	32.87	43.50	-10.63	Peak	
4	288.0200	43.12	-10.32	32.80	46.00	-13.20	Peak	
5	480.0800	35.51	-7.42	28.09	46.00	-17.91	Peak	
6	635.7650	32.38	-2.58	29.80	46.00	-16.20	Peak	

Test Mode:	TX B MODE CHANNEL 01
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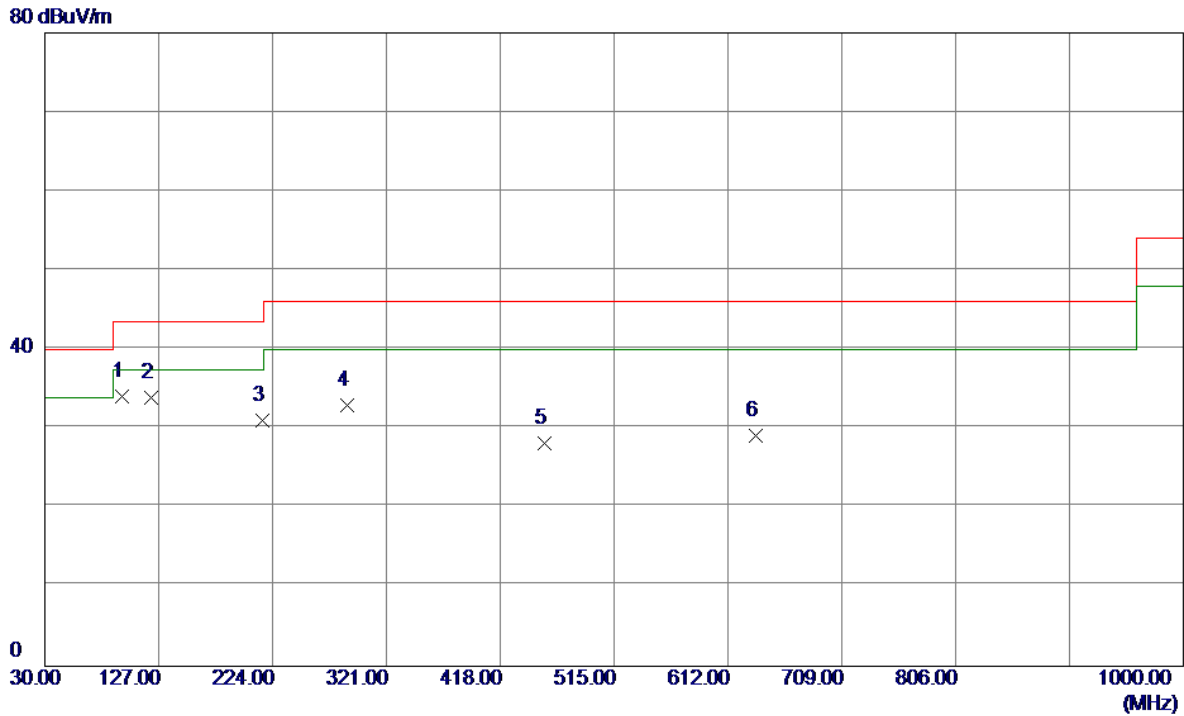
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	120.2100	43.00	-12.57	30.43	43.50	-13.07	Peak	
2	240.0050	49.69	-13.38	36.31	46.00	-9.69	Peak	
3 *	288.0200	49.51	-10.32	39.19	46.00	-6.81	Peak	
4	359.8000	44.87	-10.07	34.80	46.00	-11.20	Peak	
5	432.0650	37.44	-7.12	30.32	46.00	-15.68	Peak	
6	664.8650	28.72	-1.38	27.34	46.00	-18.66	Peak	

Test Mode: TX B MODE CHANNEL 06

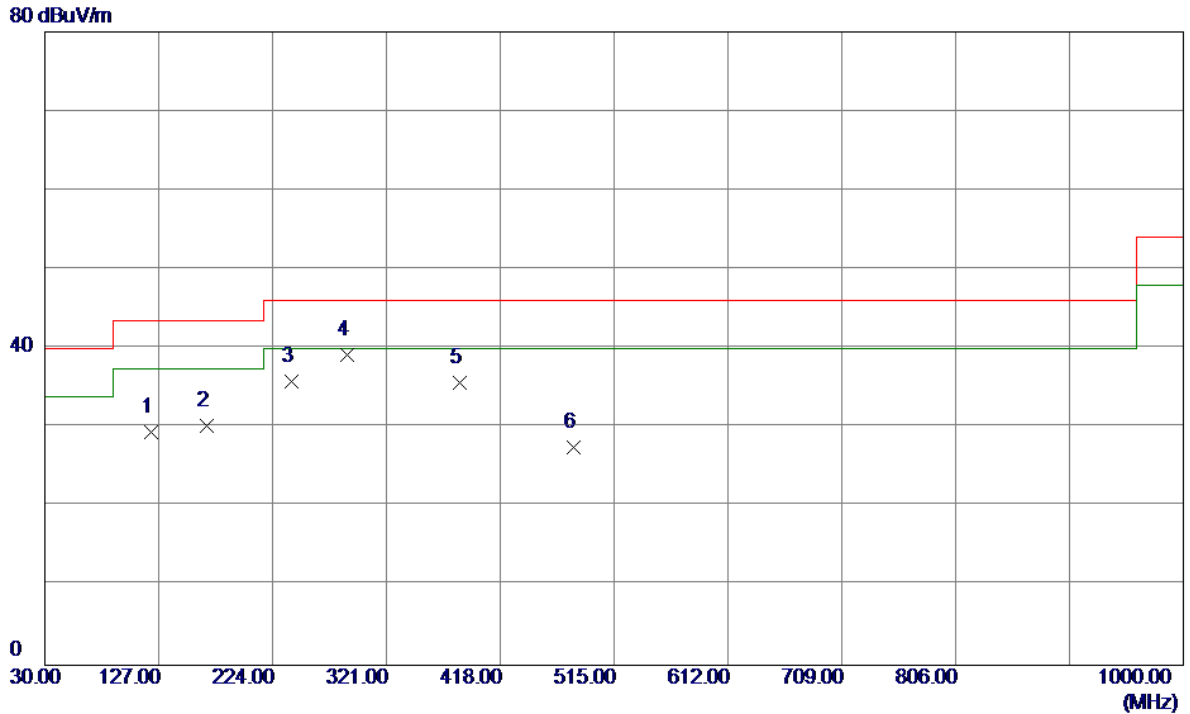
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	95.9600	49.97	-15.93	34.04	43.50	-9.46	Peak	
2	120.2100	46.51	-12.57	33.94	43.50	-9.56	Peak	
3	215.7550	45.10	-14.02	31.08	43.50	-12.42	Peak	
4	288.0200	43.22	-10.32	32.90	46.00	-13.10	Peak	
5	455.8300	35.29	-7.14	28.15	46.00	-17.85	Peak	
6	635.7650	31.67	-2.58	29.09	46.00	-16.91	Peak	

Test Mode: TX B MODE CHANNEL 06

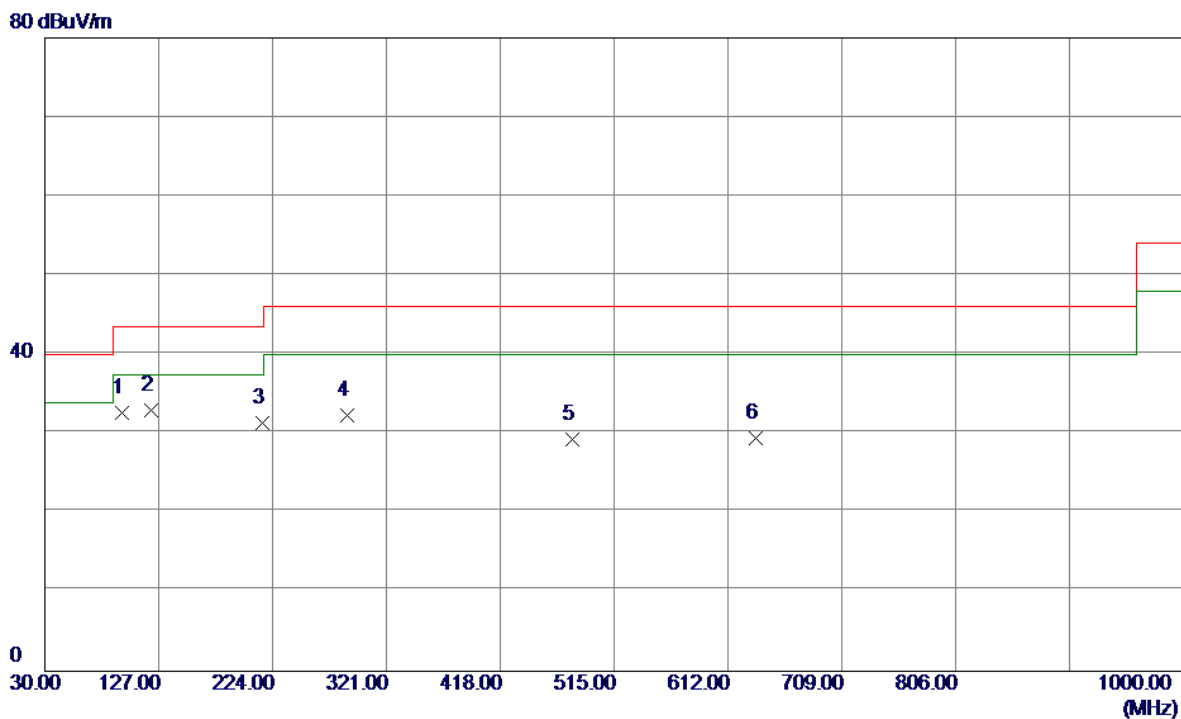
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	120.2100	42.02	-12.57	29.45	43.50	-14.05	Peak	
2	168.2250	41.25	-11.03	30.22	43.50	-13.28	Peak	
3	240.0050	49.26	-13.38	35.88	46.00	-10.12	Peak	
4 *	288.0200	49.53	-10.32	39.21	46.00	-6.79	Peak	
5	383.5650	43.99	-8.37	35.62	46.00	-10.38	Peak	
6	480.0800	34.93	-7.42	27.51	46.00	-18.49	Peak	

Test Mode:	TX B MODE CHANNEL 11
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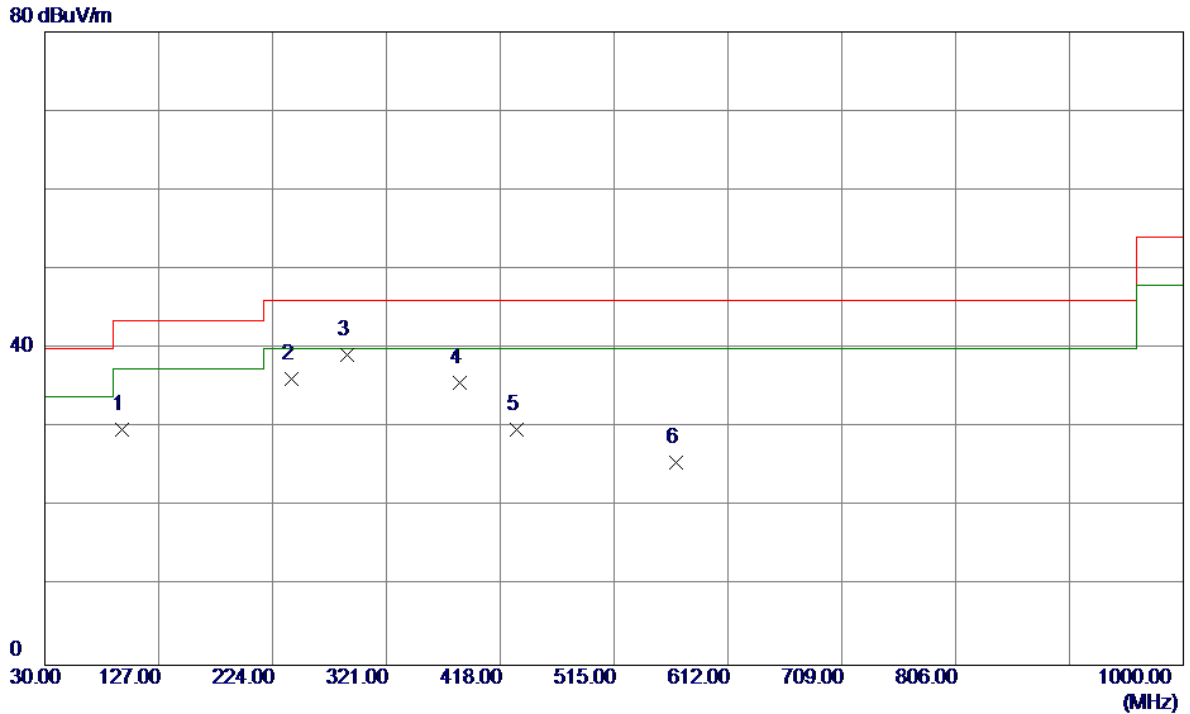
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	95.9600	48.63	-15.93	32.70	43.50	-10.80	Peak	
2 *	120.2100	45.54	-12.57	32.97	43.50	-10.53	Peak	
3	215.7550	45.45	-14.02	31.43	43.50	-12.07	Peak	
4	288.0200	42.70	-10.32	32.38	46.00	-13.62	Peak	
5	479.5950	36.69	-7.42	29.27	46.00	-16.73	Peak	
6	635.7650	31.95	-2.58	29.37	46.00	-16.63	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	95.9600	45.75	-15.93	29.82	43.50	-13.68	Peak	
2	240.0050	49.48	-13.38	36.10	46.00	-9.90	Peak	
3 *	288.0200	49.56	-10.32	39.24	46.00	-6.76	Peak	
4	383.5650	44.09	-8.37	35.72	46.00	-10.28	Peak	
5	432.0650	36.89	-7.12	29.77	46.00	-16.23	Peak	
6	567.3800	30.23	-4.58	25.65	46.00	-20.35	Peak	

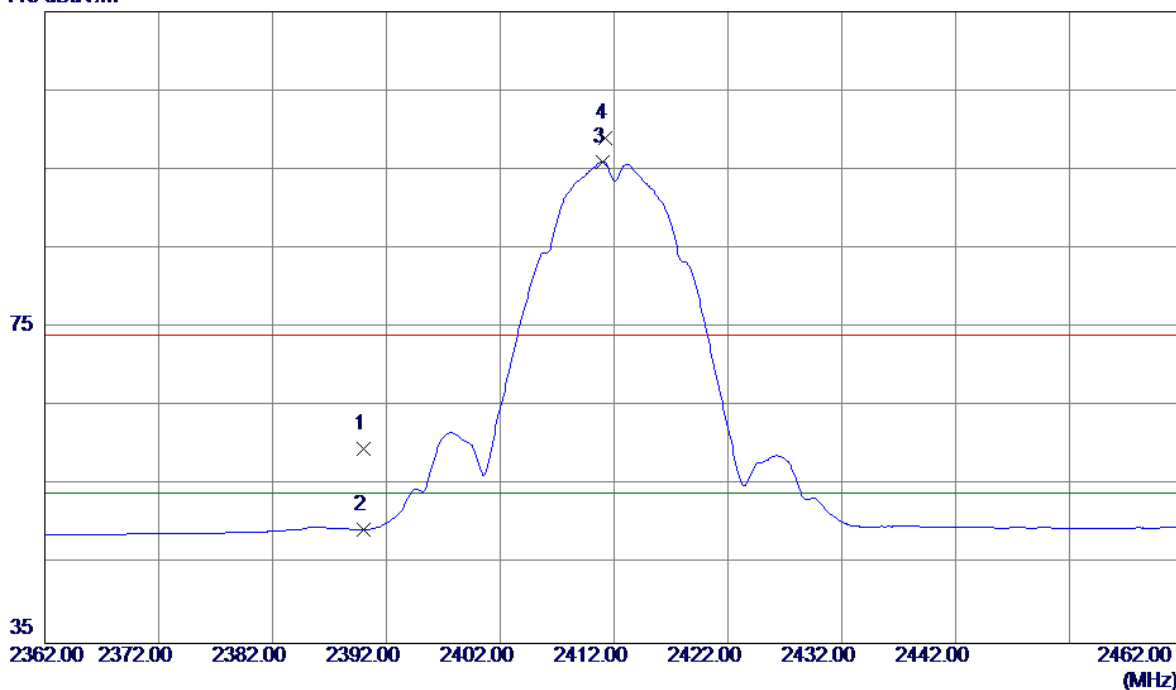
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

For Chip antenna

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

Vertical

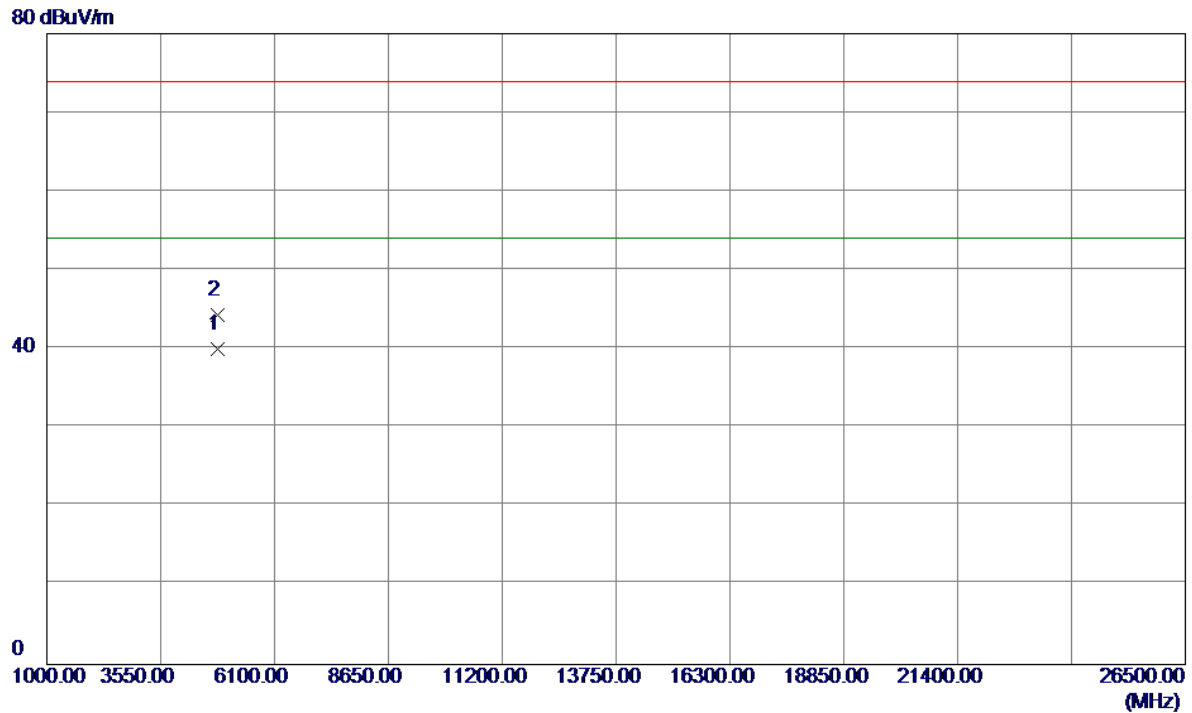
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.77	33.88	59.65	74.00	-14.35	Peak	
2	2390.0000	15.46	33.88	49.34	54.00	-4.66	AVG	
3 *	2411.0000	62.03	34.00	96.03	54.00	42.03	AVG	No Limit
4	2411.2000	65.05	34.00	99.05	74.00	25.05	Peak	No Limit

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

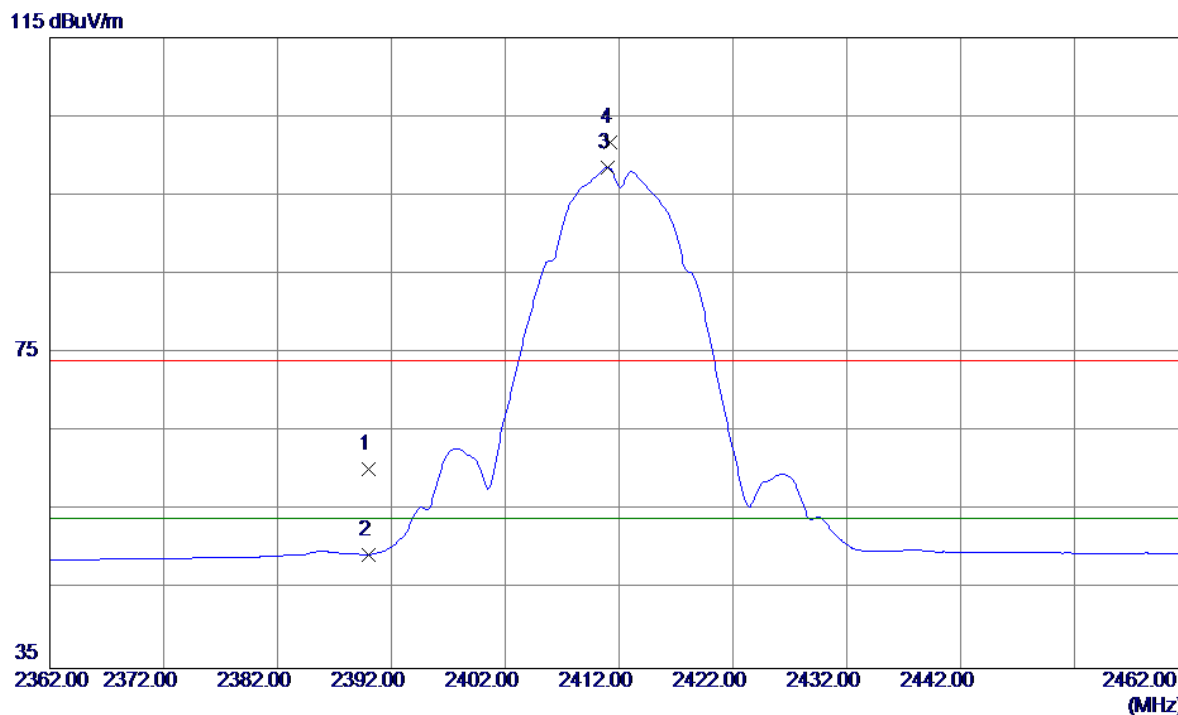
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0800	34.58	5.45	40.03	54.00	-13.97	AVG	
2	4824.0900	38.94	5.45	44.39	74.00	-29.61	Peak	

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

Horizontal

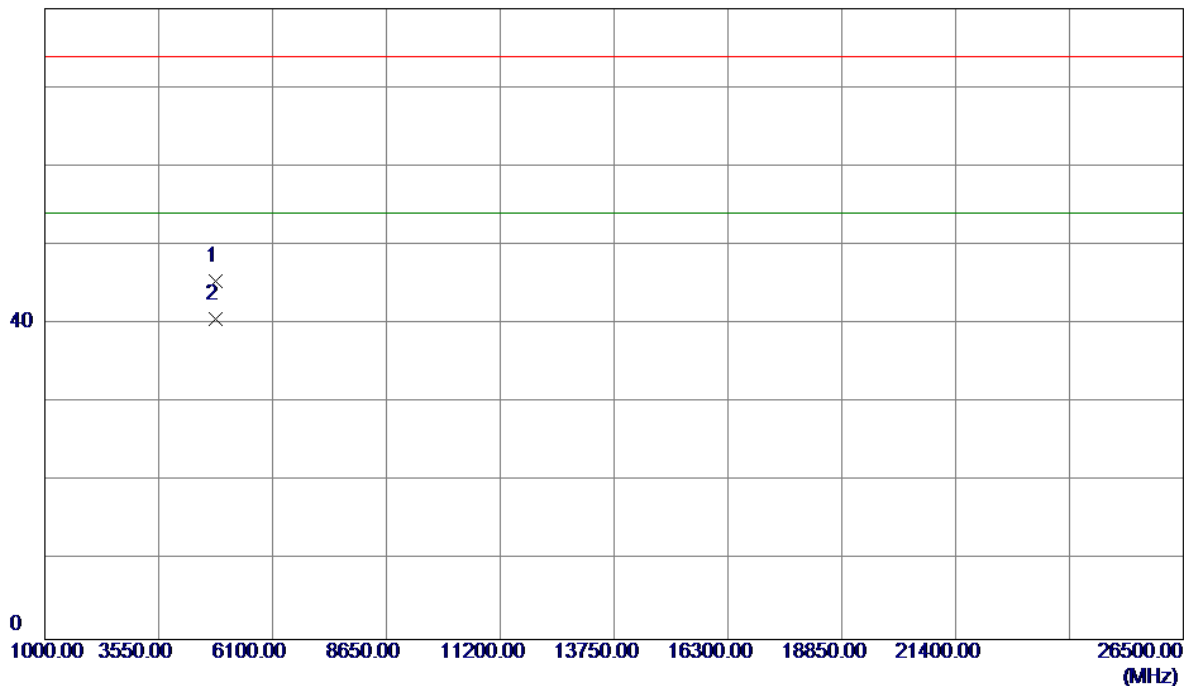


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.35	33.88	60.23	74.00	-13.77	Peak	
2	2390.0000	15.56	33.88	49.44	54.00	-4.56	AVG	
3 *	2411.0000	64.52	34.00	98.52	54.00	44.52	AVG	No Limit
4	2411.2000	67.66	34.00	101.66	74.00	27.66	Peak	No Limit

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

Horizontal

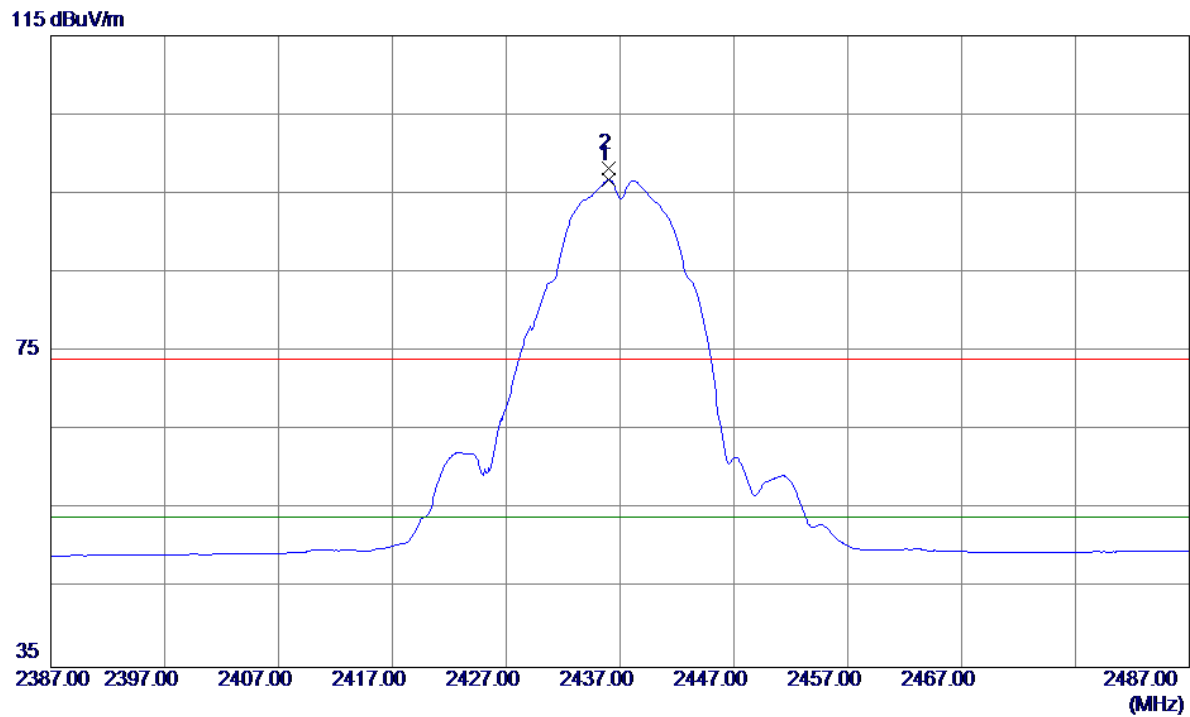
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9450	39.95	5.45	45.40	74.00	-28.60	Peak	
2 *	4824.0350	35.25	5.45	40.70	54.00	-13.30	AVG	

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

Vertical

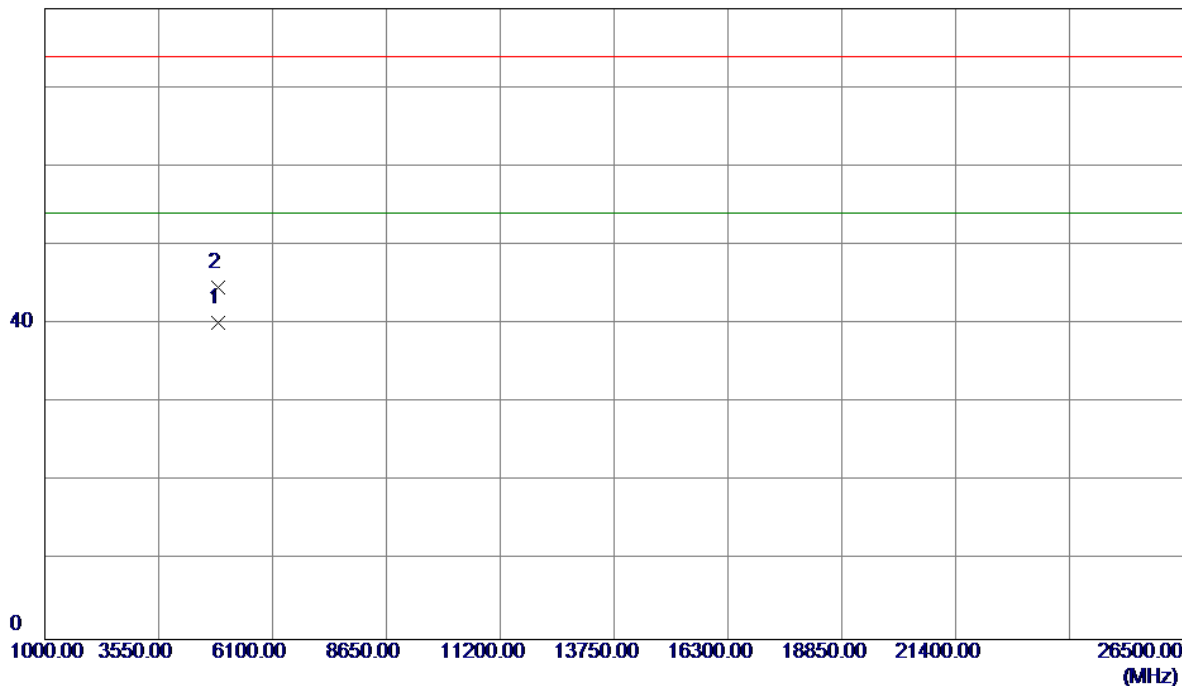


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.0000	62.59	34.14	96.73	74.00	22.73	Peak	No Limit
2 *	2436.0000	64.09	34.14	98.23	54.00	44.23	AVG	No Limit

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

Vertical

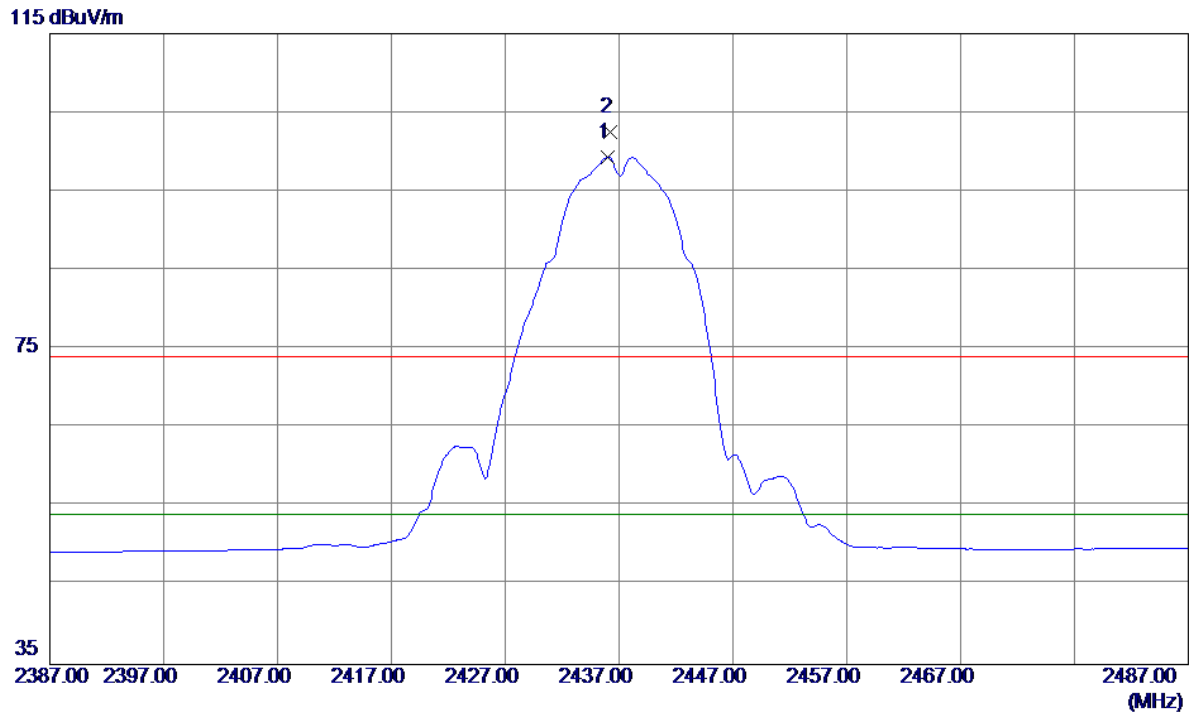
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0250	34.52	5.70	40.22	54.00	-13.78	AVG	
2	4874.1800	38.90	5.70	44.60	74.00	-29.40	Peak	

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

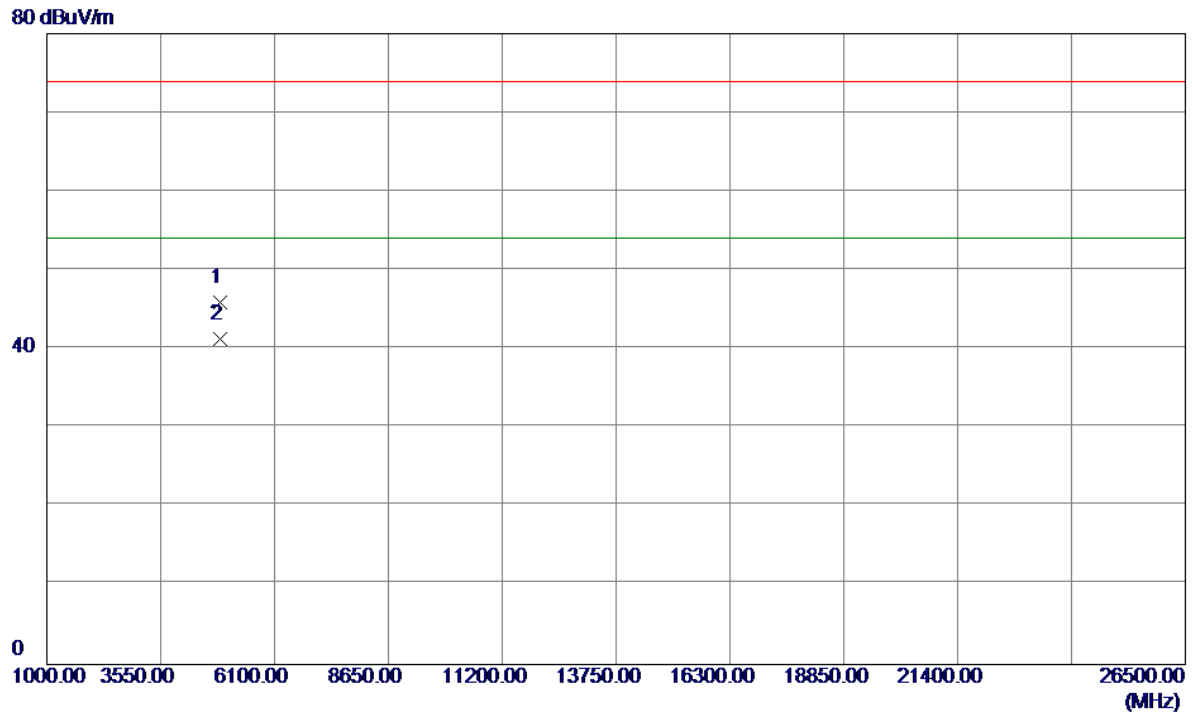
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.0000	65.19	34.14	99.33	54.00	45.33	AVG	No Limit
2	2436.2000	68.45	34.14	102.59	74.00	28.59	Peak	No Limit

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

Horizontal

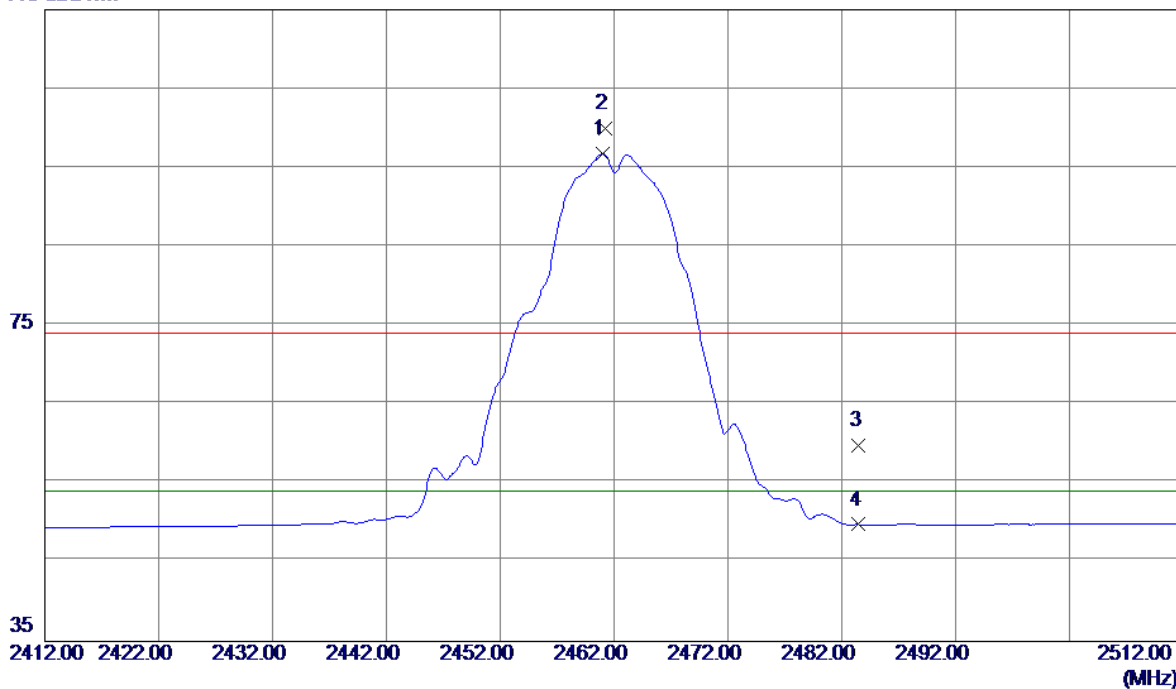


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0099	40.24	5.70	45.94	74.00	-28.06	Peak	
2 *	4874.0550	35.65	5.70	41.35	54.00	-12.65	AVG	

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

Vertical

115 dBuV/m

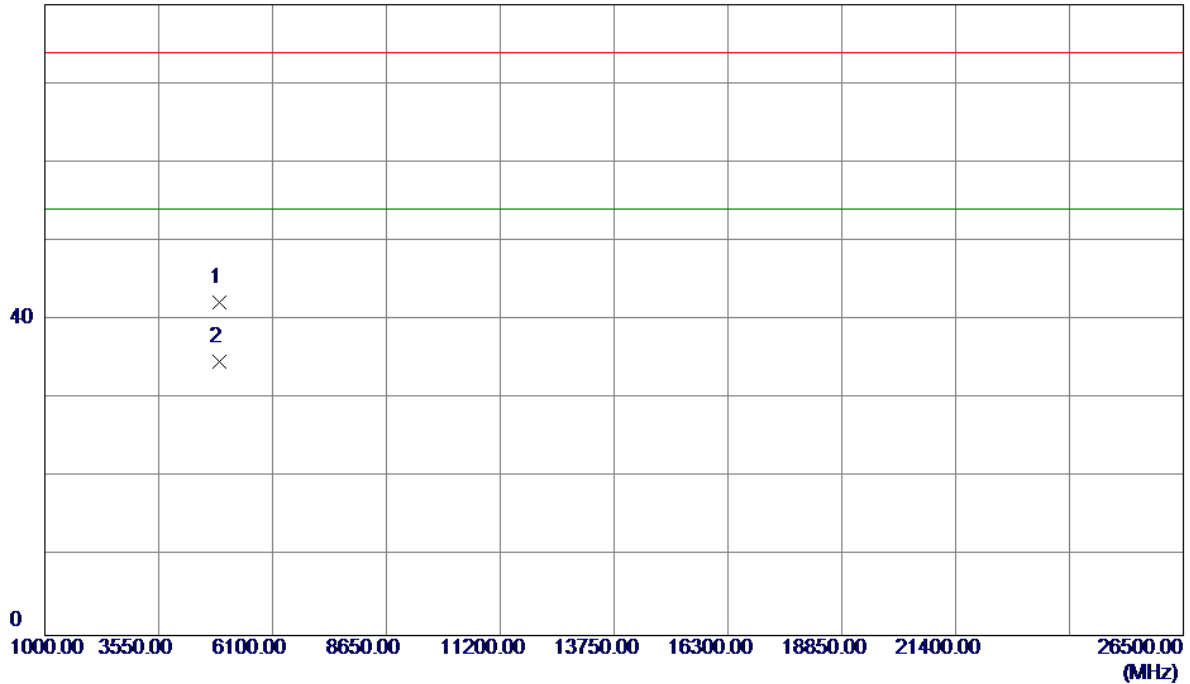


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	62.44	34.29	96.73	54.00	42.73	AVG	No Limit
2	2461.2000	65.67	34.29	99.96	74.00	25.96	Peak	No Limit
3	2483.5000	25.44	34.41	59.85	74.00	-14.15	Peak	
4	2483.5000	15.39	34.41	49.80	54.00	-4.20	AVG	

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

Vertical

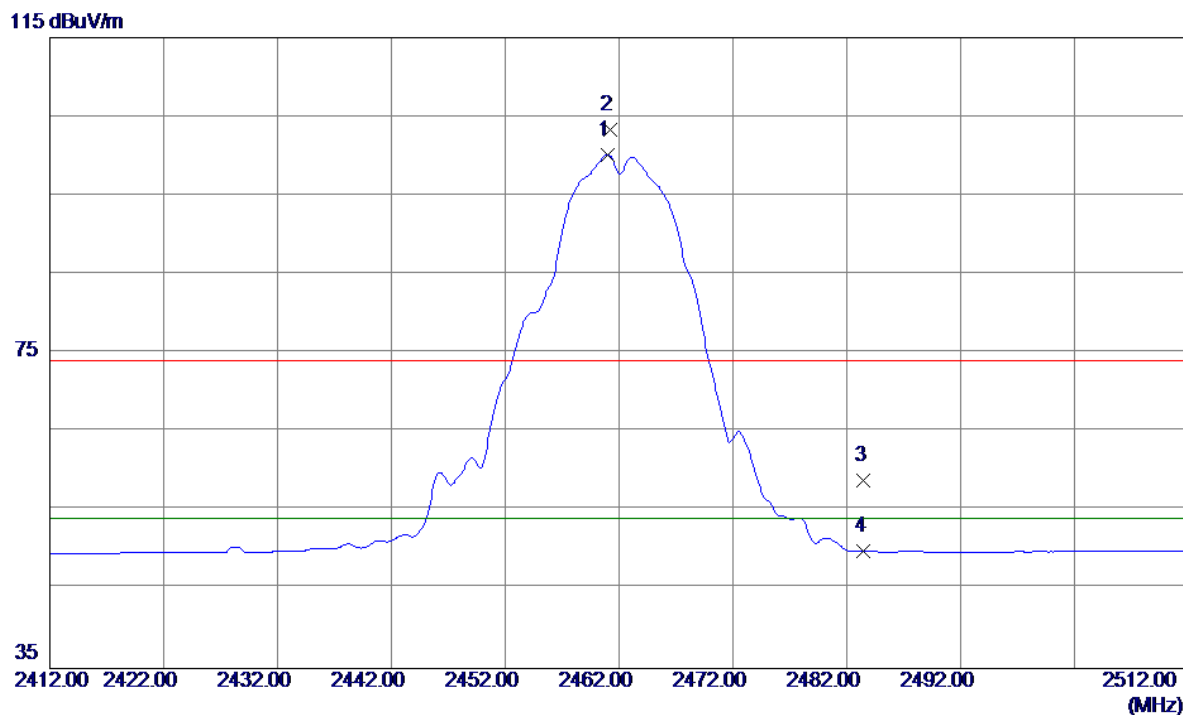
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9300	36.29	5.94	42.23	74.00	-31.77	Peak	
2 *	4924.0700	28.83	5.94	34.77	54.00	-19.23	AVG	

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

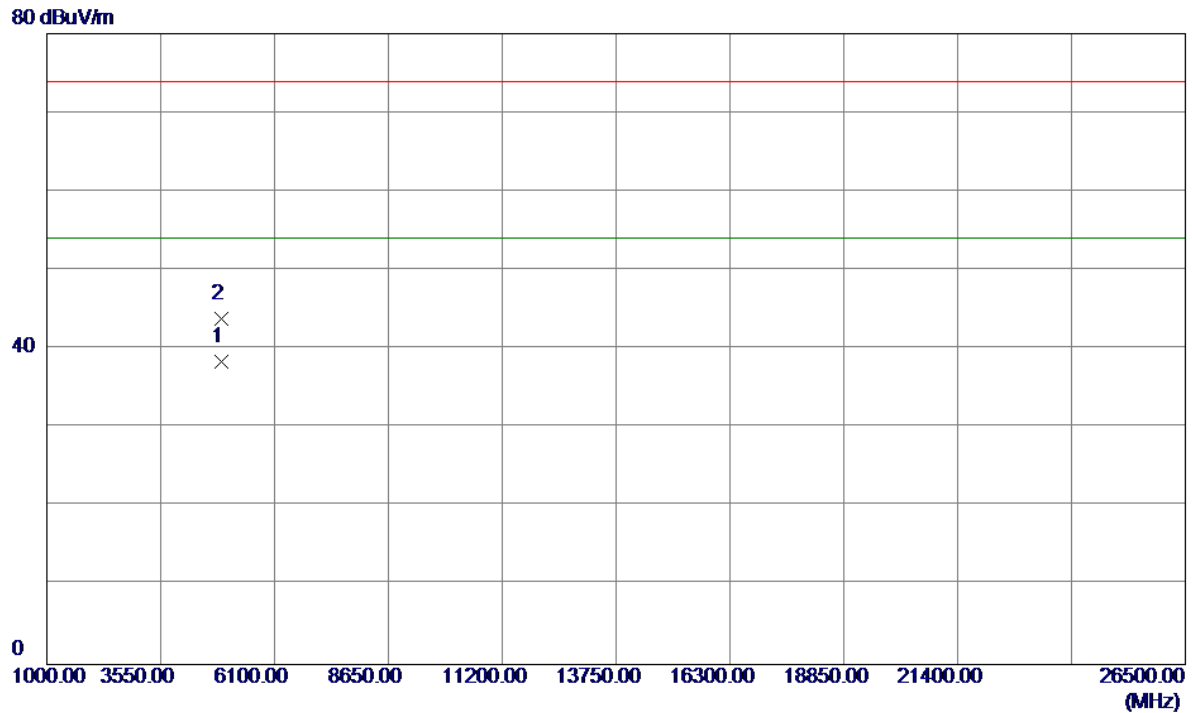
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	65.82	34.29	100.11	54.00	46.11	AVG	No Limit
2	2461.2000	68.99	34.29	103.28	74.00	29.28	Peak	No Limit
3	2483.5000	24.46	34.41	58.87	74.00	-15.13	Peak	
4	2483.5000	15.43	34.41	49.84	54.00	-4.16	AVG	

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

Horizontal

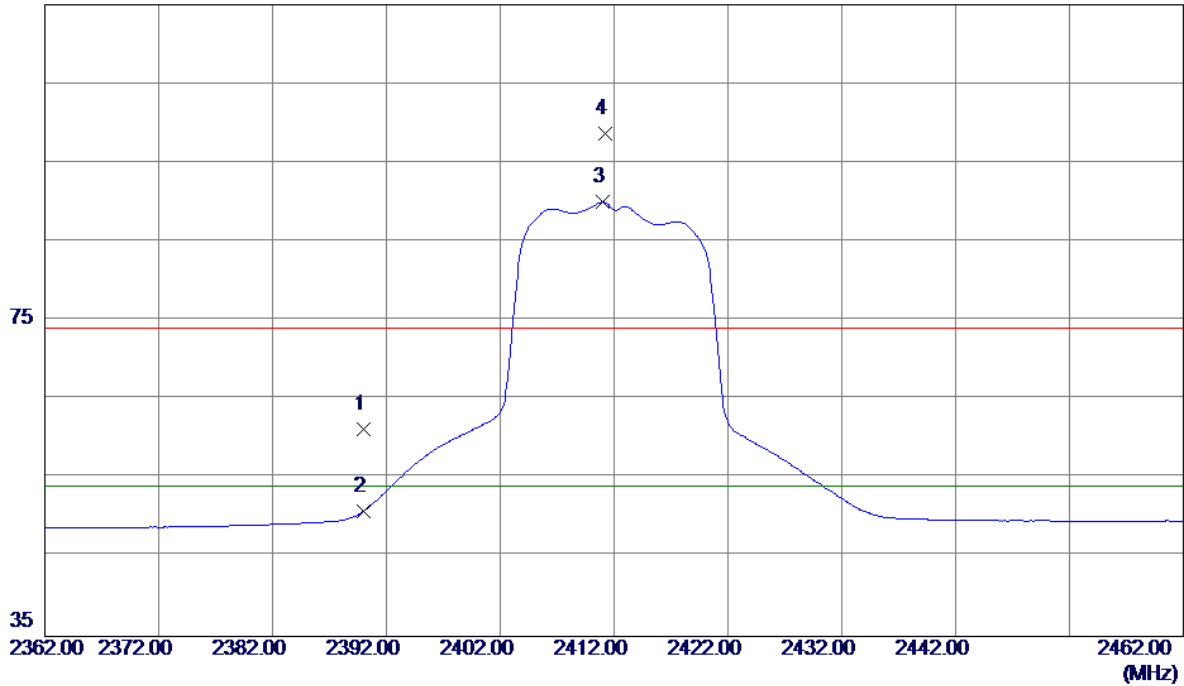


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0550	32.48	5.94	38.42	54.00	-15.58	AVG	
2	4924.0700	37.98	5.94	43.92	74.00	-30.08	Peak	

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

Vertical

115 dBuV/m

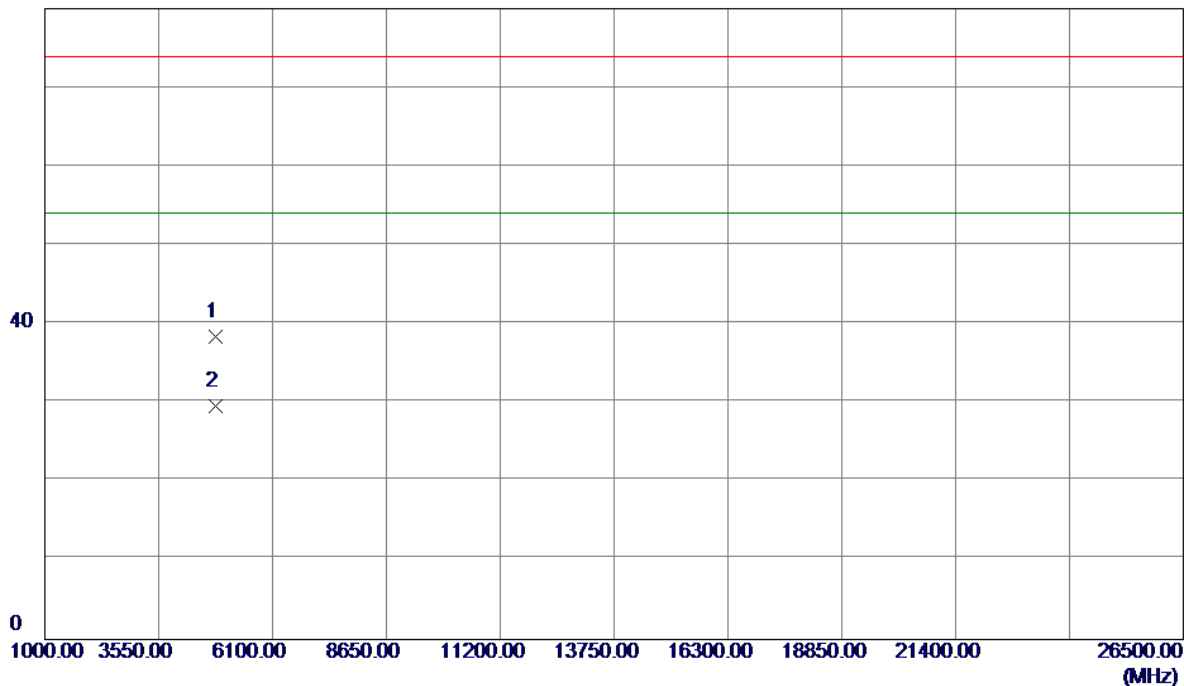


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	27.29	33.88	61.17	74.00	-12.83	Peak	
2	2390.0000	17.01	33.88	50.89	54.00	-3.11	AVG	
3 *	2411.0000	55.98	34.00	89.98	54.00	35.98	AVG	No Limit
4	2411.2000	64.61	34.00	98.61	74.00	24.61	Peak	No Limit

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

Vertical

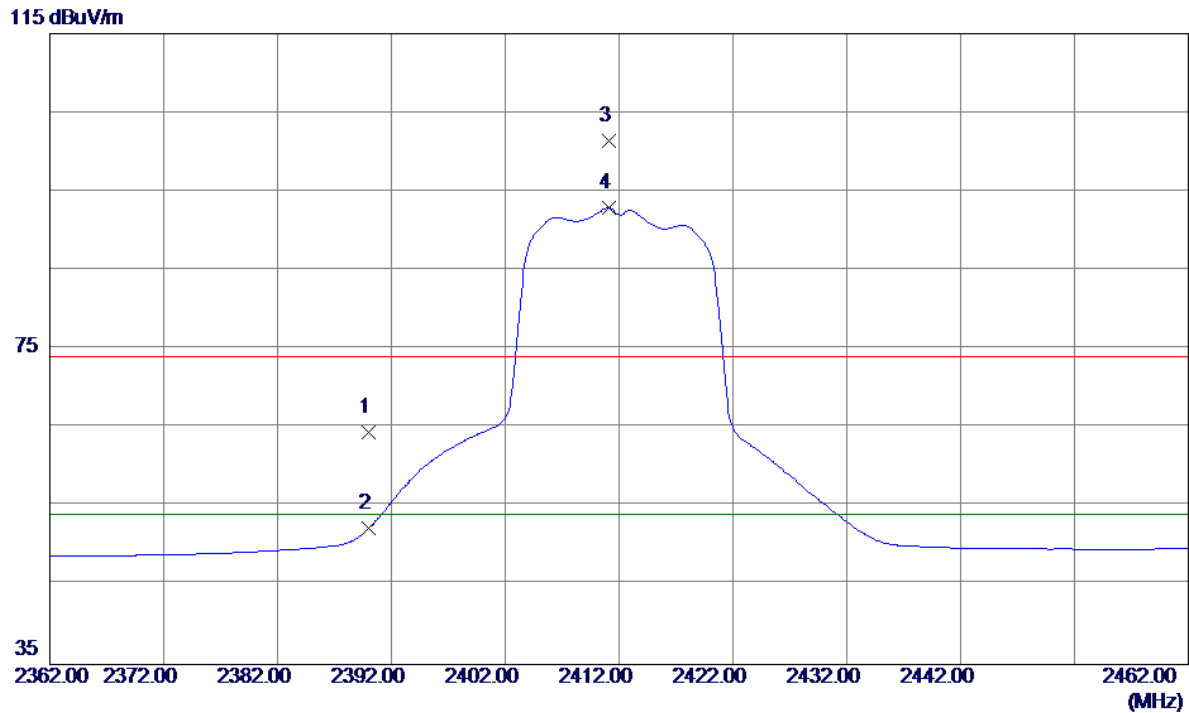
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.2000	33.00	5.46	38.46	74.00	-35.54	Peak	
2 *	4824.8000	24.11	5.46	29.57	54.00	-24.43	AVG	

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

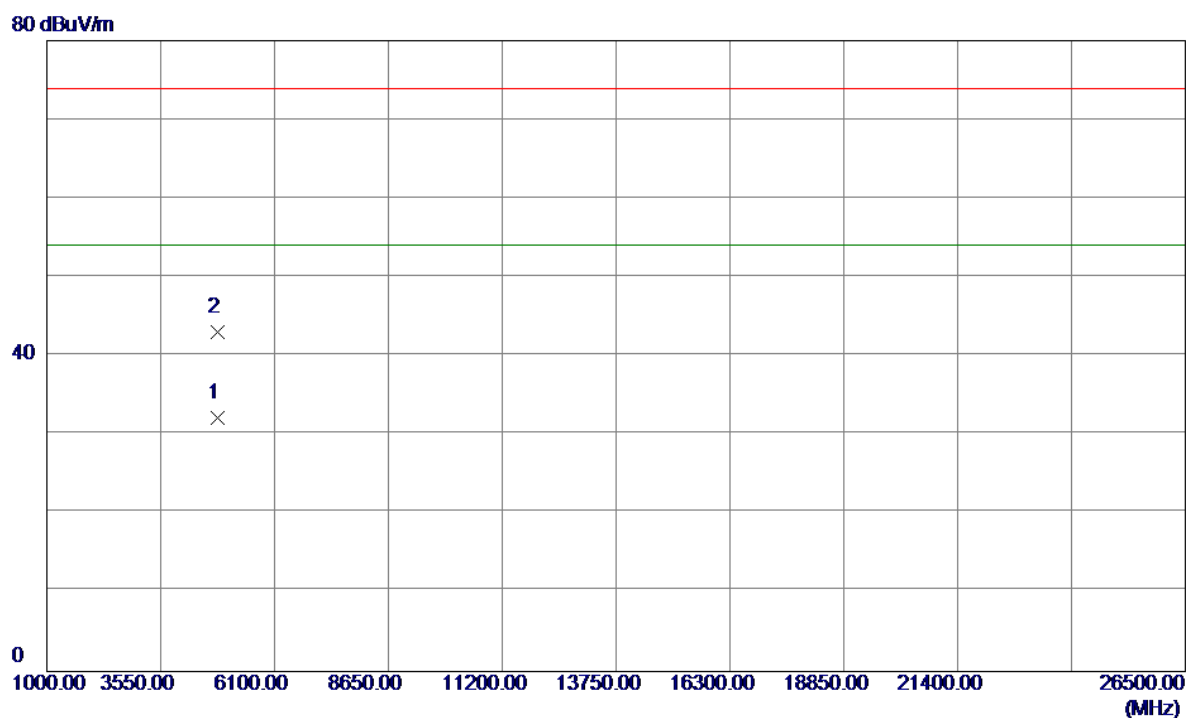
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.64	33.88	64.52	74.00	-9.48	Peak	
2	2390.0000	18.37	33.88	52.25	54.00	-1.75	AVG	
3	2411.1000	67.37	34.00	101.37	74.00	27.37	Peak	No Limit
4 *	2411.1000	58.88	34.00	92.88	54.00	38.88	AVG	No Limit

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

Horizontal

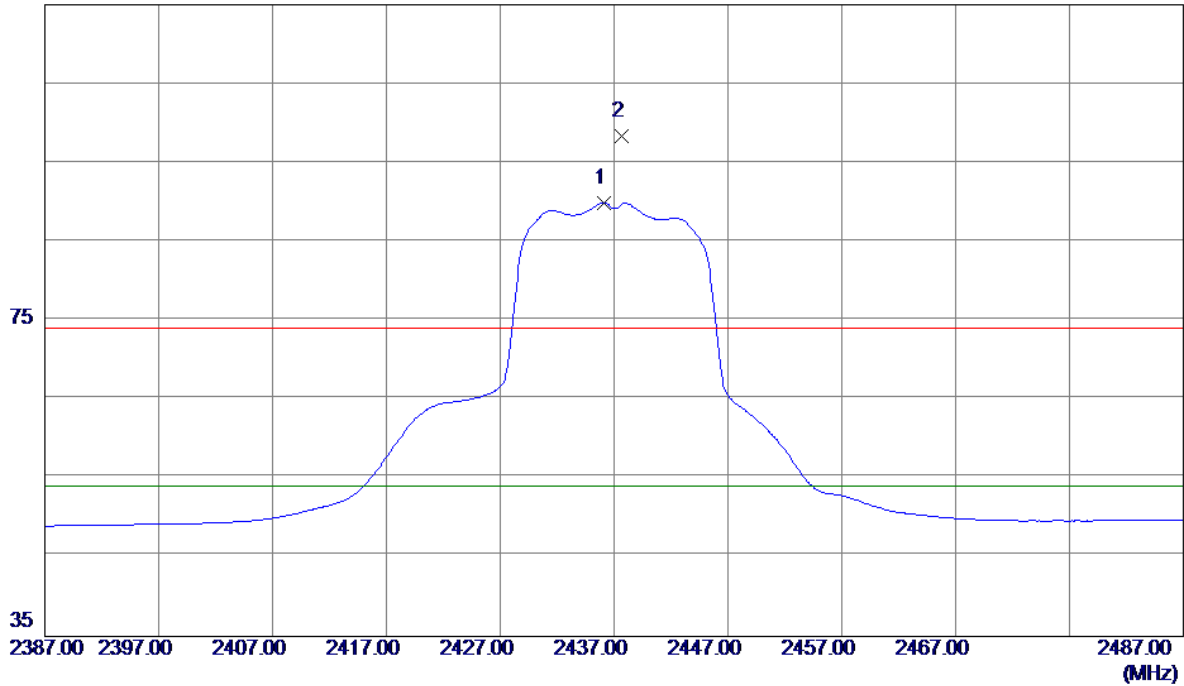


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9550	26.73	5.45	32.18	54.00	-21.82	AVG	
2	4823.9850	37.61	5.45	43.06	74.00	-30.94	Peak	

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

Vertical

115 dBuV/m

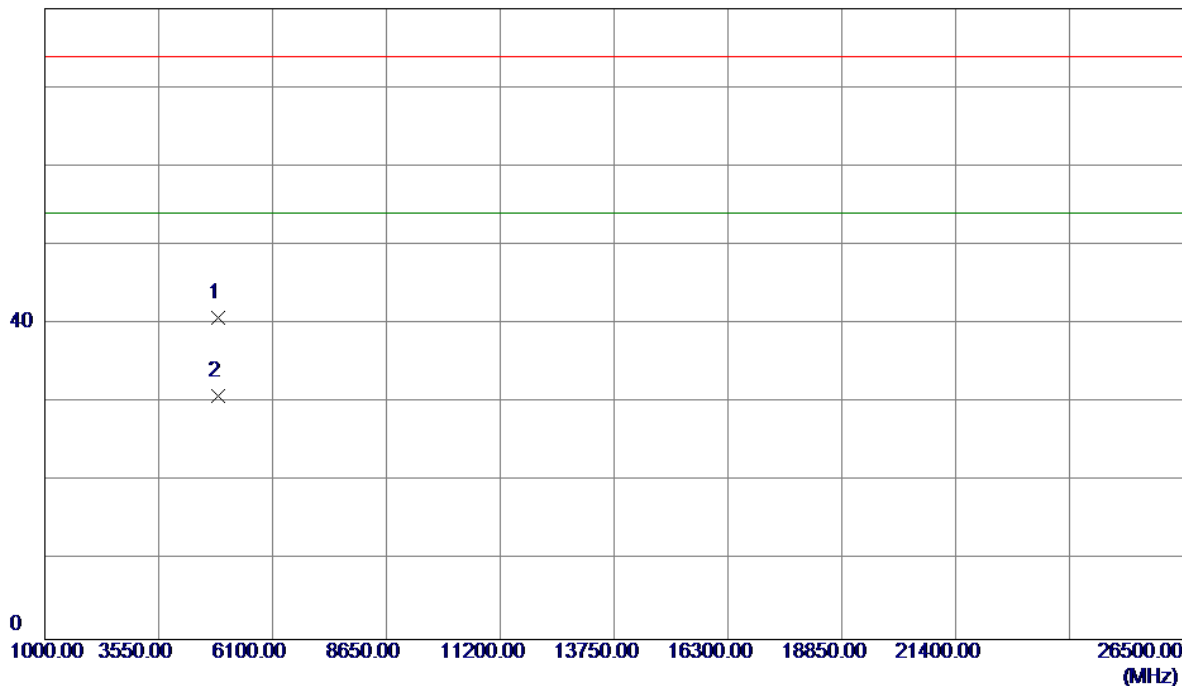


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.1000	55.78	34.14	89.92	54.00	35.92	AVG	No Limit
2	2437.7000	64.19	34.15	98.34	74.00	24.34	Peak	No Limit

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

Vertical

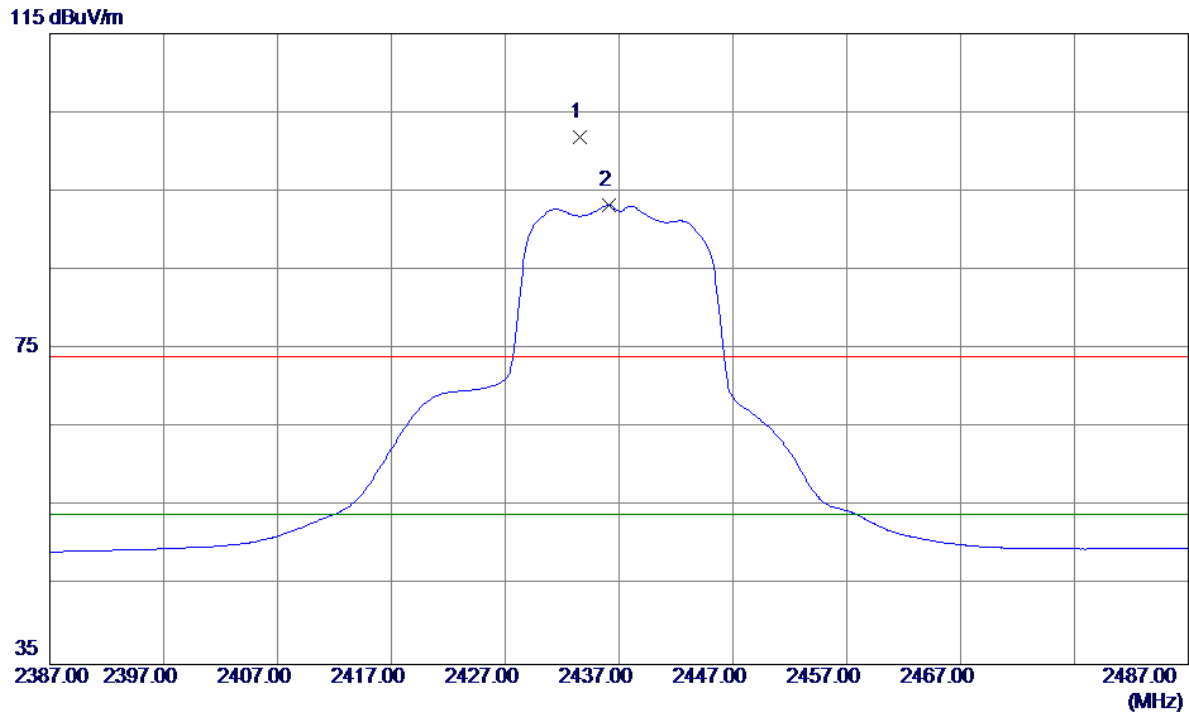
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.0000	35.11	5.69	40.80	74.00	-33.20	Peak	
2 *	4873.0000	25.19	5.69	30.88	54.00	-23.12	AVG	

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

Horizontal

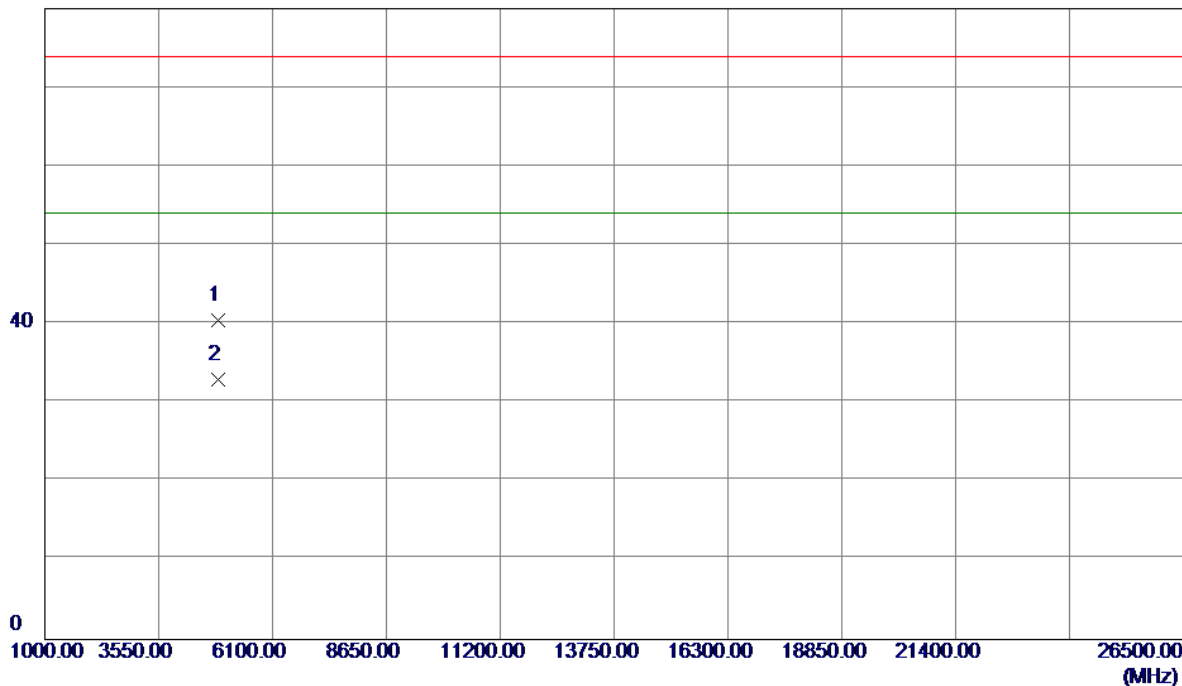


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.6000	67.68	34.13	101.81	74.00	27.81	Peak	No Limit
2 *	2436.1000	59.09	34.14	93.23	54.00	39.23	AVG	No Limit

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

Horizontal

80 dBuV/m

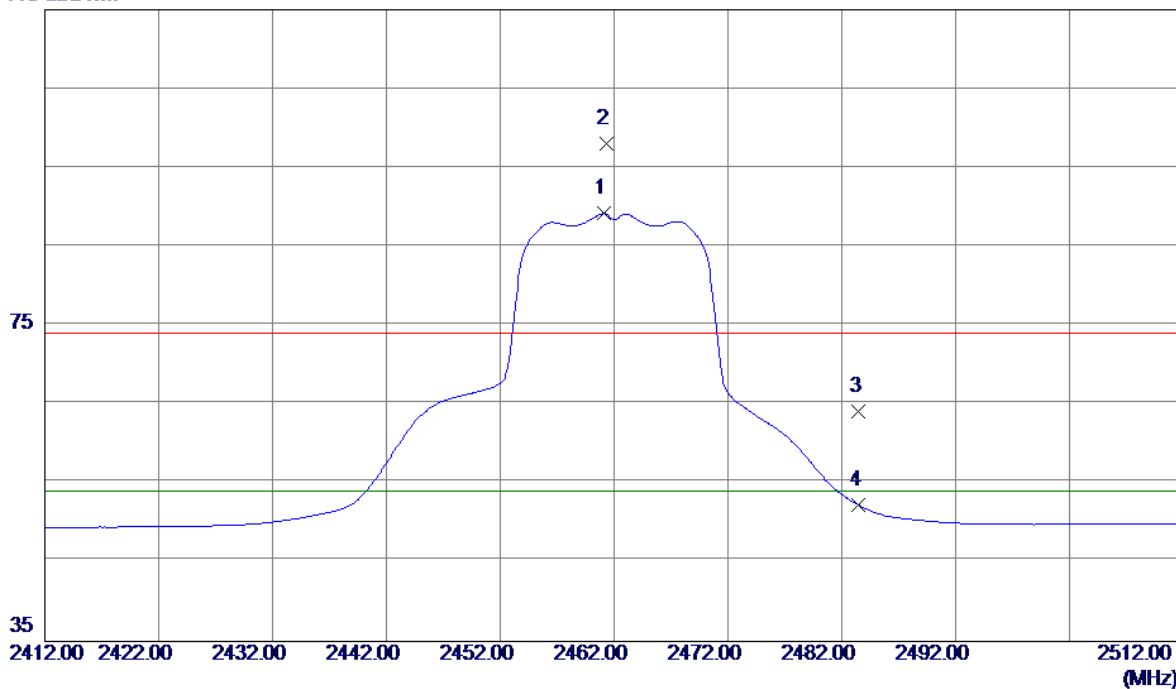


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.0000	34.85	5.69	40.54	74.00	-33.46	Peak	
2 *	4874.0000	27.21	5.70	32.91	54.00	-21.09	AVG	

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

Vertical

115 dBuV/m

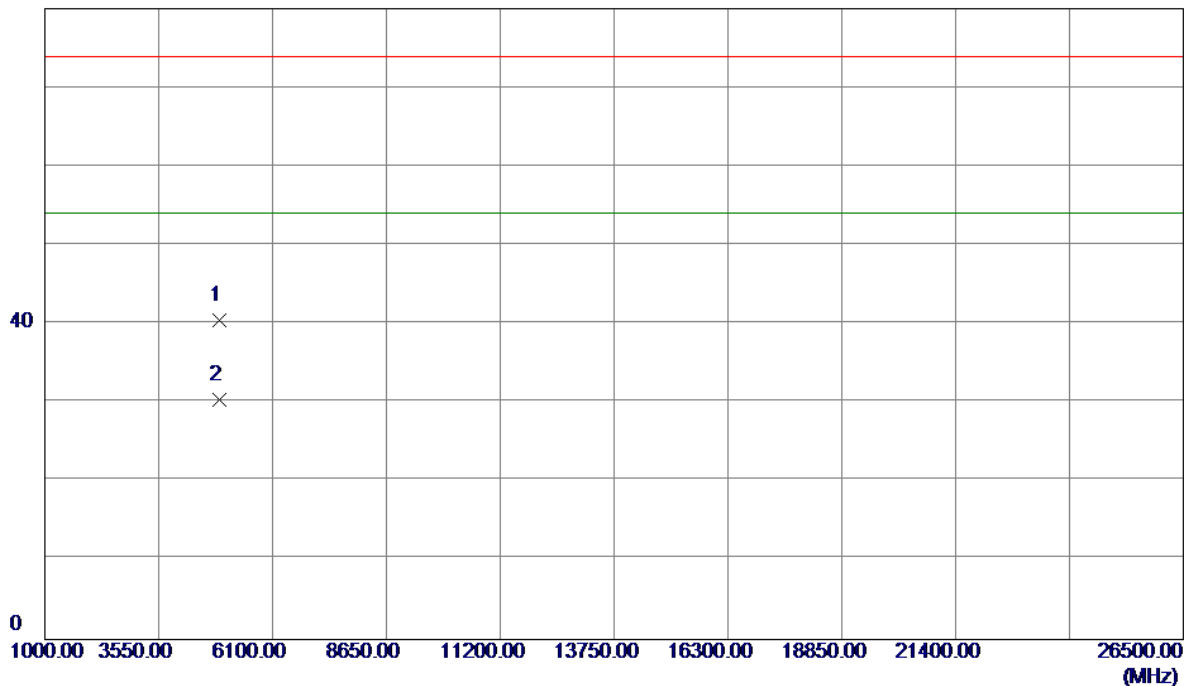


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.1000	54.90	34.29	89.19	54.00	35.19	AVG	No Limit
2	2461.3000	63.74	34.29	98.03	74.00	24.03	Peak	No Limit
3	2483.5000	29.70	34.41	64.11	74.00	-9.89	Peak	
4	2483.5000	17.85	34.41	52.26	54.00	-1.74	AVG	

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

Vertical

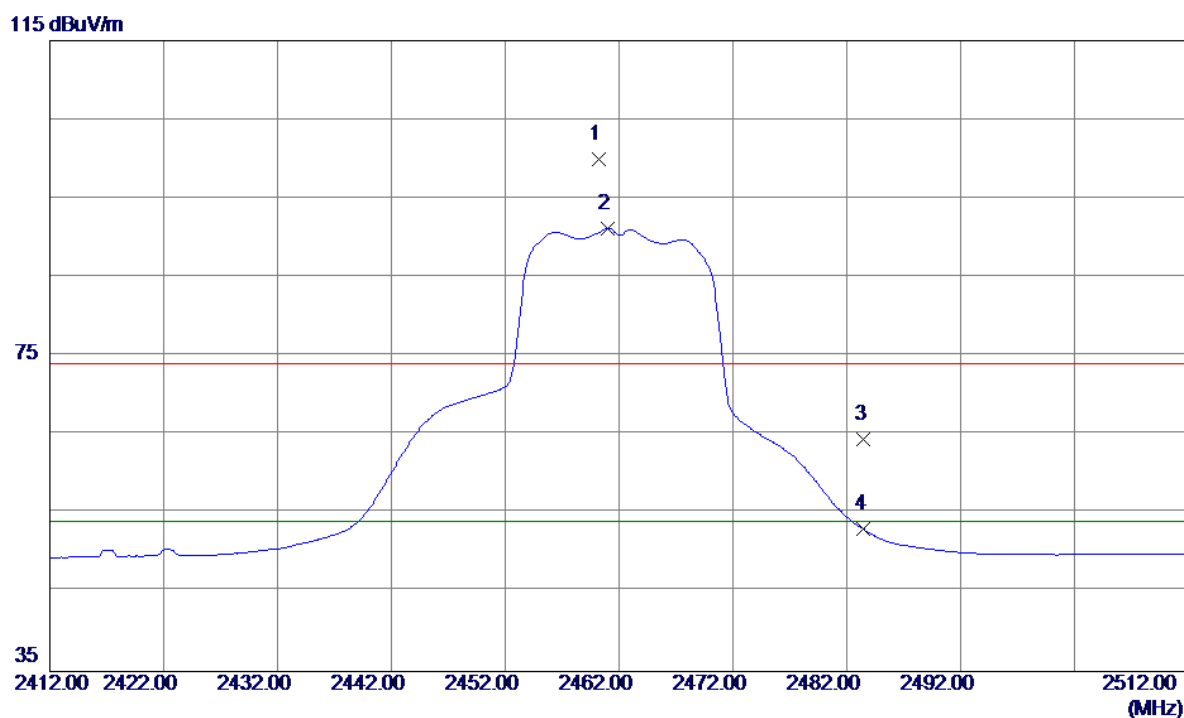
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.0000	34.54	5.94	40.48	74.00	-33.52	Peak	
2 *	4923.6000	24.48	5.94	30.42	54.00	-23.58	AVG	

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

Horizontal

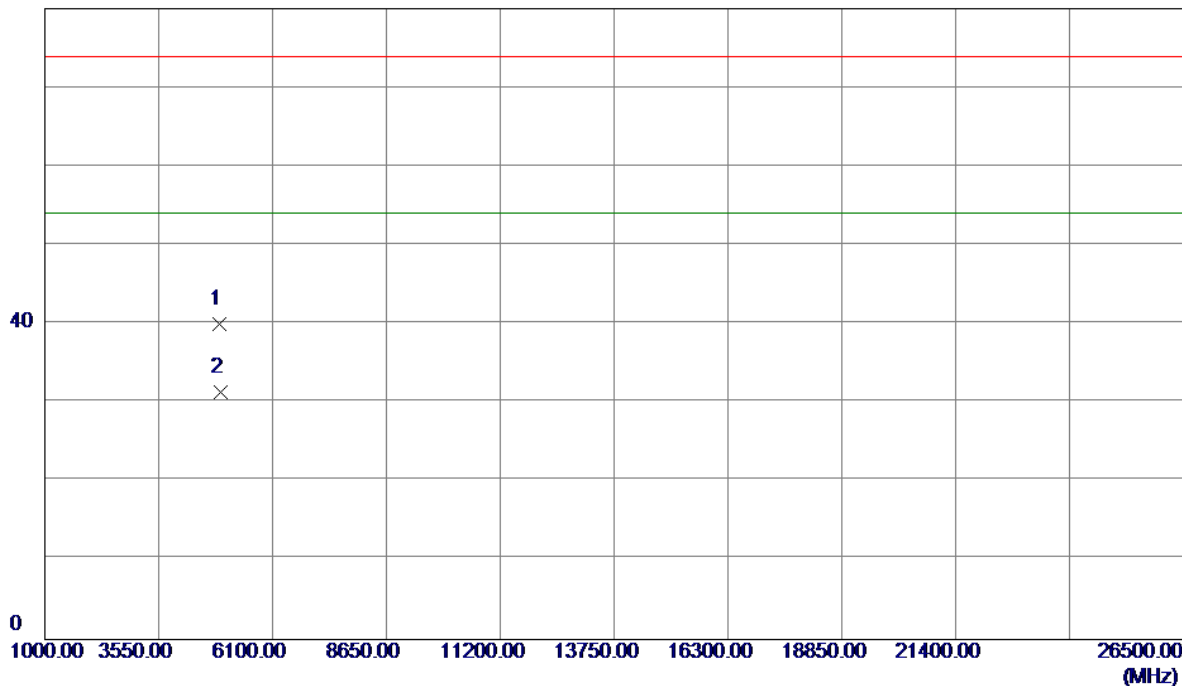


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.2000	65.72	34.28	100.00	74.00	26.00	Peak	No Limit
2 *	2461.0000	56.88	34.29	91.17	54.00	37.17	AVG	No Limit
3	2483.5000	30.08	34.41	64.49	74.00	-9.51	Peak	
4	2483.5000	18.61	34.41	53.02	54.00	-0.98	AVG	

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

Horizontal

80 dBuV/m

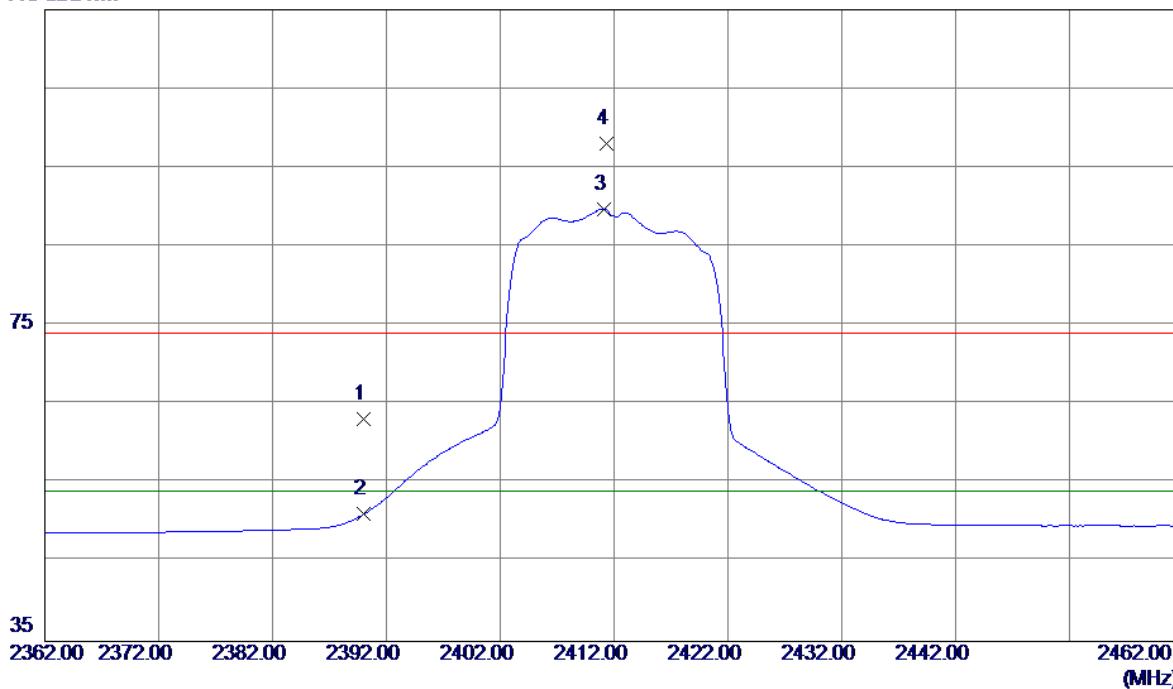


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.6000	34.04	5.94	39.98	74.00	-34.02	Peak	
2 *	4925.8000	25.47	5.95	31.42	54.00	-22.58	AVG	

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

Vertical

115 dBuV/m

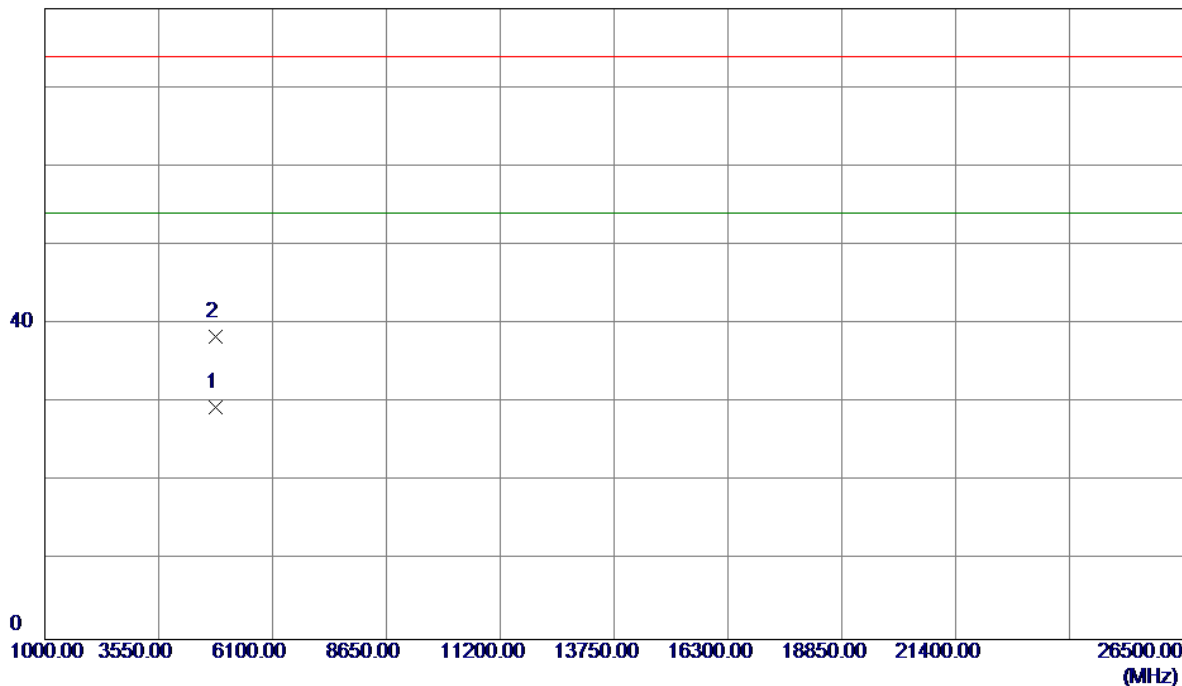


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.28	33.88	63.16	74.00	-10.84	Peak	
2	2390.0000	17.21	33.88	51.09	54.00	-2.91	AVG	
3 *	2411.1000	55.79	34.00	89.79	54.00	35.79	AVG	No Limit
4	2411.3000	64.07	34.00	98.07	74.00	24.07	Peak	No Limit

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

Vertical

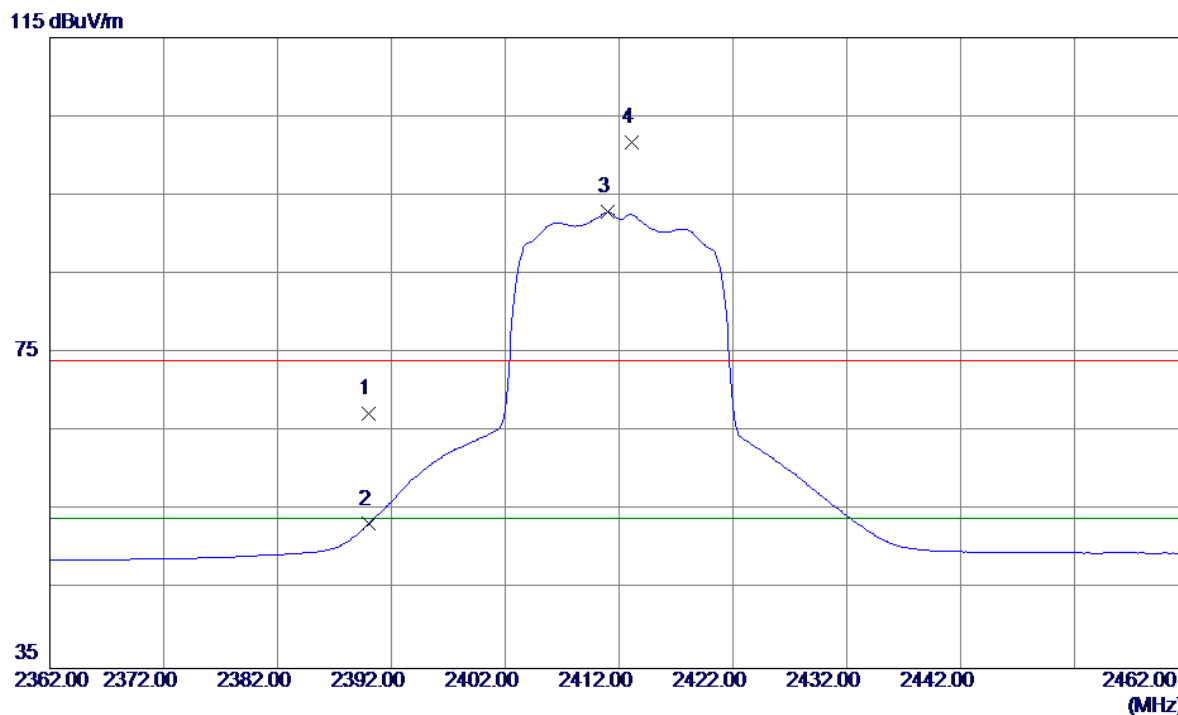
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.8000	23.94	5.46	29.40	54.00	-24.60	AVG	
2	4827.4000	32.96	5.47	38.43	74.00	-35.57	Peak	

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

Horizontal

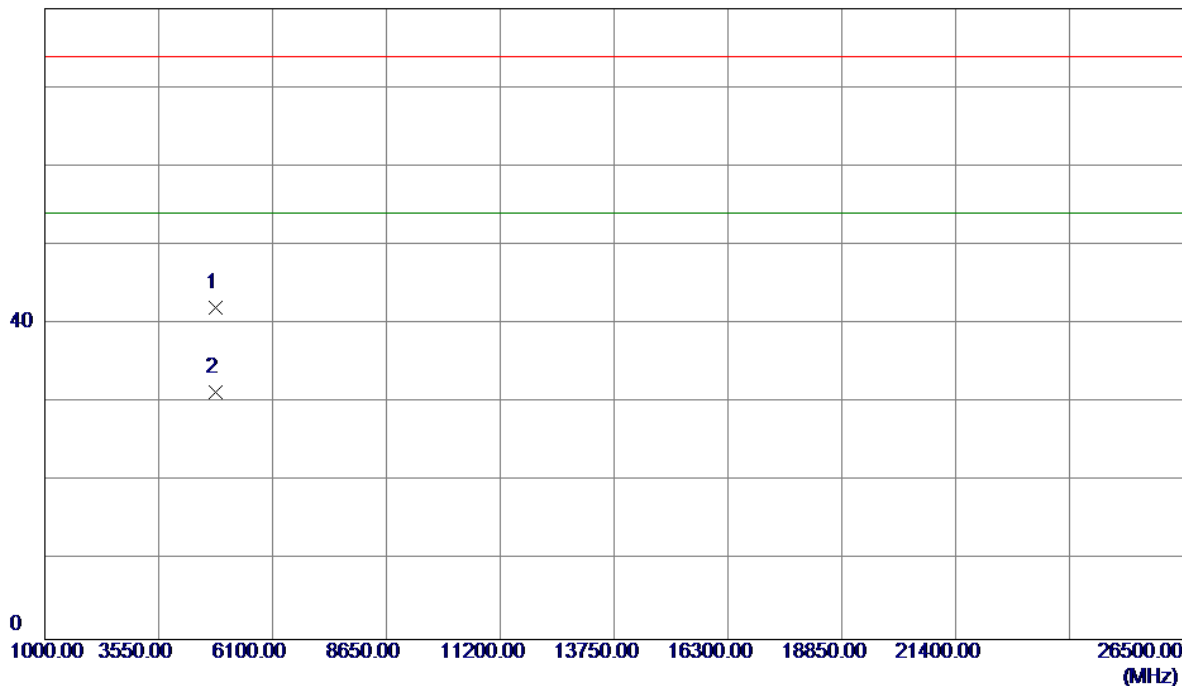


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.46	33.88	67.34	74.00	-6.66	Peak	
2	2390.0000	19.44	33.88	53.32	54.00	-0.68	AVG	
3 *	2411.0000	58.85	34.00	92.85	54.00	38.85	AVG	No Limit
4	2413.1000	67.66	34.01	101.67	74.00	27.67	Peak	No Limit

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

Horizontal

80 dBuV/m

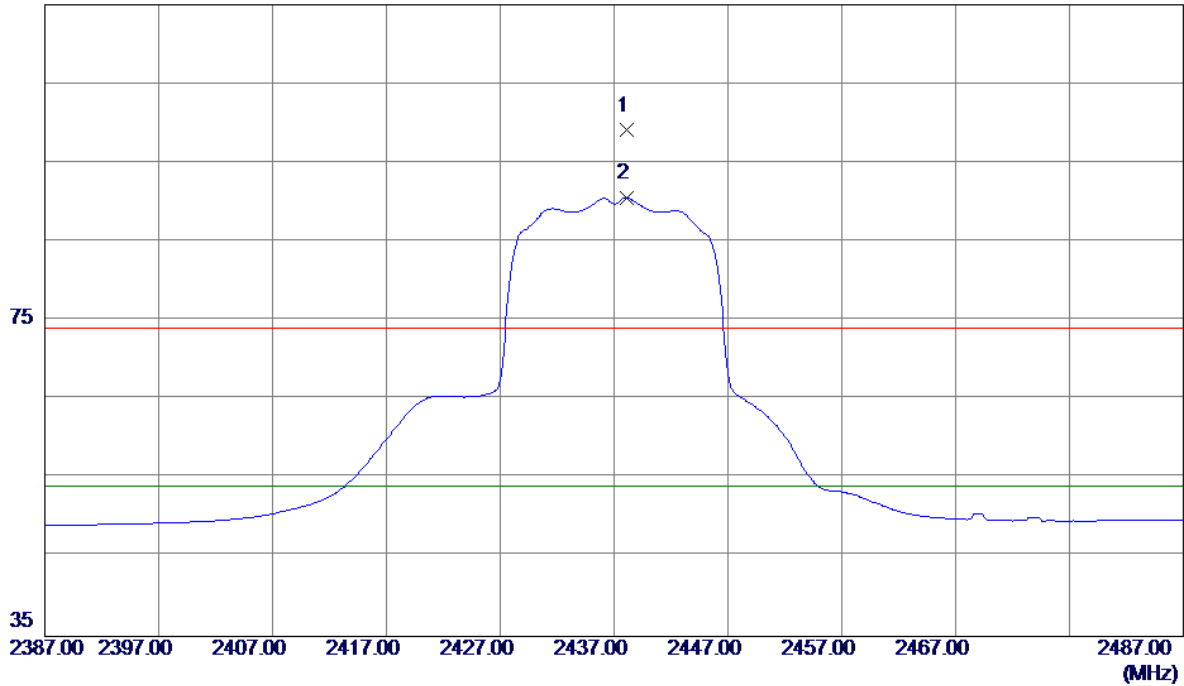


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4820.4000	36.61	5.44	42.05	74.00	-31.95	Peak	
2 *	4822.6000	25.85	5.45	31.30	54.00	-22.70	AVG	

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

Vertical

115 dBuV/m

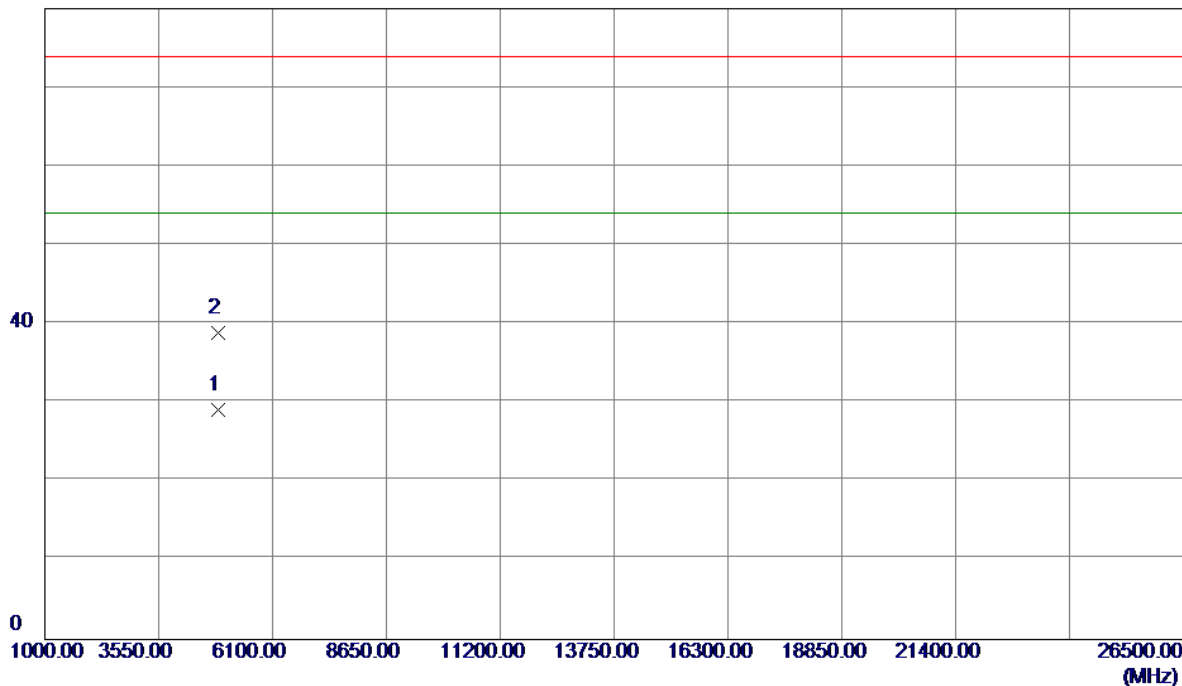


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2438.1000	64.93	34.15	99.08	74.00	25.08	Peak	No Limit
2 *	2438.1000	56.40	34.15	90.55	54.00	36.55	AVG	No Limit

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

Vertical

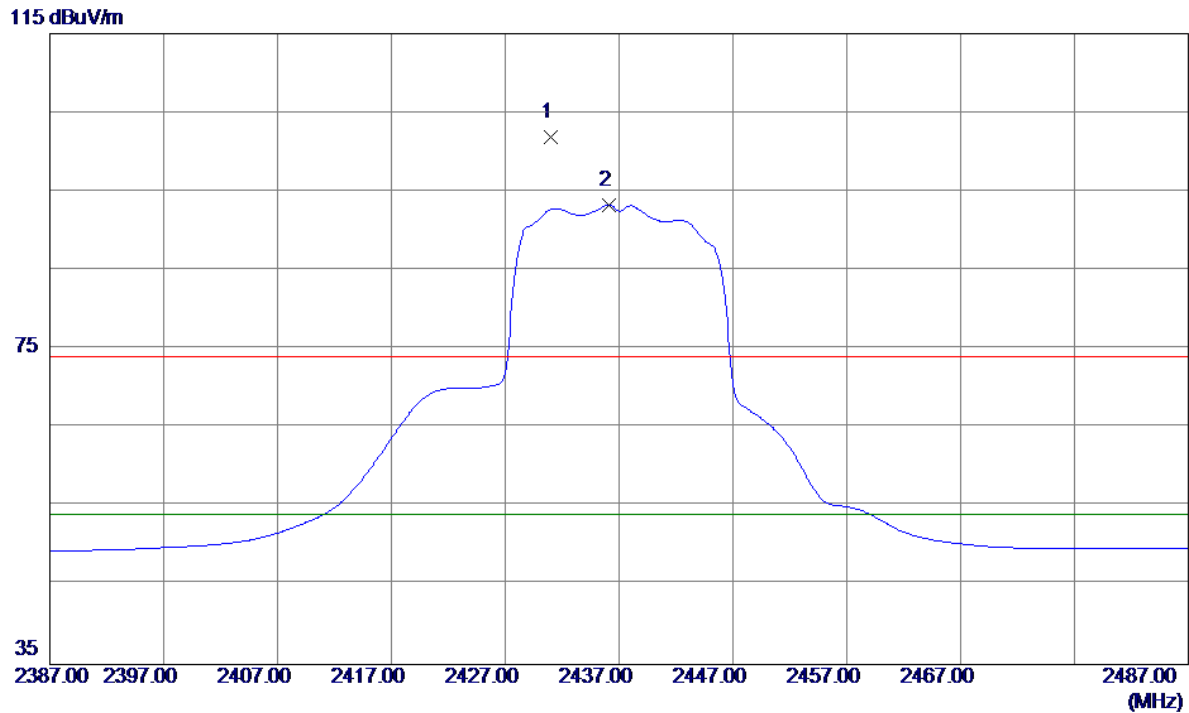
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873.9850	23.43	5.70	29.13	54.00	-24.87	AVG	
2	4874.0250	33.11	5.70	38.81	74.00	-35.19	Peak	

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

Horizontal

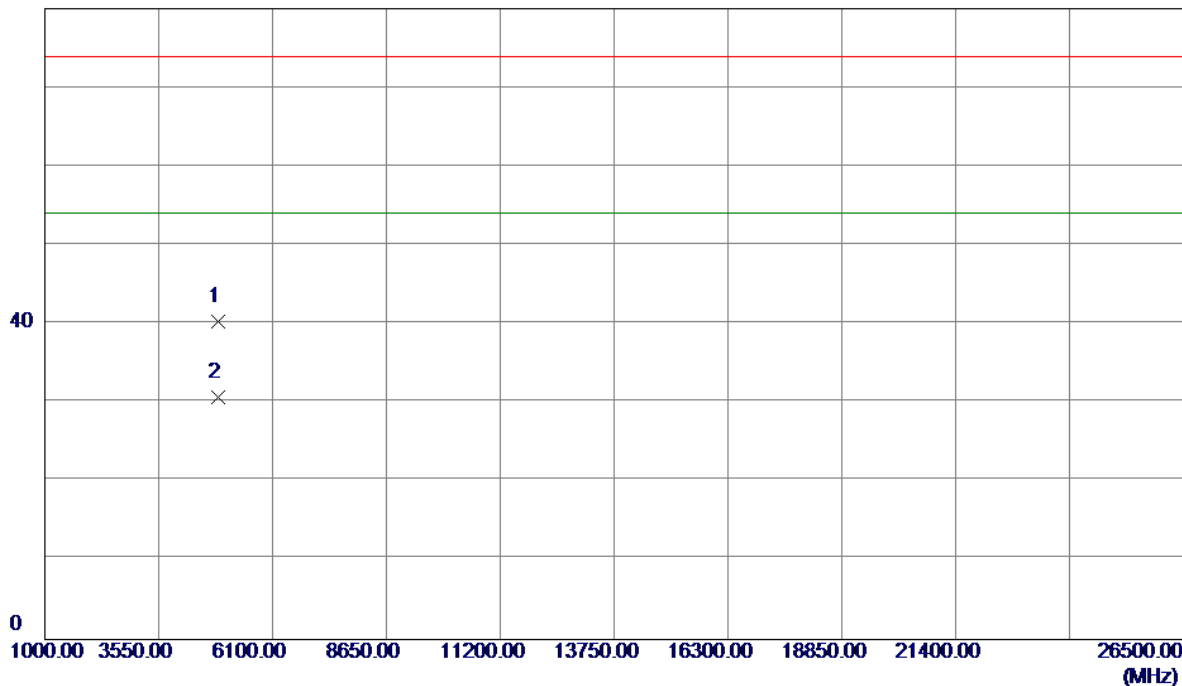


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2431.0000	67.70	34.11	101.81	74.00	27.81	Peak	No Limit
2 *	2436.1000	59.16	34.14	93.30	54.00	39.30	AVG	No Limit

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

Horizontal

80 dBuV/m

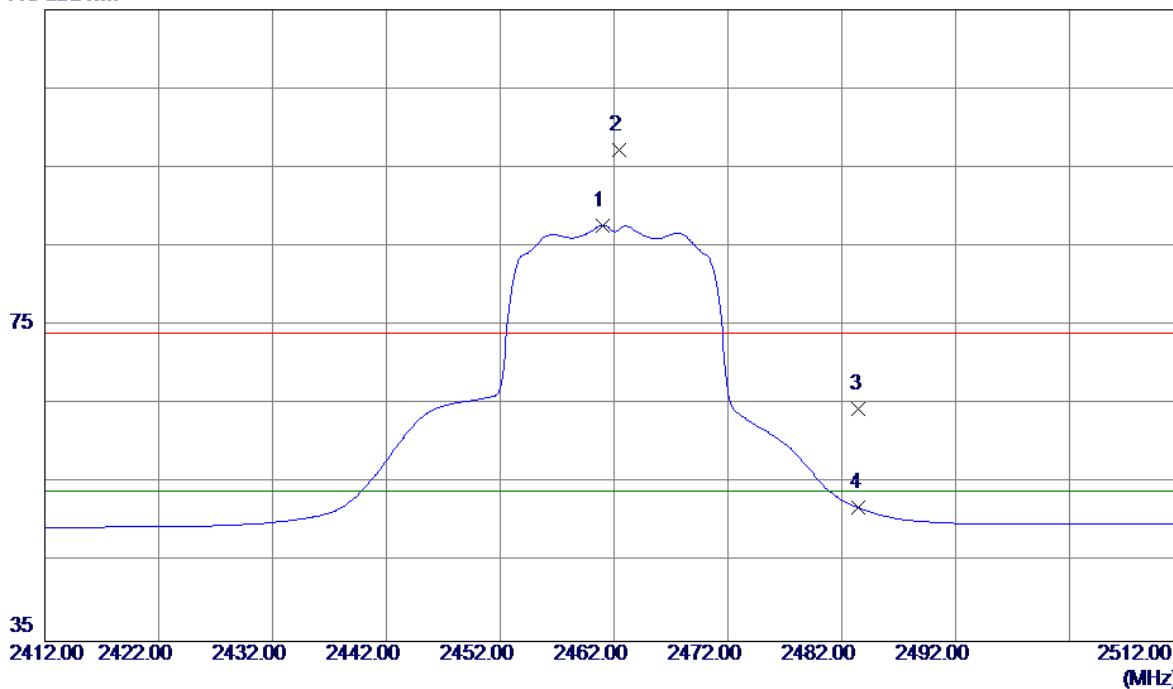


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9100	34.57	5.70	40.27	74.00	-33.73	Peak	
2 *	4874.0250	24.97	5.70	30.67	54.00	-23.33	AVG	

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

Vertical

115 dBuV/m

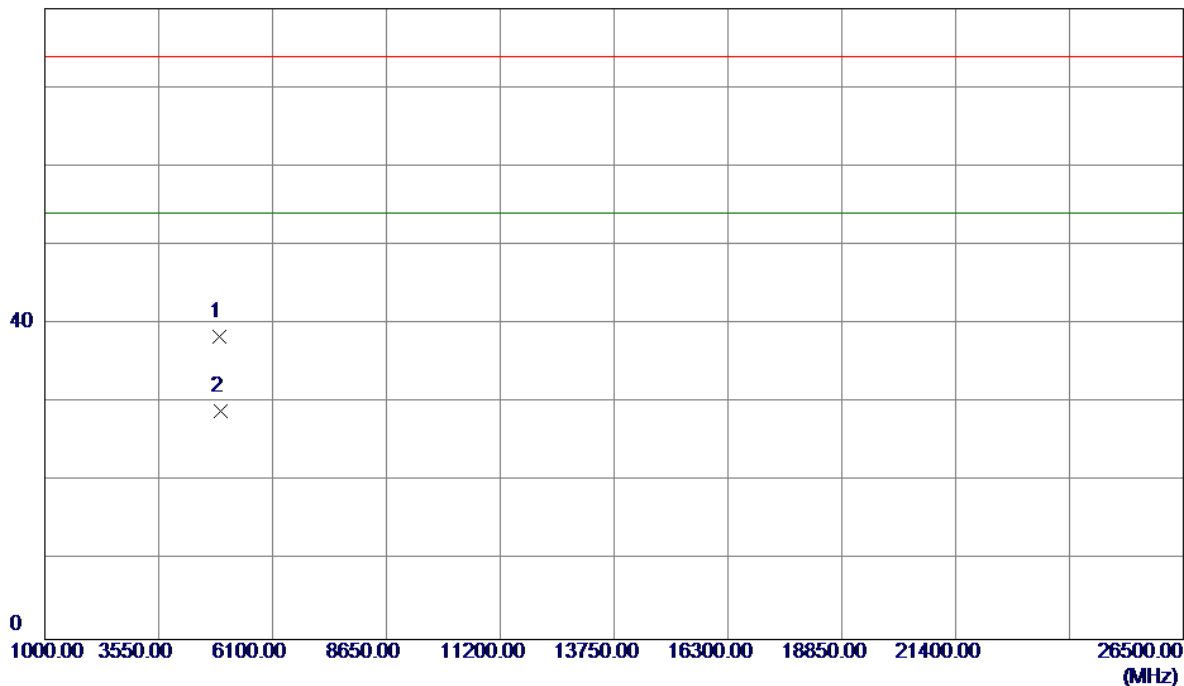


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	53.42	34.29	87.71	54.00	33.71	AVG	No Limit
2	2462.4000	63.02	34.29	97.31	74.00	23.31	Peak	No Limit
3	2483.5000	30.08	34.41	64.49	74.00	-9.51	Peak	
4	2483.5000	17.50	34.41	51.91	54.00	-2.09	AVG	

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

Vertical

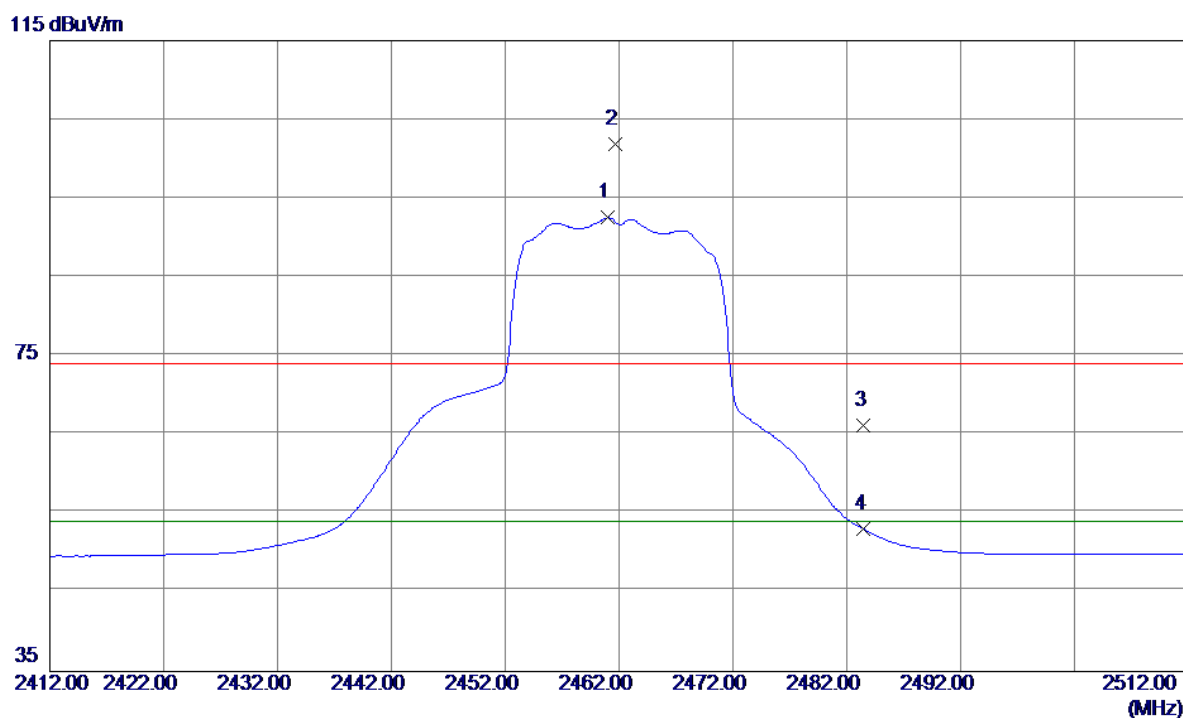
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.1000	32.48	5.94	38.42	74.00	-35.58	Peak	
2 *	4924.3000	23.09	5.94	29.03	54.00	-24.97	AVG	

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

Horizontal

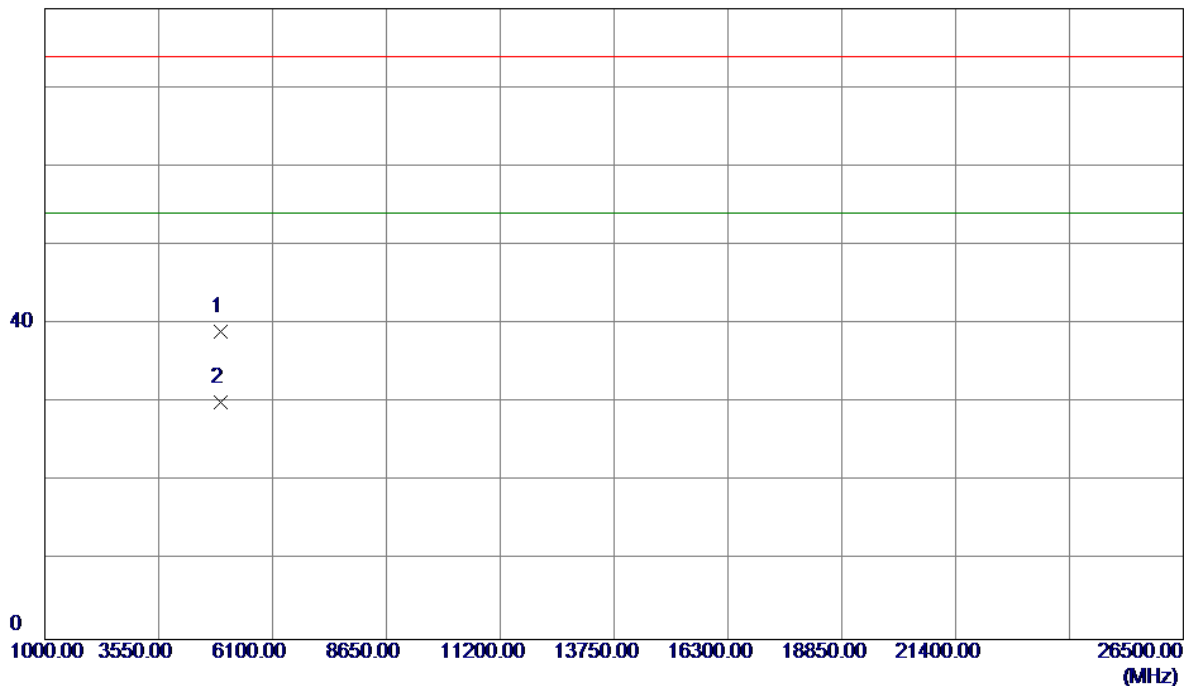


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	58.24	34.29	92.53	54.00	38.53	AVG	No Limit
2	2461.7000	67.52	34.29	101.81	74.00	27.81	Peak	No Limit
3	2483.5000	31.79	34.41	66.20	74.00	-7.80	Peak	
4	2483.5000	18.61	34.41	53.02	54.00	-0.98	AVG	

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

Horizontal

80 dBuV/m



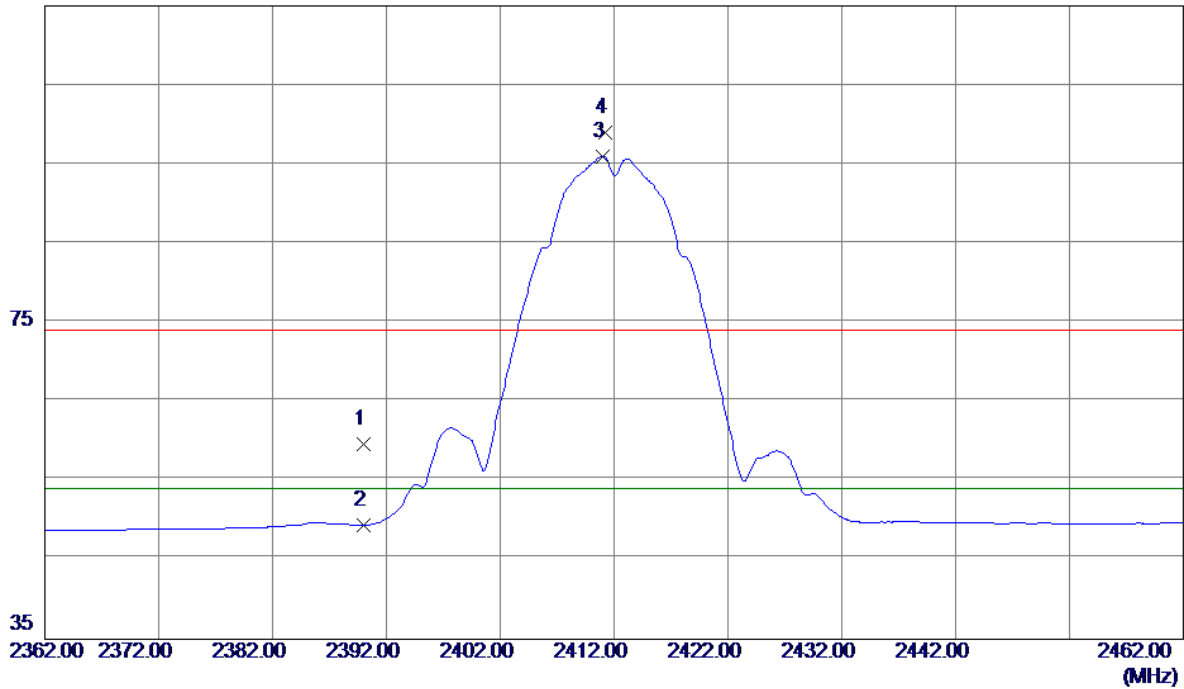
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.3000	33.05	5.94	38.99	74.00	-35.01	Peak	
2 *	4925.1000	24.12	5.95	30.07	54.00	-23.93	AVG	

For Dipole antenna

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

Vertical

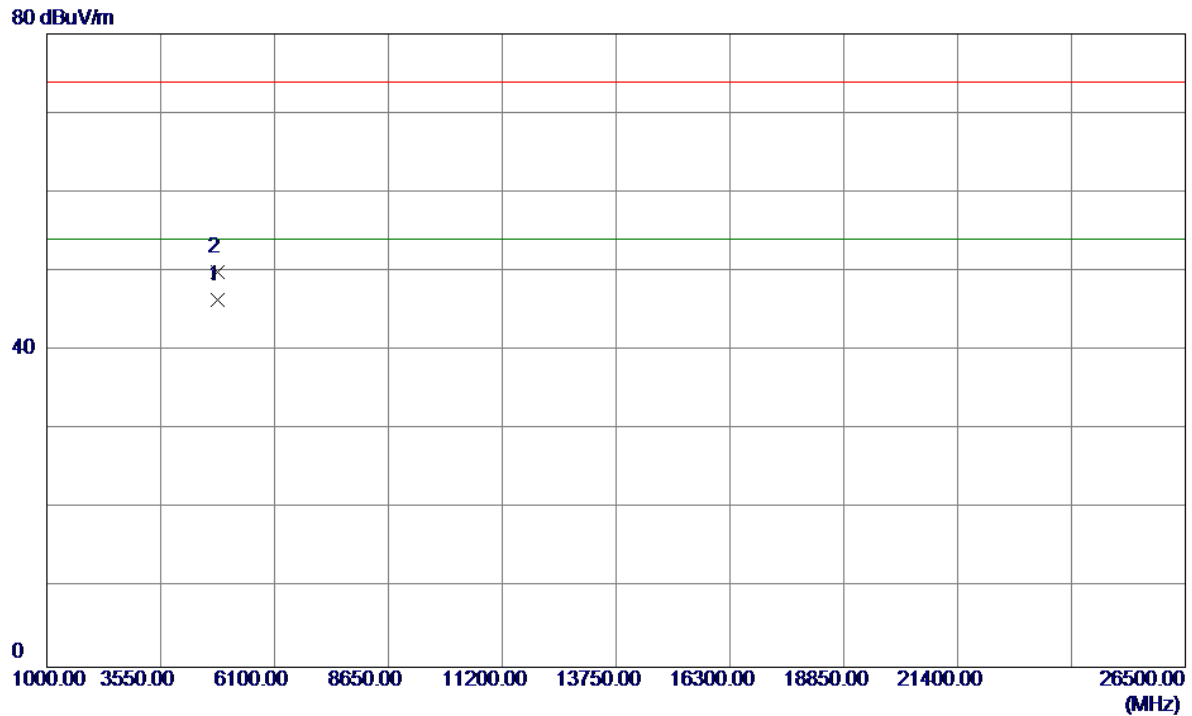
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.77	33.88	59.65	74.00	-14.35	Peak	
2	2390.0000	15.46	33.88	49.34	54.00	-4.66	AVG	
3 *	2411.0000	62.03	34.00	96.03	54.00	42.03	AVG	No Limit
4	2411.2000	65.05	34.00	99.05	74.00	25.05	Peak	No Limit

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

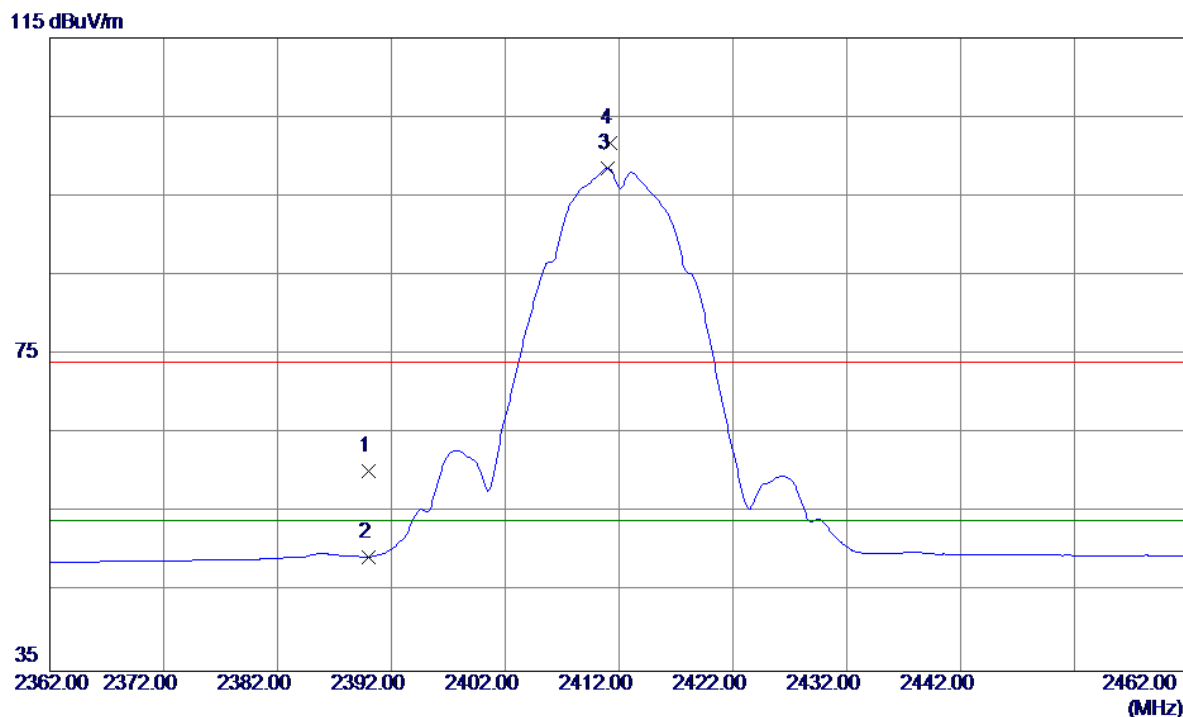
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0099	40.98	5.45	46.43	54.00	-7.57	AVG	
2	4824.0900	44.47	5.45	49.92	74.00	-24.08	Peak	

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

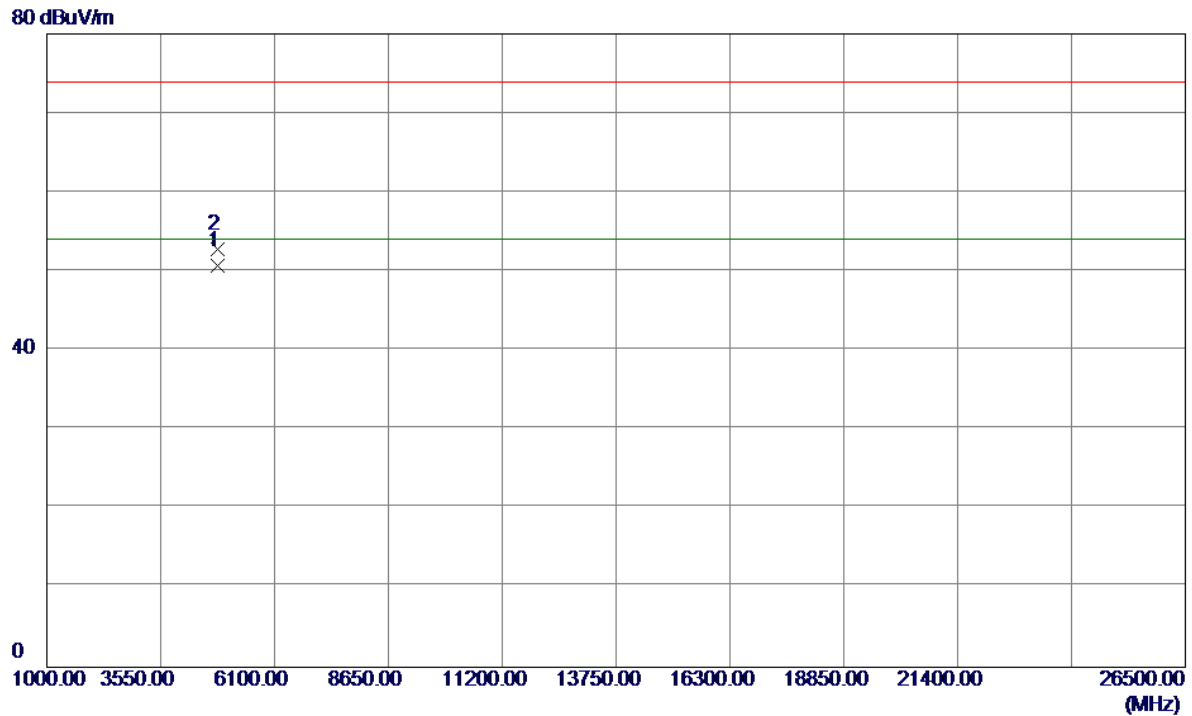
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	26.35	33.88	60.23	74.00	-13.77	Peak	
2	2390.0000	15.56	33.88	49.44	54.00	-4.56	AVG	
3 *	2411.0000	64.52	34.00	98.52	54.00	44.52	AVG	No Limit
4	2411.2000	67.66	34.00	101.66	74.00	27.66	Peak	No Limit

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

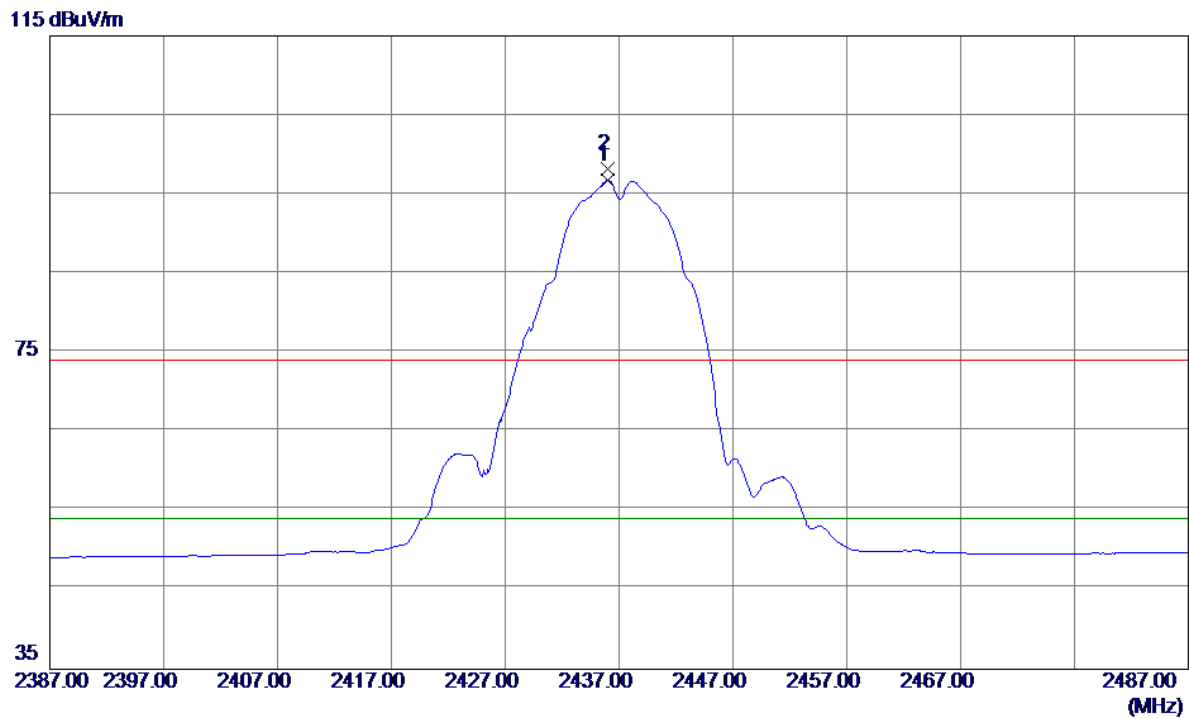
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0099	45.33	5.45	50.78	54.00	-3.22	AVG	
2	4824.0400	47.35	5.45	52.80	74.00	-21.20	Peak	

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

Vertical

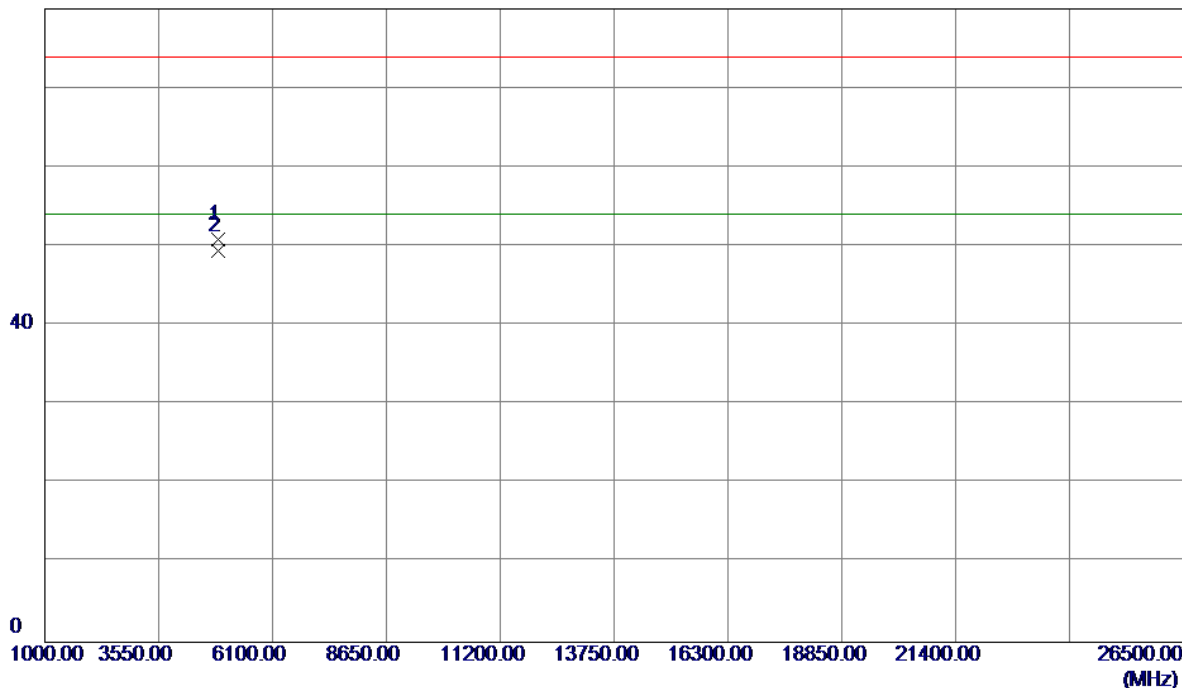


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.0000	62.59	34.14	96.73	74.00	22.73	Peak	No Limit
2 *	2436.0000	64.09	34.14	98.23	54.00	44.23	AVG	No Limit

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

Vertical

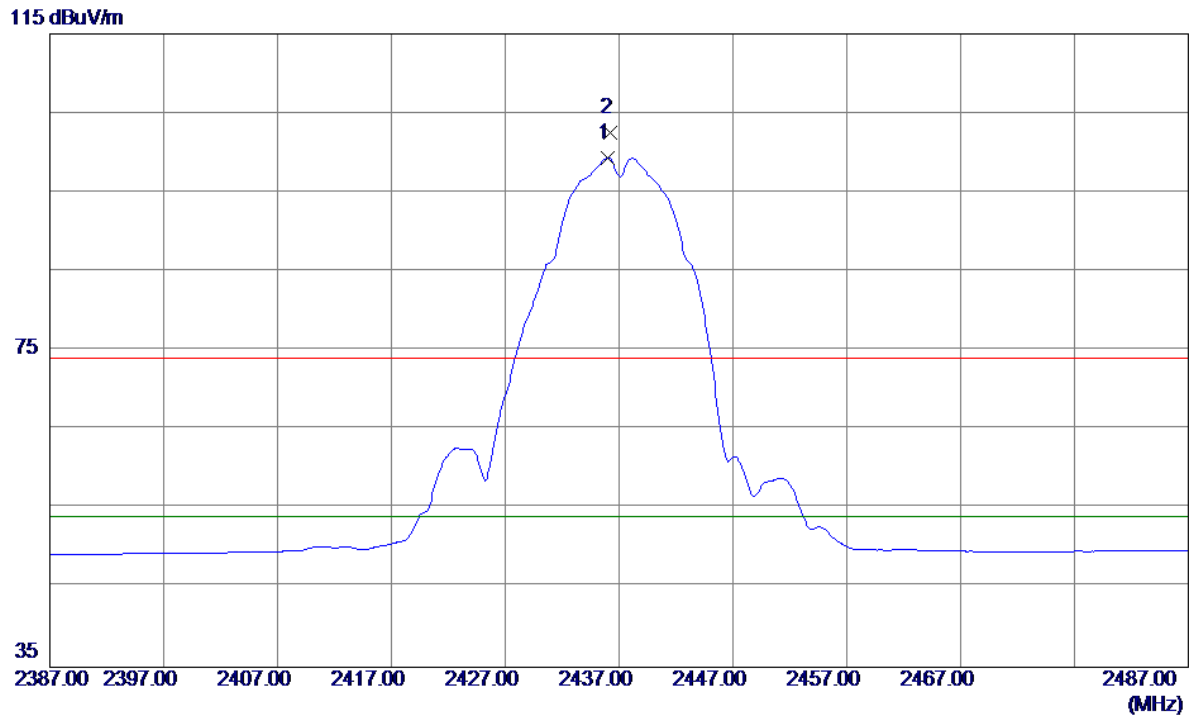
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0200	45.19	5.70	50.89	74.00	-23.11	Peak	
2 *	4874.0200	43.78	5.70	49.48	54.00	-4.52	AVG	

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

Horizontal

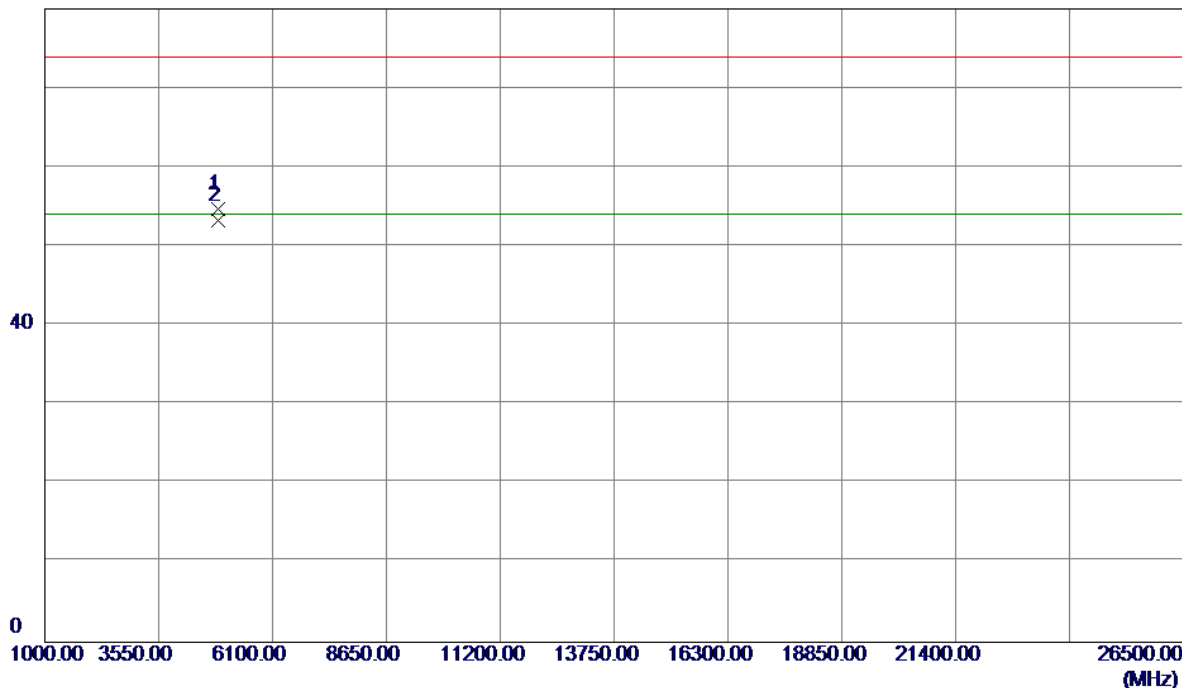


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.0000	65.19	34.14	99.33	54.00	45.33	AVG	No Limit
2	2436.2000	68.45	34.14	102.59	74.00	28.59	Peak	No Limit

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

Horizontal

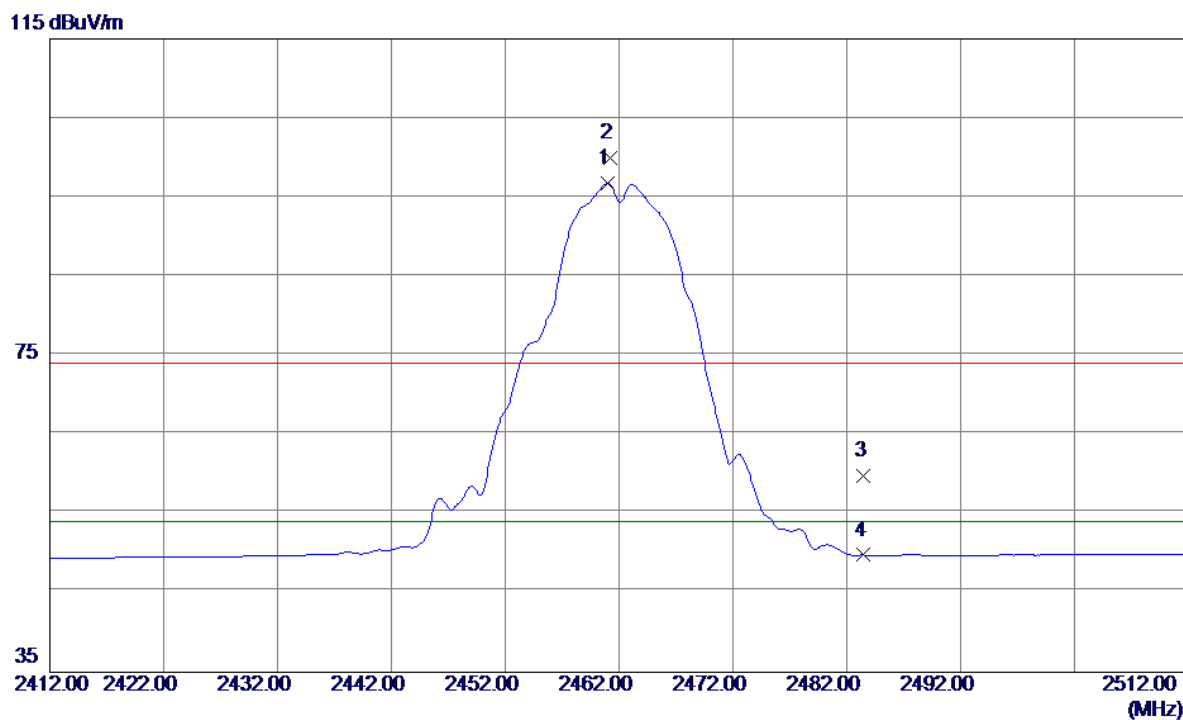
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0200	49.05	5.70	54.75	74.00	-19.25	Peak	
2 *	4874.0200	47.52	5.70	53.22	54.00	-0.78	AVG	

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

Vertical

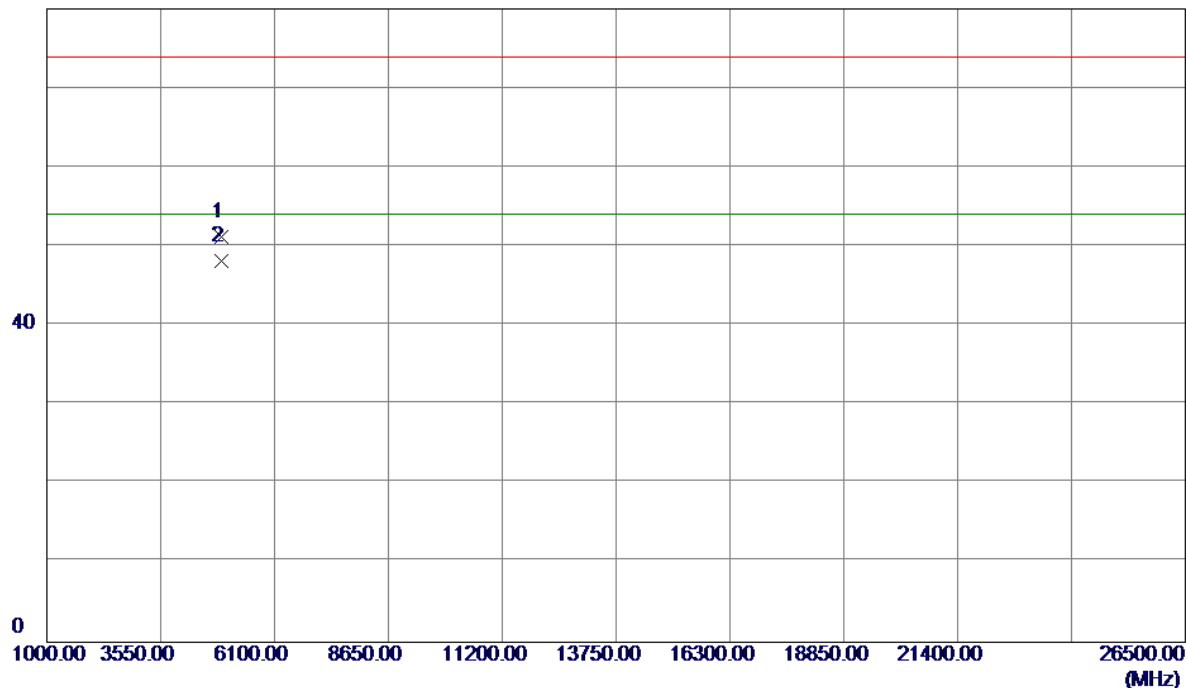


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	62.44	34.29	96.73	54.00	42.73	AVG	No Limit
2	2461.2000	65.67	34.29	99.96	74.00	25.96	Peak	No Limit
3	2483.5000	25.44	34.41	59.85	74.00	-14.15	Peak	
4	2483.5000	15.39	34.41	49.80	54.00	-4.20	AVG	

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

Vertical

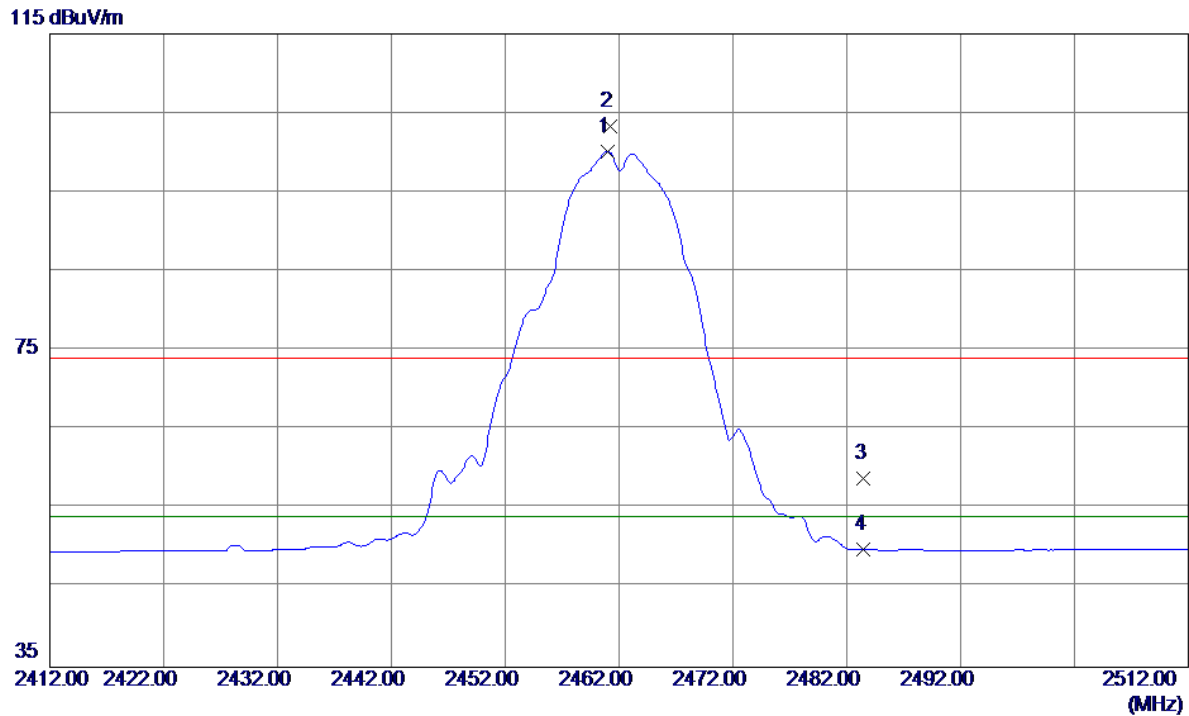
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0400	45.29	5.94	51.23	74.00	-22.77	Peak	
2 *	4924.0400	42.21	5.94	48.15	54.00	-5.85	AVG	

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

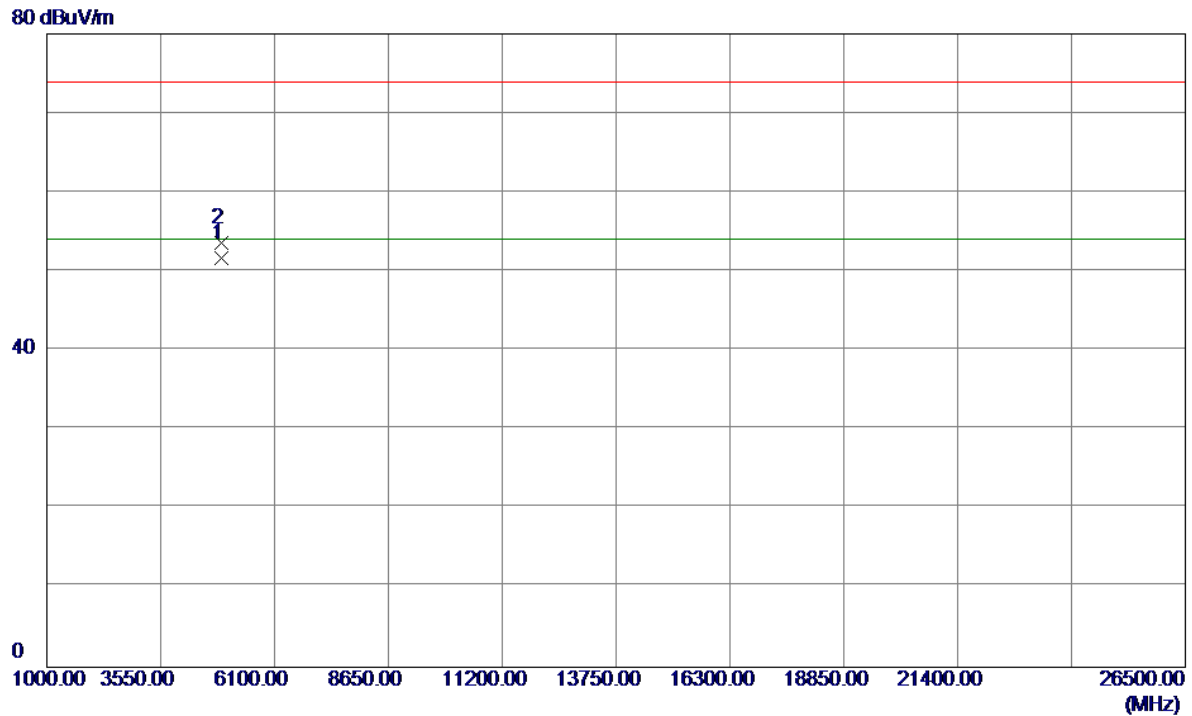
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	65.82	34.29	100.11	54.00	46.11	AVG	No Limit
2	2461.2000	68.99	34.29	103.28	74.00	29.28	Peak	No Limit
3	2483.5000	24.46	34.41	58.87	74.00	-15.13	Peak	
4	2483.5000	15.43	34.41	49.84	54.00	-4.16	AVG	

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

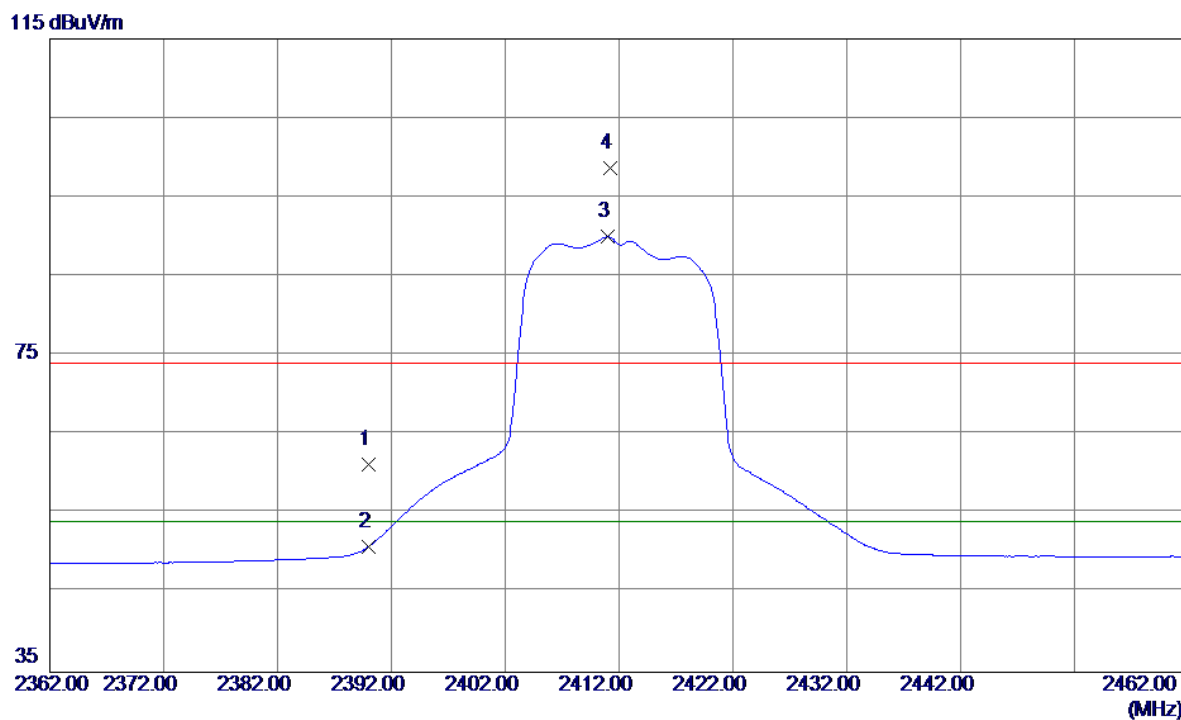
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0500	45.81	5.94	51.75	54.00	-2.25	AVG	
2	4924.0700	47.59	5.94	53.53	74.00	-20.47	Peak	

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

Vertical

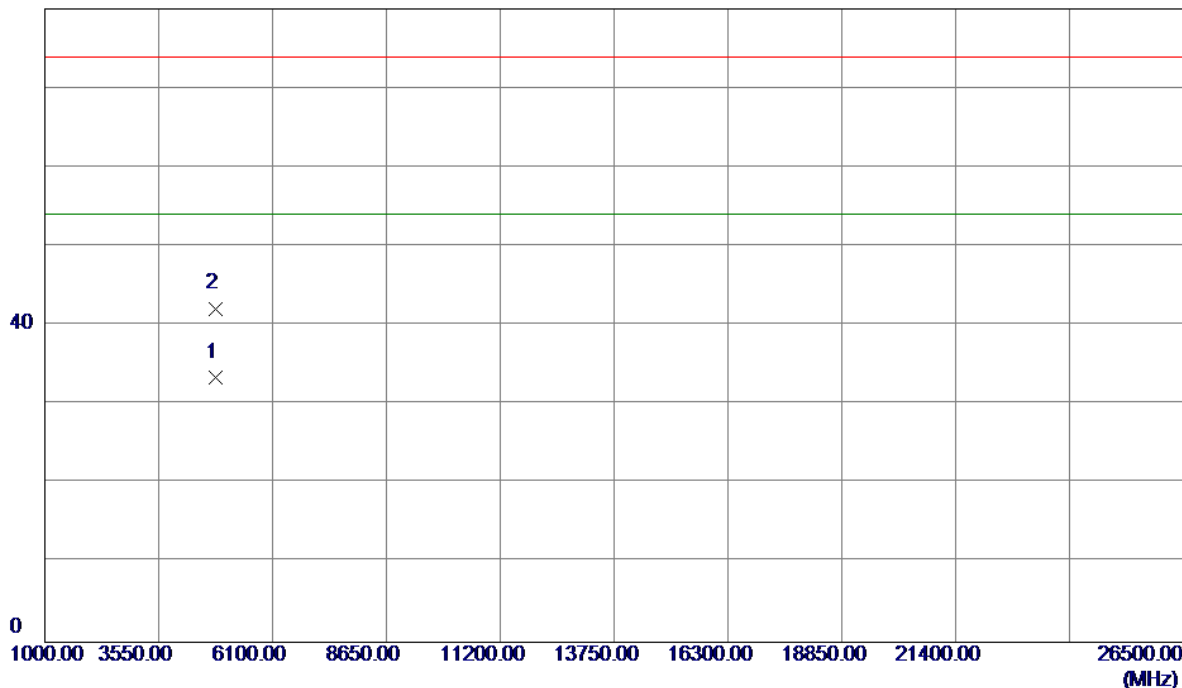


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	27.29	33.88	61.17	74.00	-12.83	Peak	
2	2390.0000	17.01	33.88	50.89	54.00	-3.11	AVG	
3 *	2411.0000	55.98	34.00	89.98	54.00	35.98	AVG	No Limit
4	2411.2000	64.61	34.00	98.61	74.00	24.61	Peak	No Limit

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

Vertical

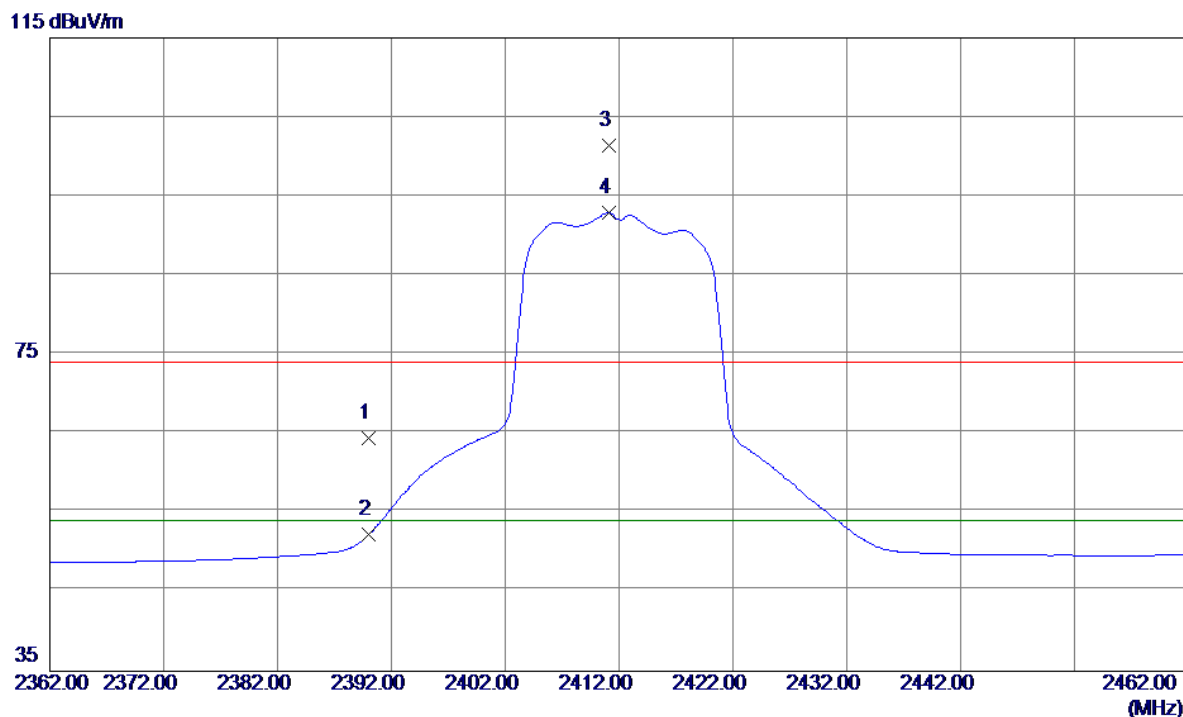
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.0000	27.92	5.45	33.37	54.00	-20.63	AVG	
2	4824.4000	36.70	5.46	42.16	74.00	-31.84	Peak	

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

Horizontal

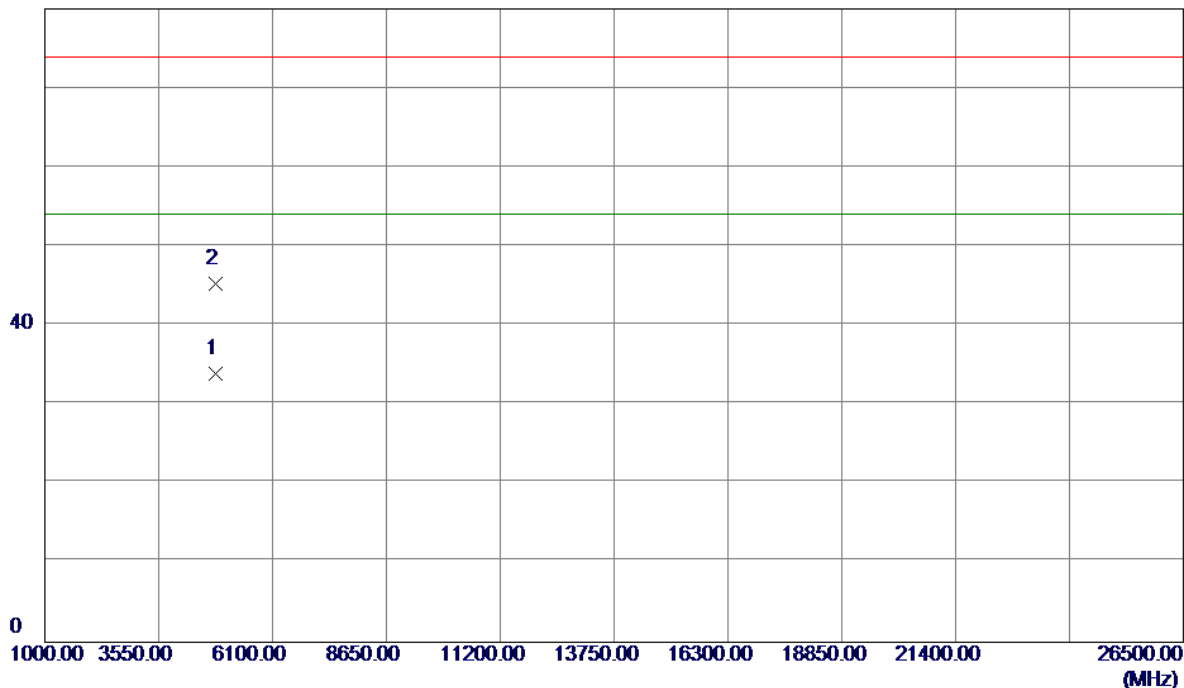


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	30.64	33.88	64.52	74.00	-9.48	Peak	
2	2390.0000	18.37	33.88	52.25	54.00	-1.75	AVG	
3	2411.1000	67.37	34.00	101.37	74.00	27.37	Peak	No Limit
4 *	2411.1000	58.88	34.00	92.88	54.00	38.88	AVG	No Limit

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

Horizontal

80 dBuV/m

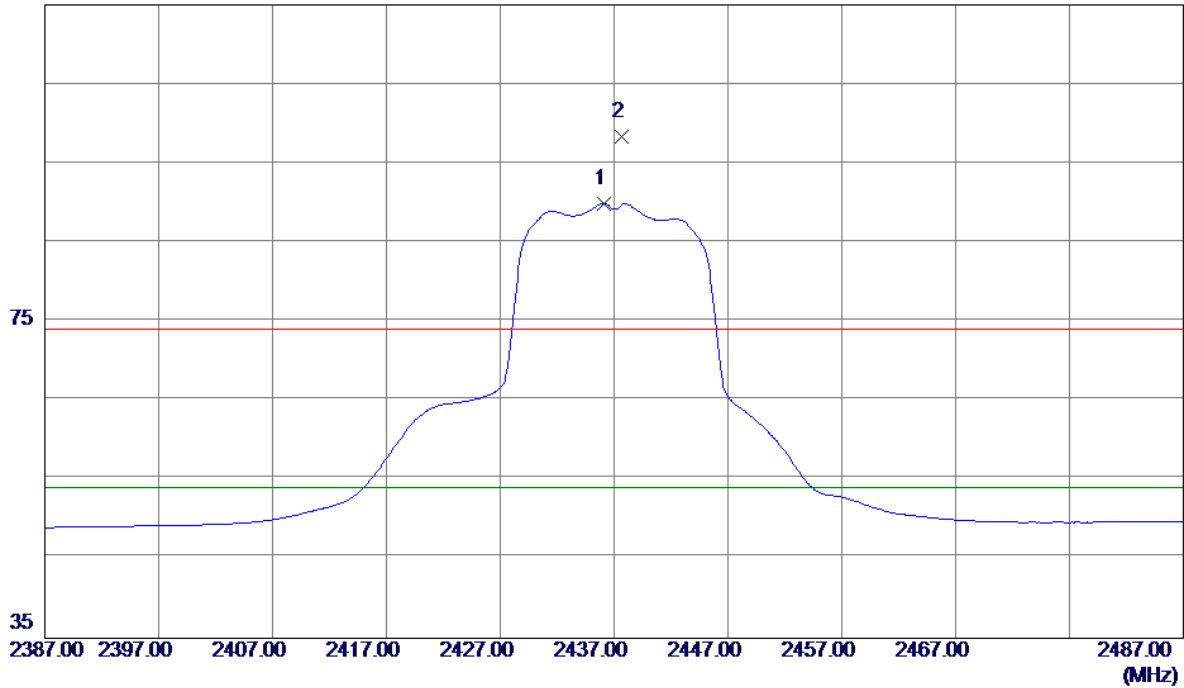


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.0000	28.43	5.45	33.88	74.00	-40.12	Peak	
2 *	4824.0000	39.85	5.45	45.30	74.00	-28.70	Peak	

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

Vertical

115 dBuV/m

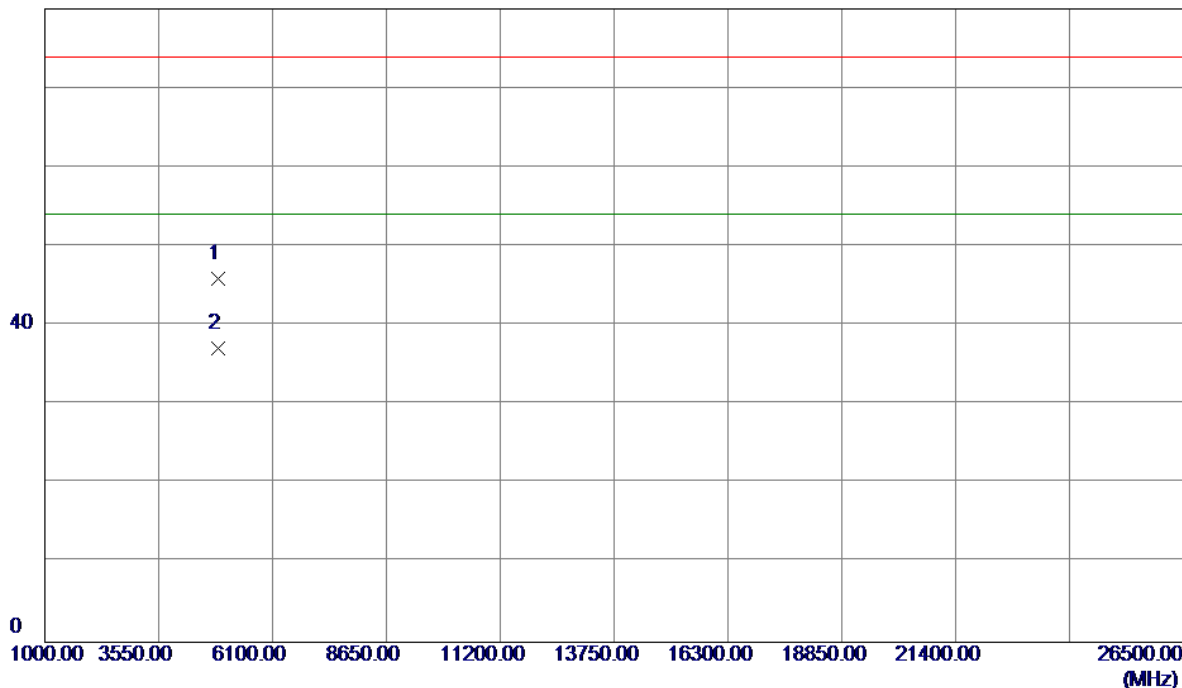


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.1000	55.78	34.14	89.92	54.00	35.92	AVG	No Limit
2	2437.7000	64.19	34.15	98.34	74.00	24.34	Peak	No Limit

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

Vertical

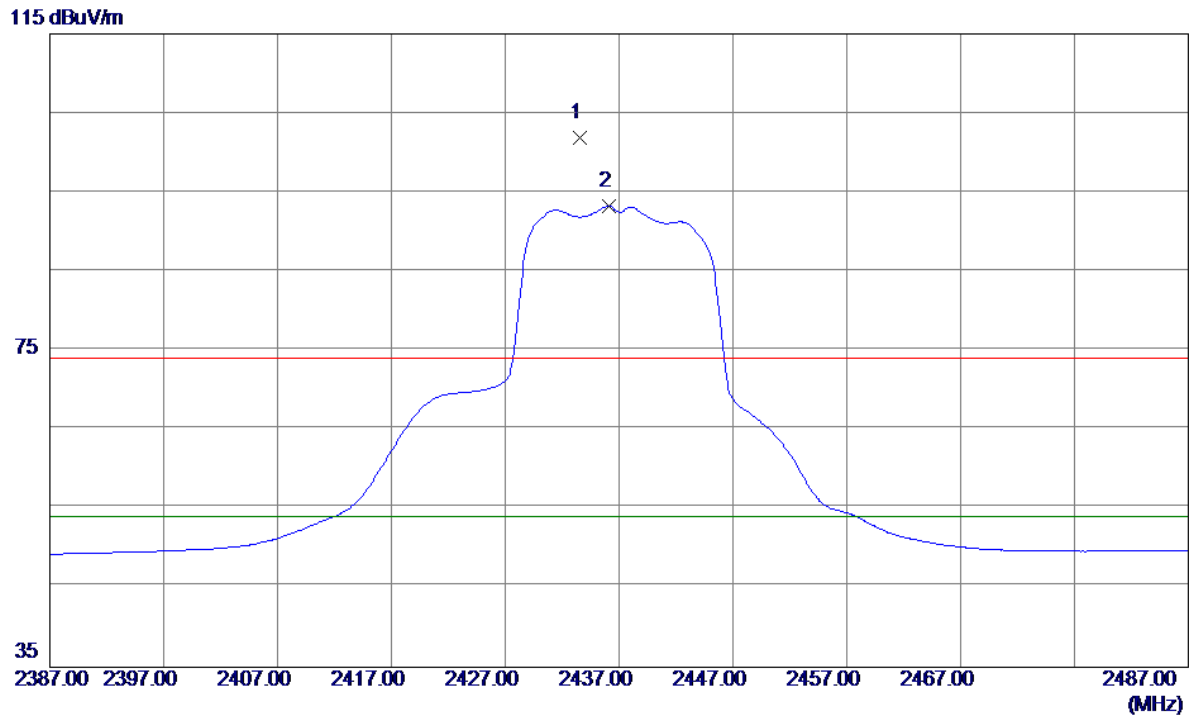
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.2000	40.25	5.69	45.94	74.00	-28.06	Peak	
2 *	4874.0000	31.35	5.70	37.05	54.00	-16.95	AVG	

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

Horizontal

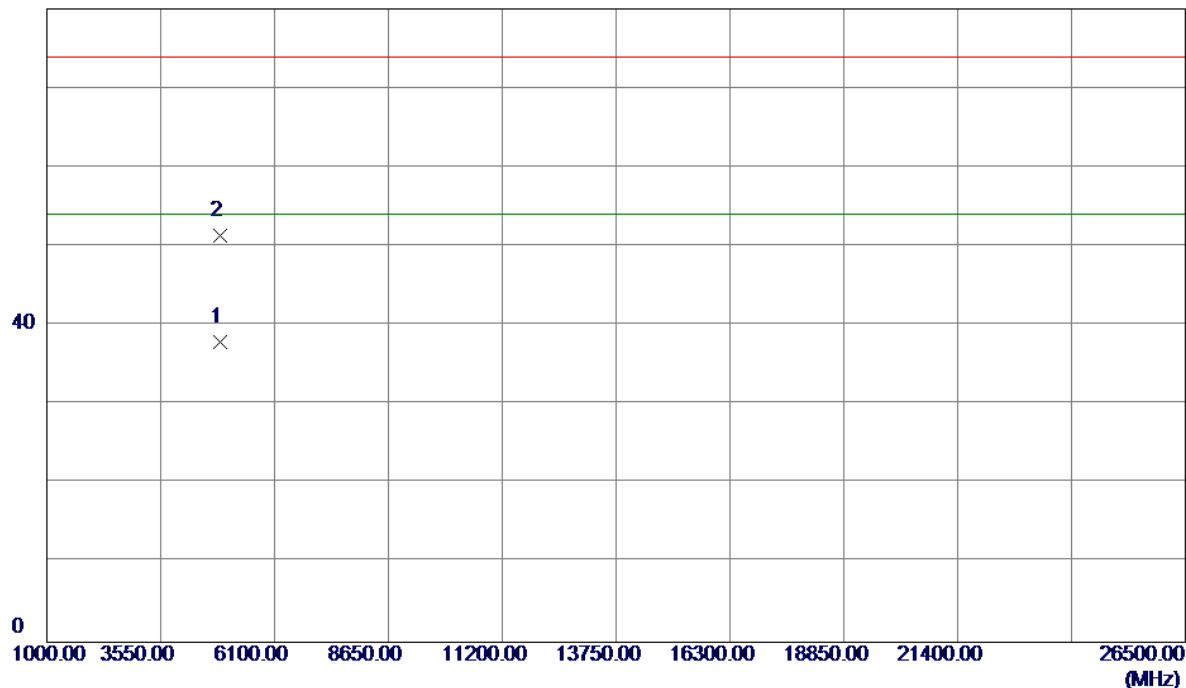


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.6000	67.68	34.13	101.81	74.00	27.81	Peak	No Limit
2 *	2436.1000	59.09	34.14	93.23	54.00	39.23	AVG	No Limit

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

Horizontal

80 dBuV/m

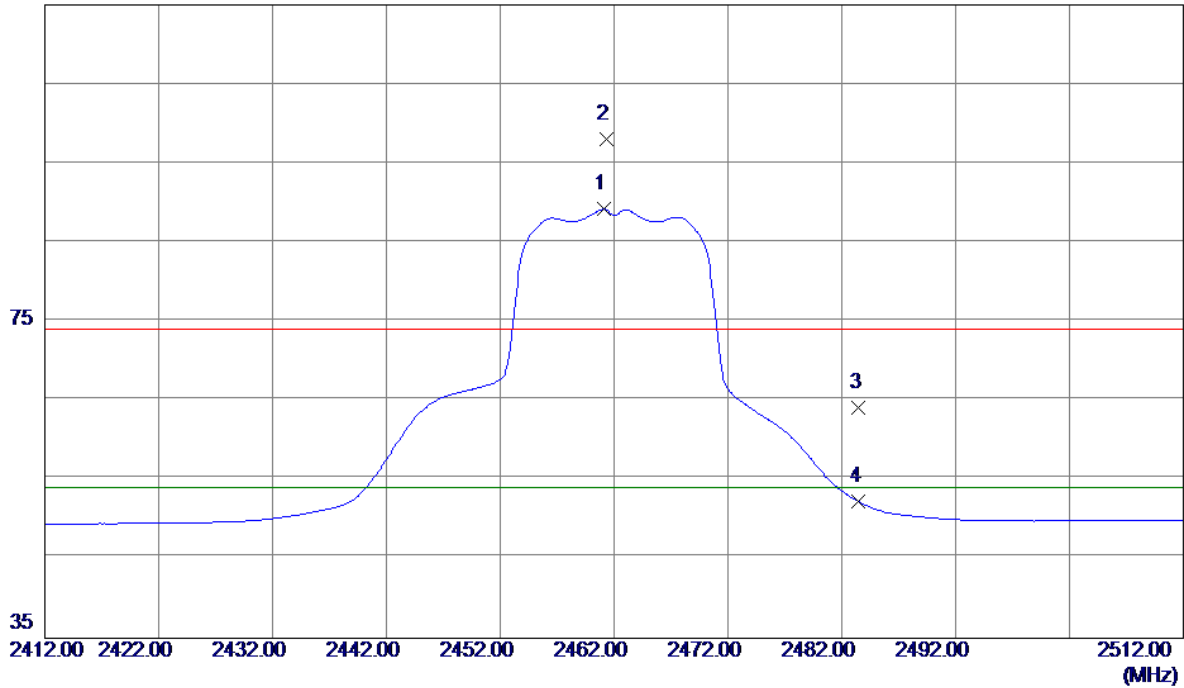


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0000	32.25	5.70	37.95	54.00	-16.05	AVG	
2	4875.6000	45.64	5.71	51.35	74.00	-22.65	Peak	

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

Vertical

115 dBuV/m

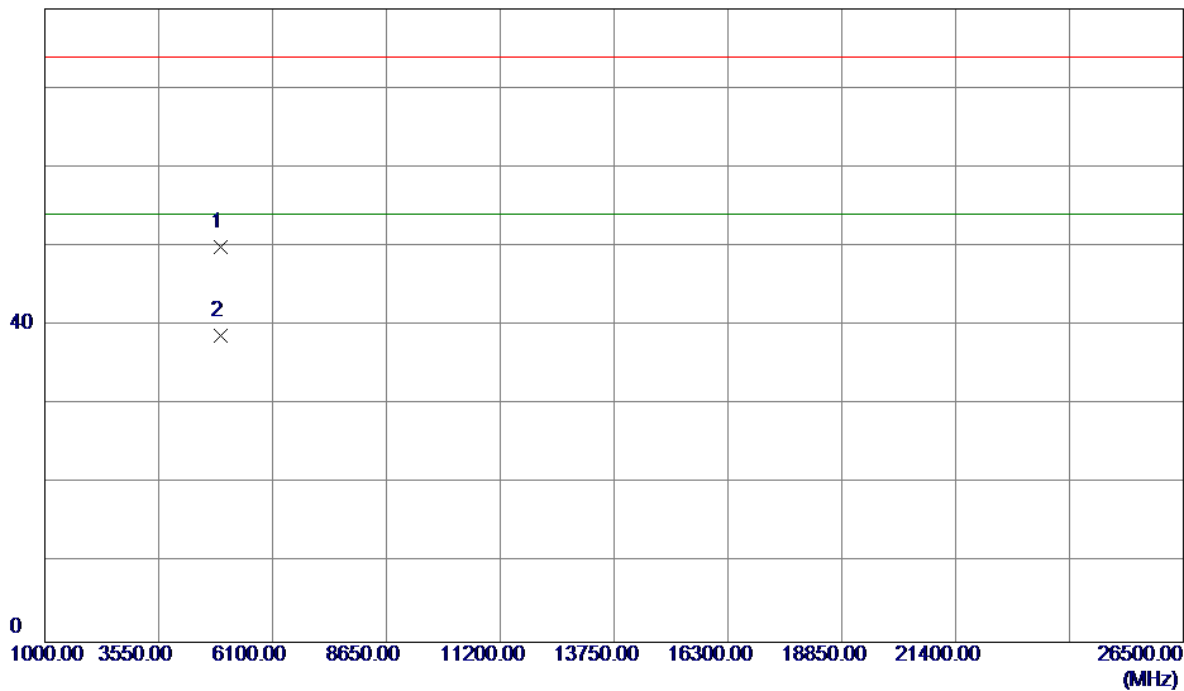


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.1000	54.90	34.29	89.19	54.00	35.19	AVG	No Limit
2	2461.3000	63.74	34.29	98.03	74.00	24.03	Peak	No Limit
3	2483.5000	29.70	34.41	64.11	74.00	-9.89	Peak	
4	2483.5000	17.85	34.41	52.26	54.00	-1.74	AVG	

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

Vertical

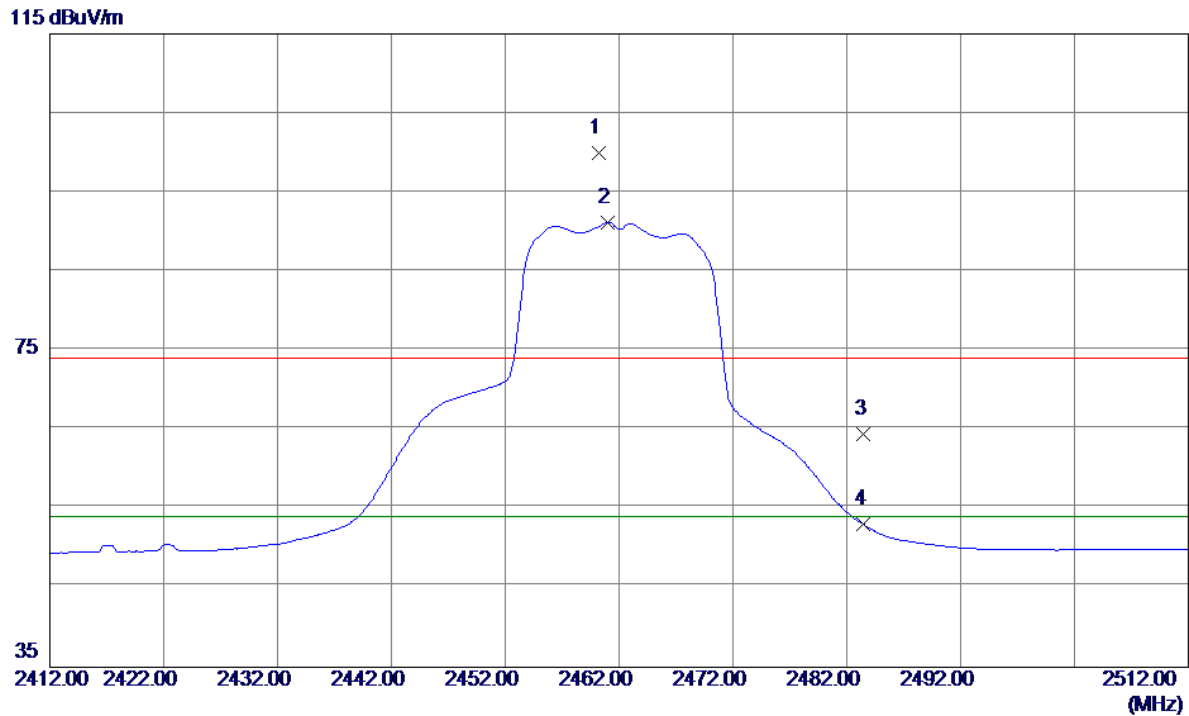
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.4000	44.03	5.94	49.97	74.00	-24.03	Peak	
2 *	4925.0000	32.79	5.95	38.74	54.00	-15.26	AVG	

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

Horizontal

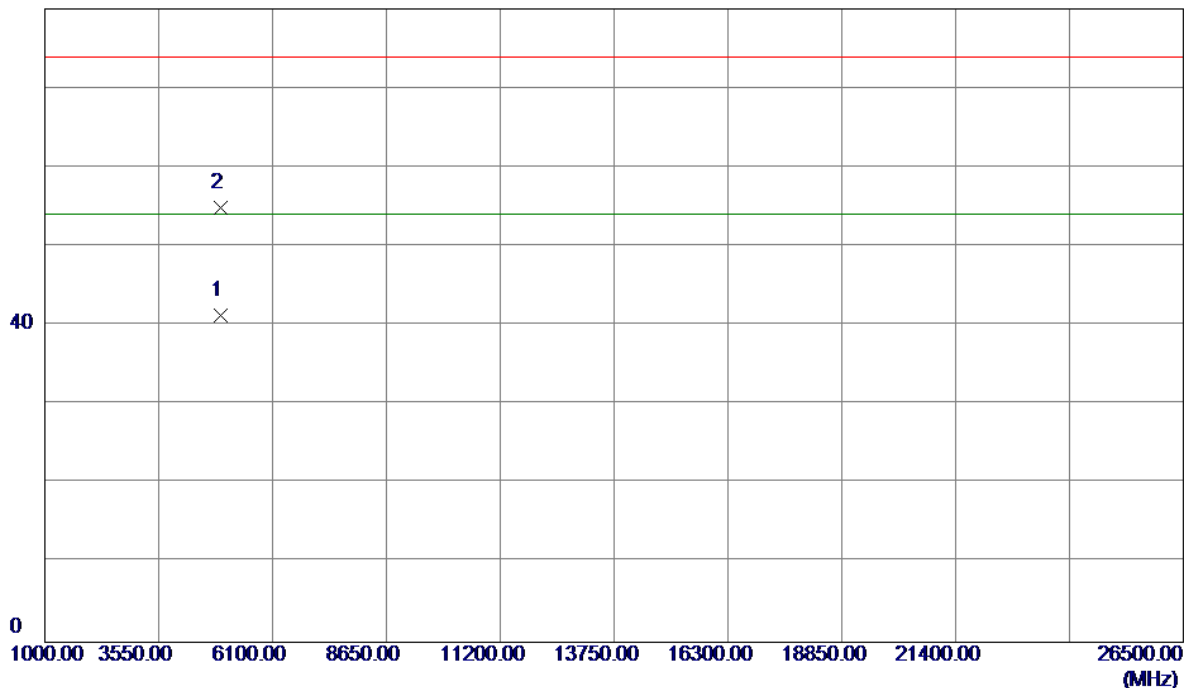


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.2000	65.72	34.28	100.00	74.00	26.00	Peak	No Limit
2 *	2461.0000	56.88	34.29	91.17	54.00	37.17	AVG	No Limit
3	2483.5000	30.08	34.41	64.49	74.00	-9.51	Peak	
4	2483.5000	18.61	34.41	53.02	54.00	-0.98	AVG	

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

Horizontal

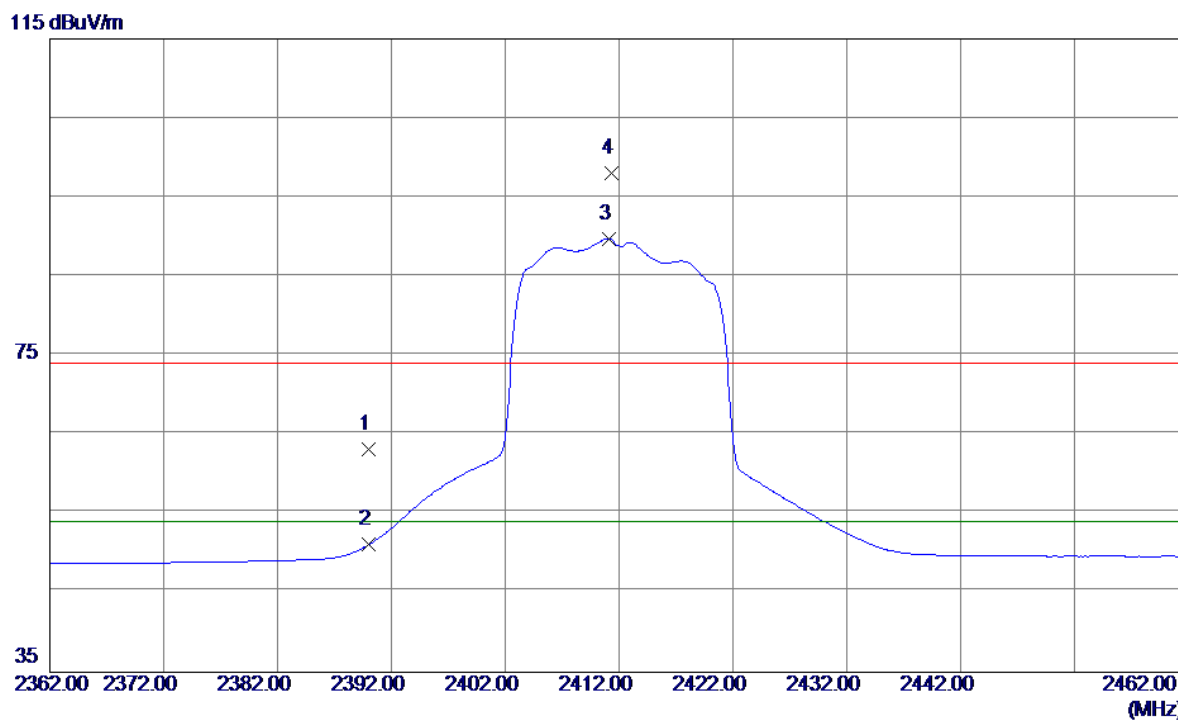
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.2000	35.28	5.94	41.22	54.00	-12.78	AVG	
2	4926.2000	48.90	5.95	54.85	74.00	-19.15	Peak	

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

Vertical

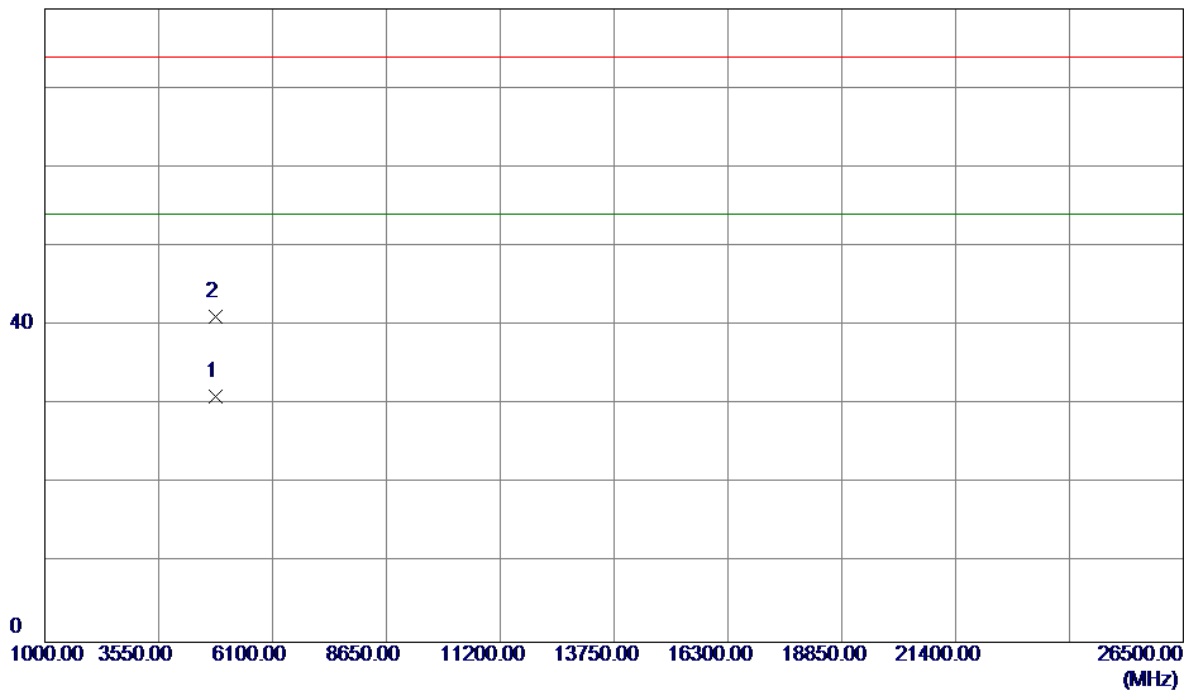


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.28	33.88	63.16	74.00	-10.84	Peak	
2	2390.0000	17.21	33.88	51.09	54.00	-2.91	AVG	
3 *	2411.1000	55.79	34.00	89.79	54.00	35.79	AVG	No Limit
4	2411.3000	64.07	34.00	98.07	74.00	24.07	Peak	No Limit

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

Vertical

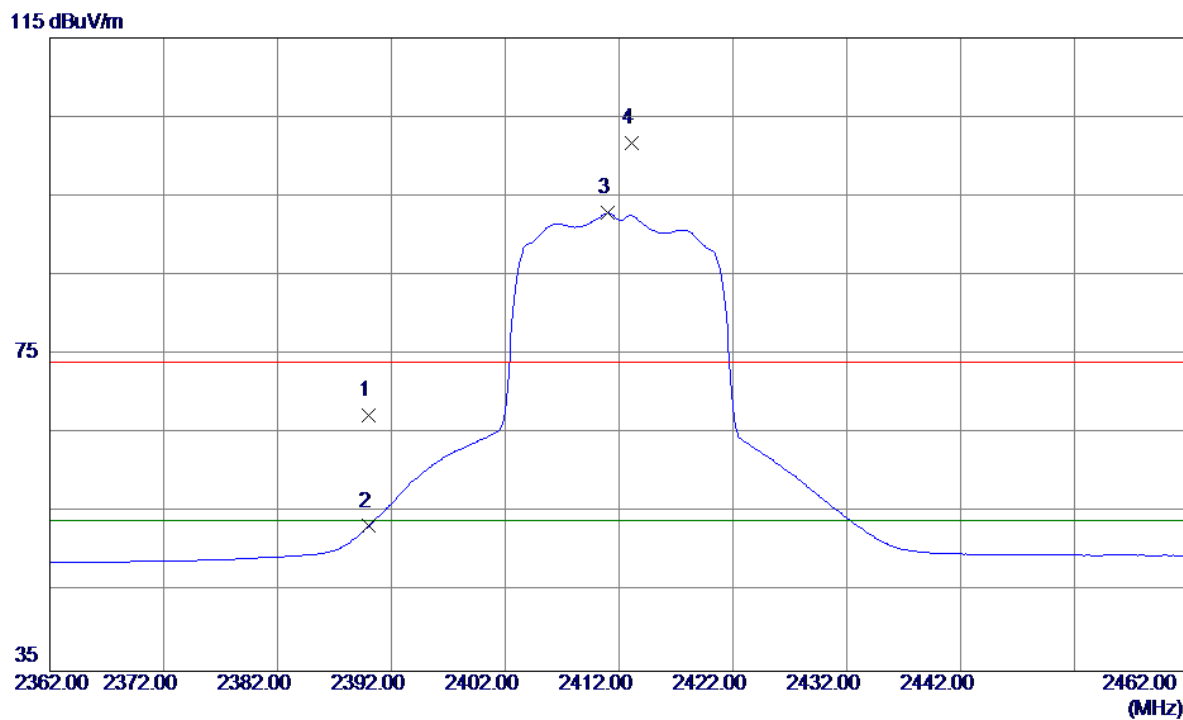
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.6000	25.56	5.45	31.01	54.00	-22.99	AVG	
2	4825.6000	35.63	5.46	41.09	74.00	-32.91	Peak	

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

Horizontal

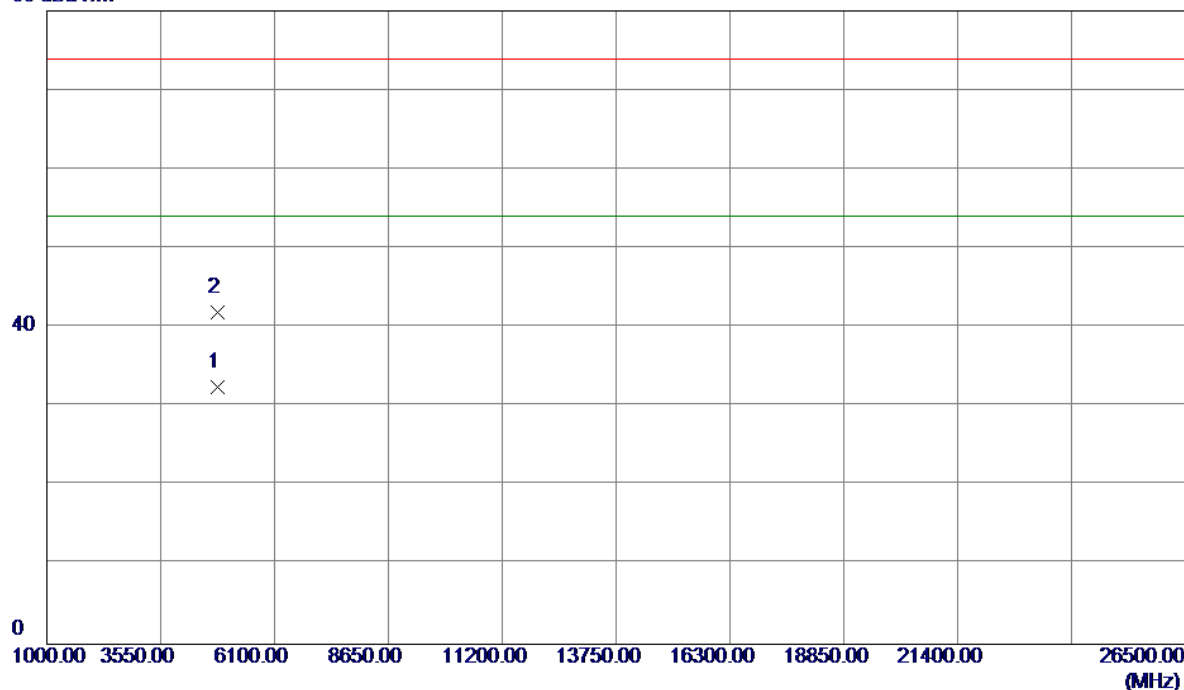


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	33.46	33.88	67.34	74.00	-6.66	Peak	
2	2390.0000	19.44	33.88	53.32	54.00	-0.68	AVG	
3 *	2411.0000	58.85	34.00	92.85	54.00	38.85	AVG	No Limit
4	2413.1000	67.66	34.01	101.67	74.00	27.67	Peak	No Limit

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

Horizontal

80 dBuV/m

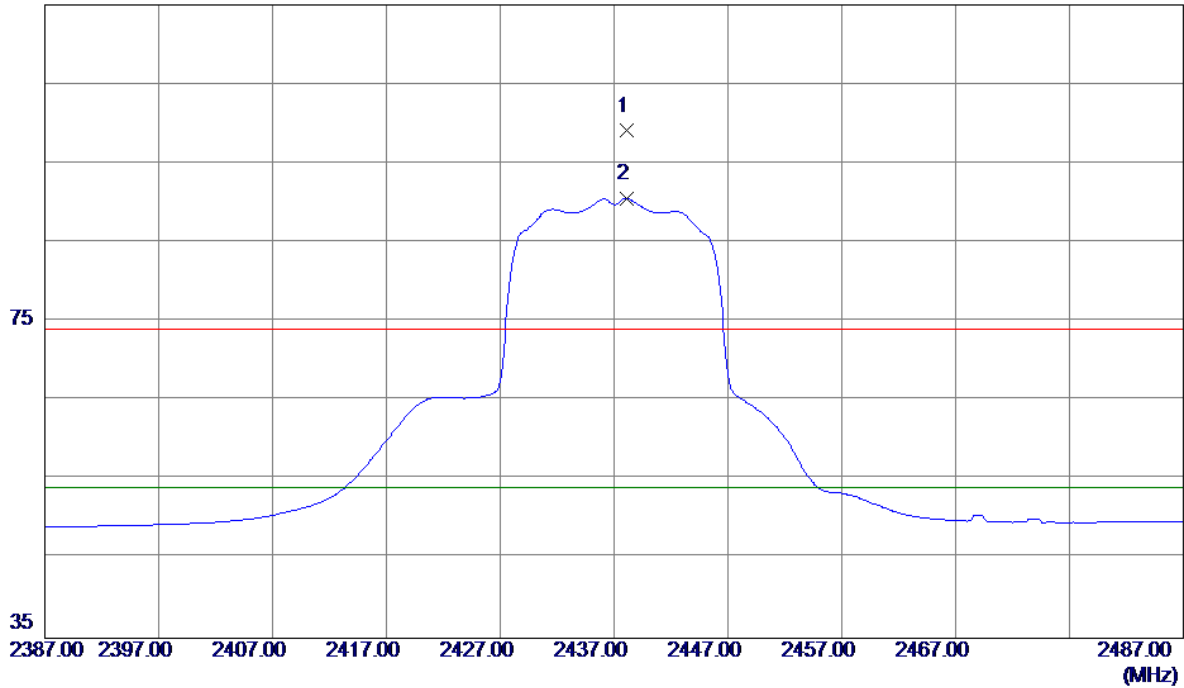


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.6000	27.05	5.45	32.50	54.00	-21.50	AVG	
2	4824.0000	36.40	5.45	41.85	74.00	-32.15	Peak	

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

Vertical

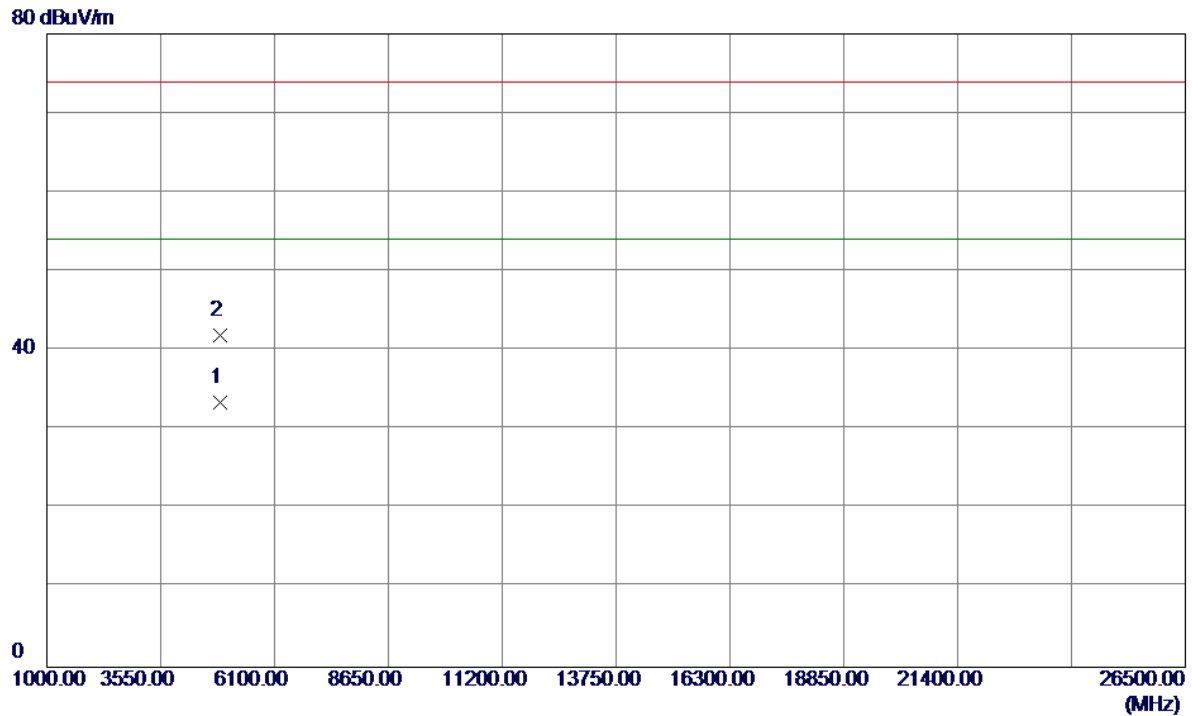
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2438.1000	64.93	34.15	99.08	74.00	25.08	Peak	No Limit
2 *	2438.1000	56.40	34.15	90.55	54.00	36.55	AVG	No Limit

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

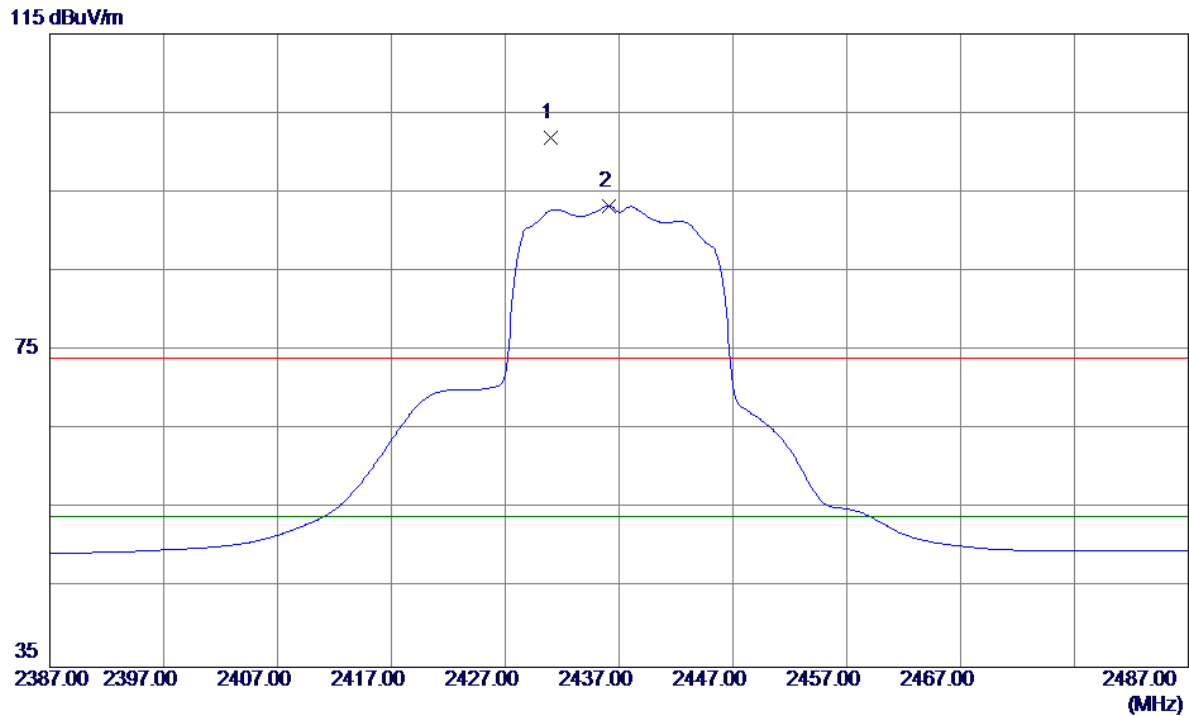
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.0000	27.69	5.69	33.38	54.00	-20.62	AVG	
2	4876.6000	36.28	5.71	41.99	74.00	-32.01	Peak	

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

Horizontal

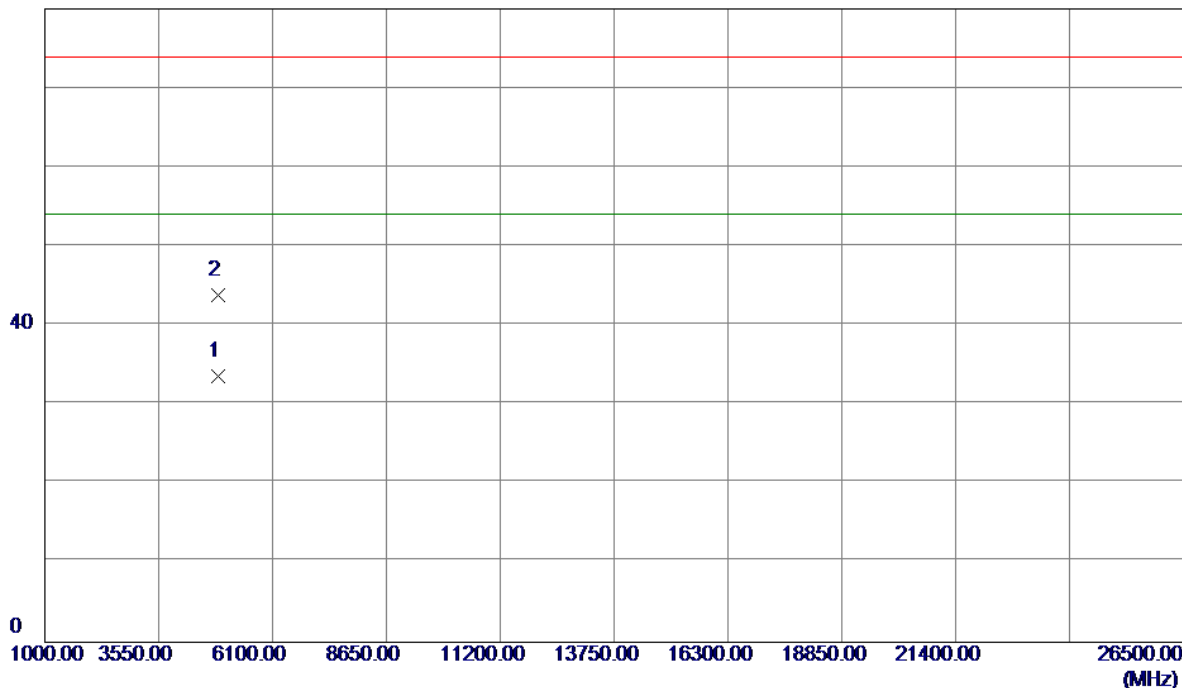


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2431.0000	67.70	34.11	101.81	74.00	27.81	Peak	No Limit
2 *	2436.1000	59.16	34.14	93.30	54.00	39.30	AVG	No Limit

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

Horizontal

80 dBuV/m

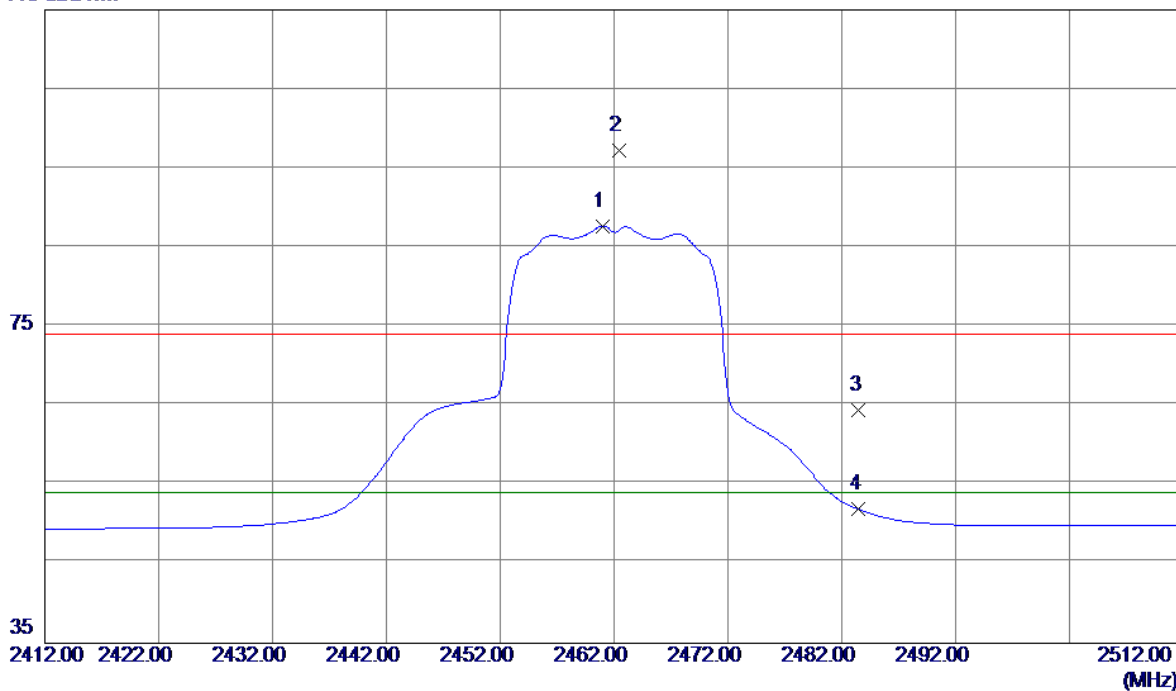


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4872.8000	27.98	5.69	33.67	54.00	-20.33	AVG	
2	4873.0000	38.15	5.69	43.84	74.00	-30.16	Peak	

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

Vertical

115 dBuV/m

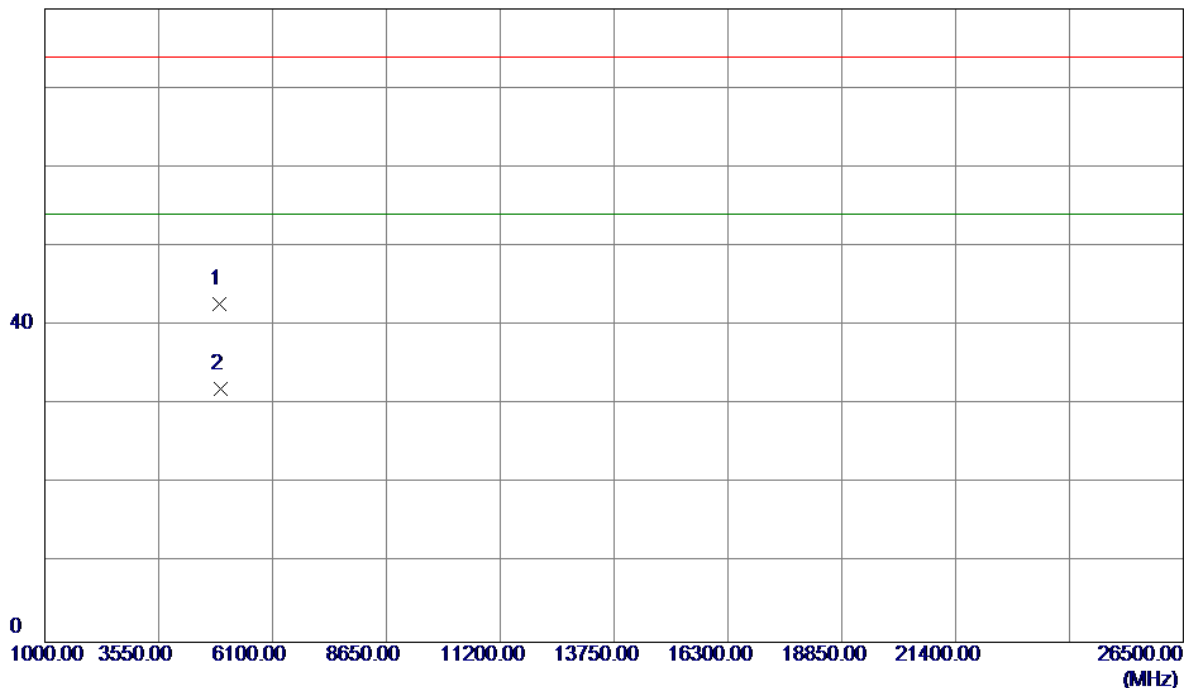


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	53.42	34.29	87.71	54.00	33.71	AVG	No Limit
2	2462.4000	63.02	34.29	97.31	74.00	23.31	Peak	No Limit
3	2483.5000	30.08	34.41	64.49	74.00	-9.51	Peak	
4	2483.5000	17.50	34.41	51.91	54.00	-2.09	AVG	

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

Vertical

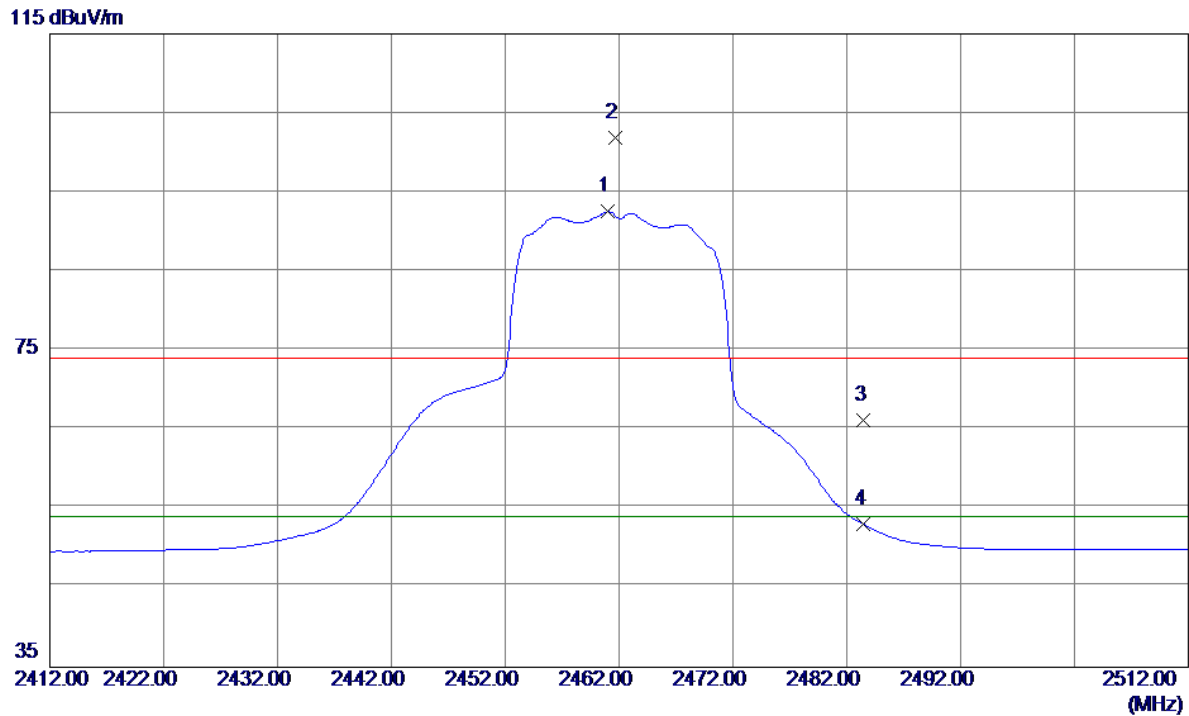
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4922.4000	36.83	5.93	42.76	74.00	-31.24	Peak	
2 *	4926.6000	26.02	5.95	31.97	54.00	-22.03	AVG	

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

Horizontal

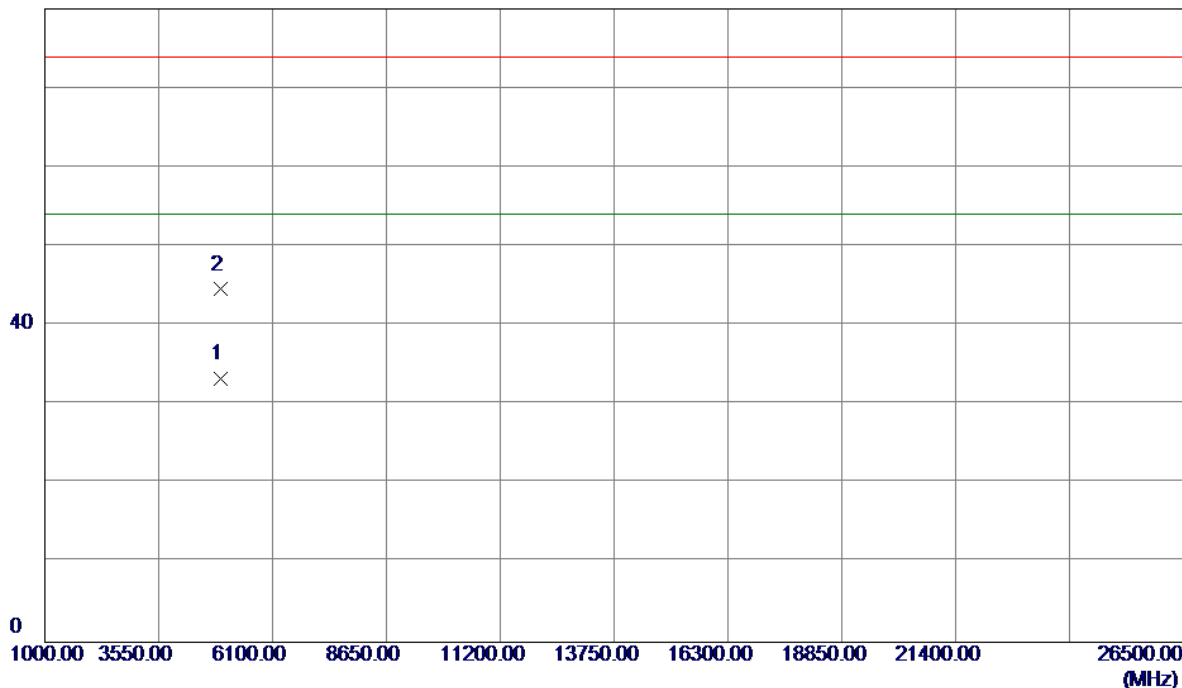


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.0000	58.24	34.29	92.53	54.00	38.53	AVG	No Limit
2	2461.7000	67.52	34.29	101.81	74.00	27.81	Peak	No Limit
3	2483.5000	31.79	34.41	66.20	74.00	-7.80	Peak	
4	2483.5000	18.61	34.41	53.02	54.00	-0.98	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 *	4925.2000	27.34	5.95	33.29	54.00	-20.71	AVG	
2	4926.6000	38.61	5.95	44.56	74.00	-29.44	Peak	

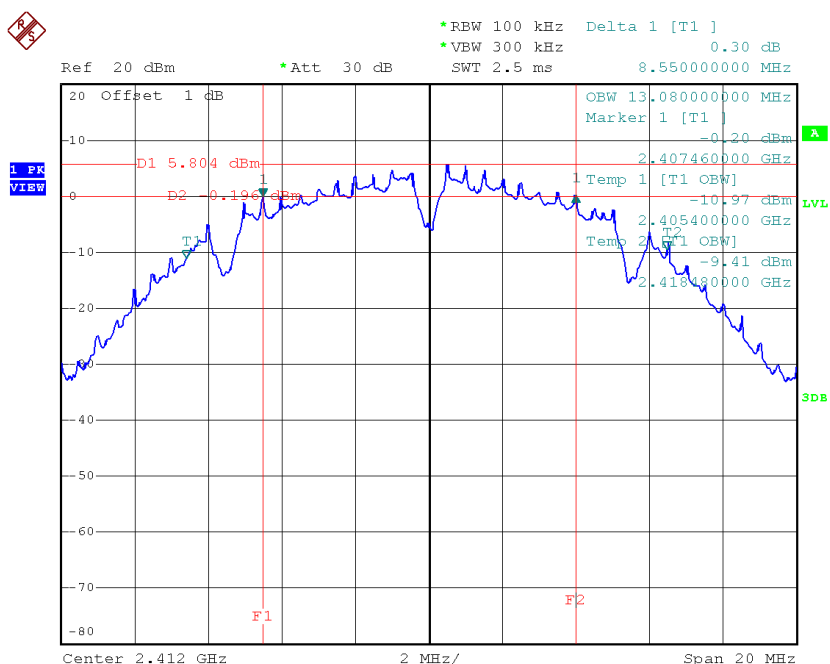
ATTACHMENT E - BANDWIDTH

For Chip antenna

Test Mode : TX B Mode_CH01/06/11

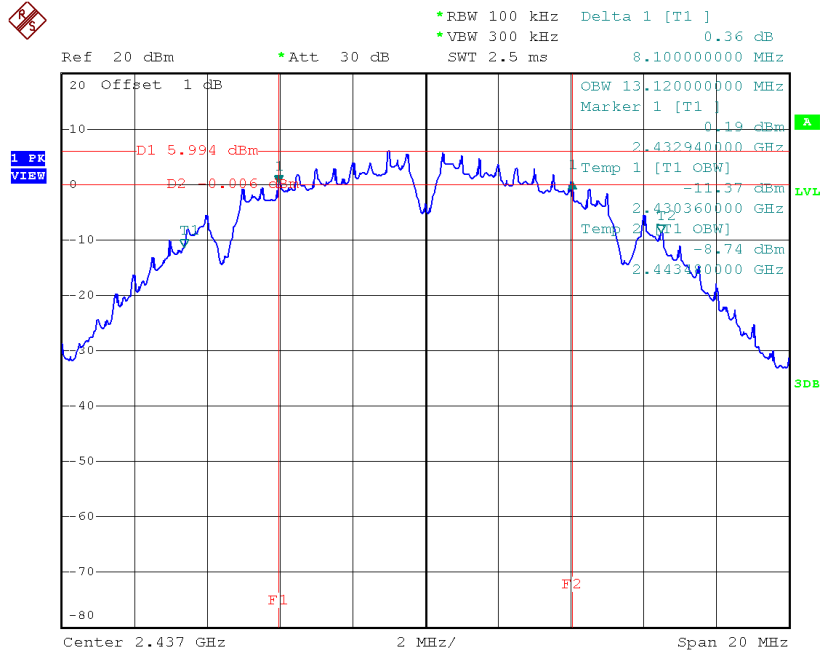
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.55	13.08	500	Complies
2437	8.10	13.12	500	Complies
2462	9.54	13.08	500	Complies

TX CH01



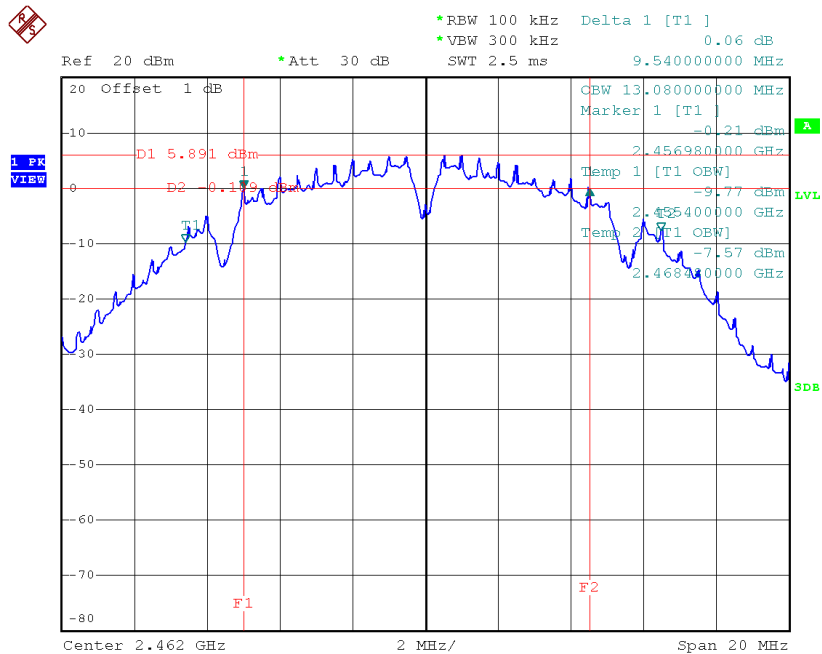
Date: 3.NOV.2016 13:37:00

TX CH06



Date: 3.NOV.2016 13:39:43

TX CH11

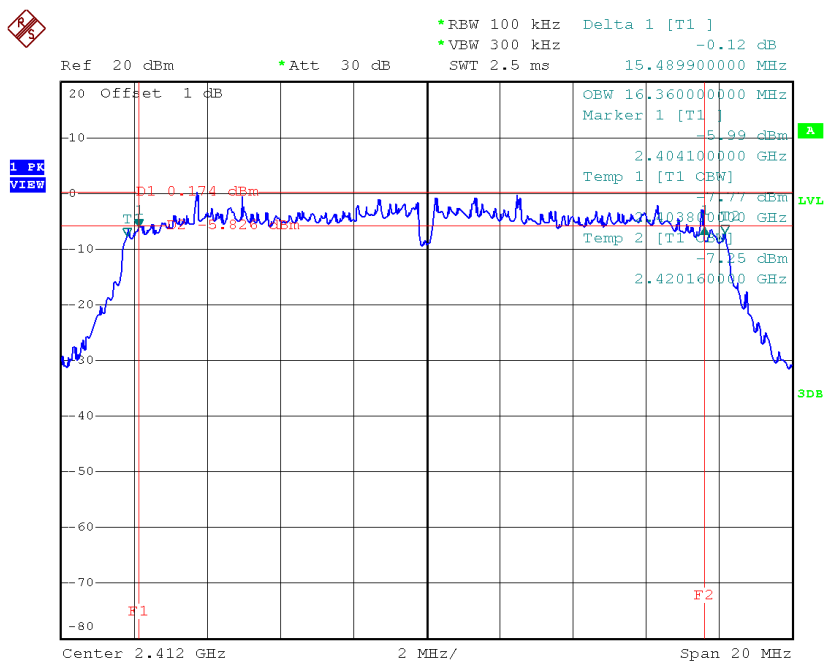


Date: 3.NOV.2016 13:41:48

Test Mode: TX G Mode_CH01/06/11

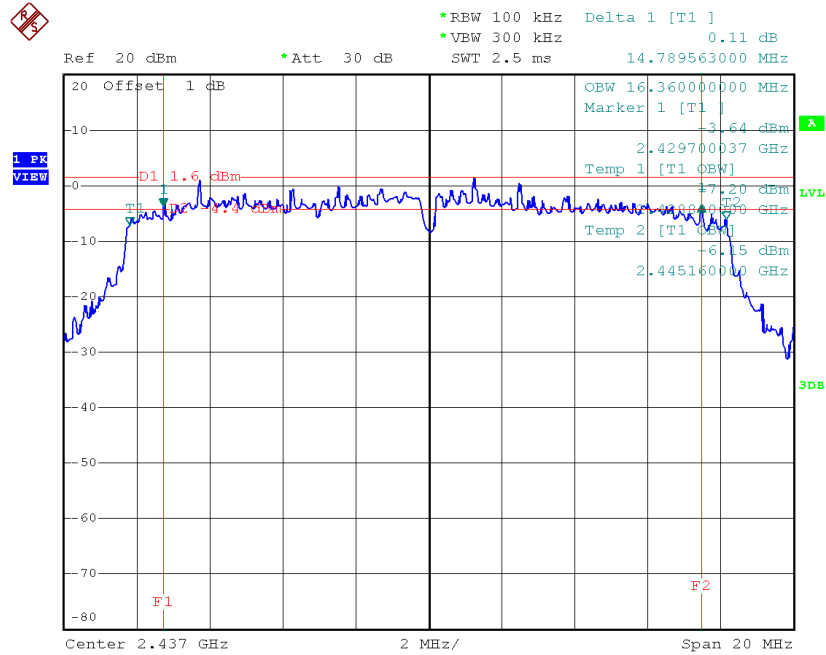
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.49	16.36	500	Complies
2437	14.79	16.36	500	Complies
2462	14.84	16.36	500	Complies

TX CH01



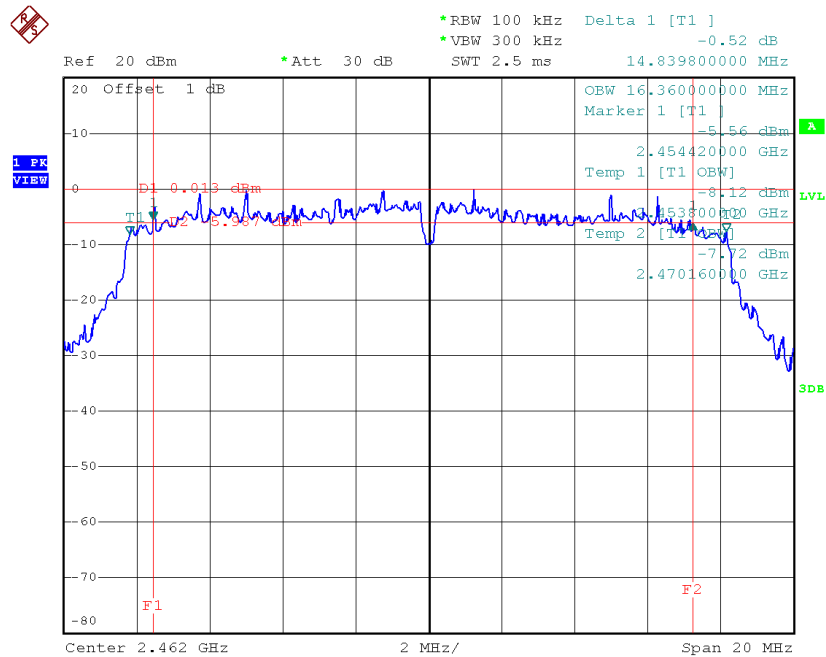
Date: 3.NOV.2016 13:43:59

TX CH06



Date: 3.NOV.2016 13:46:11

TX CH11

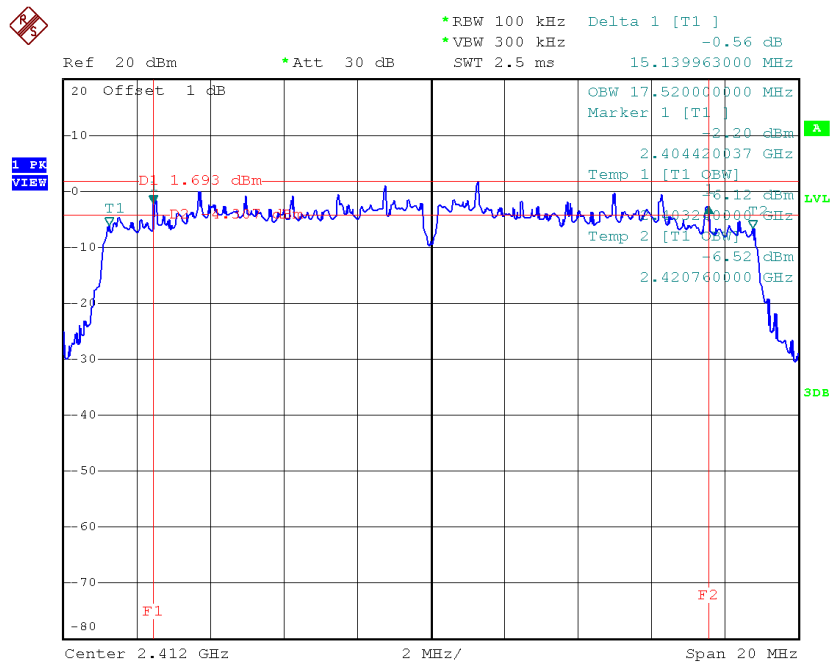


Date: 3.NOV.2016 13:48:45

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

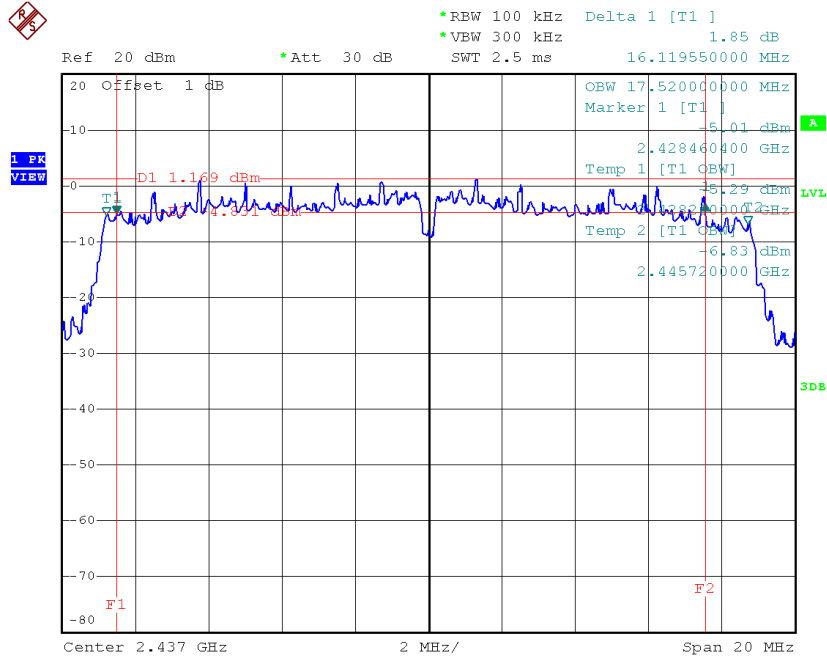
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.14	17.52	500	Complies
2437	16.12	17.52	500	Complies
2462	17.07	17.56	500	Complies

TX CH01



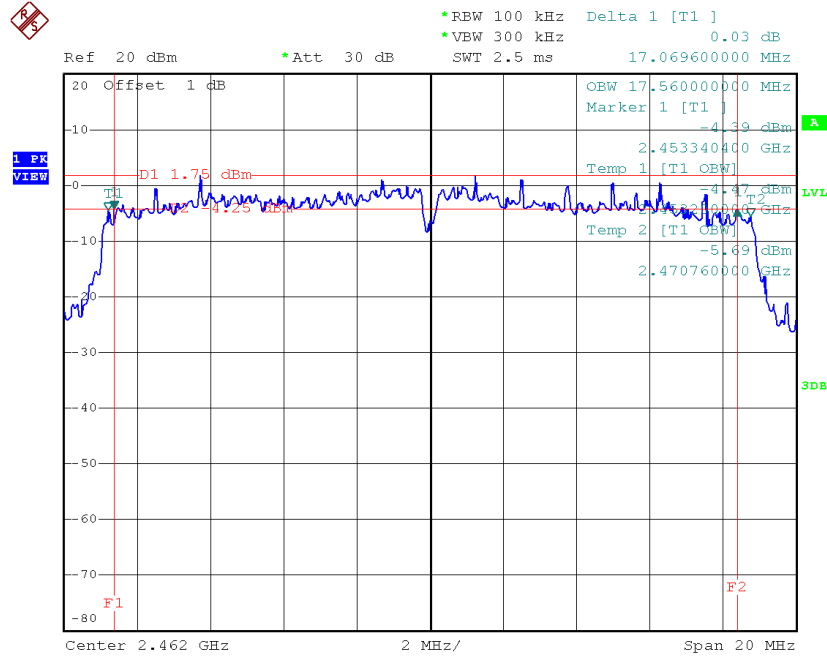
Date: 3.NOV.2016 13:50:32

TX CH06



Date: 3.NOV.2016 13:54:28

TX CH11



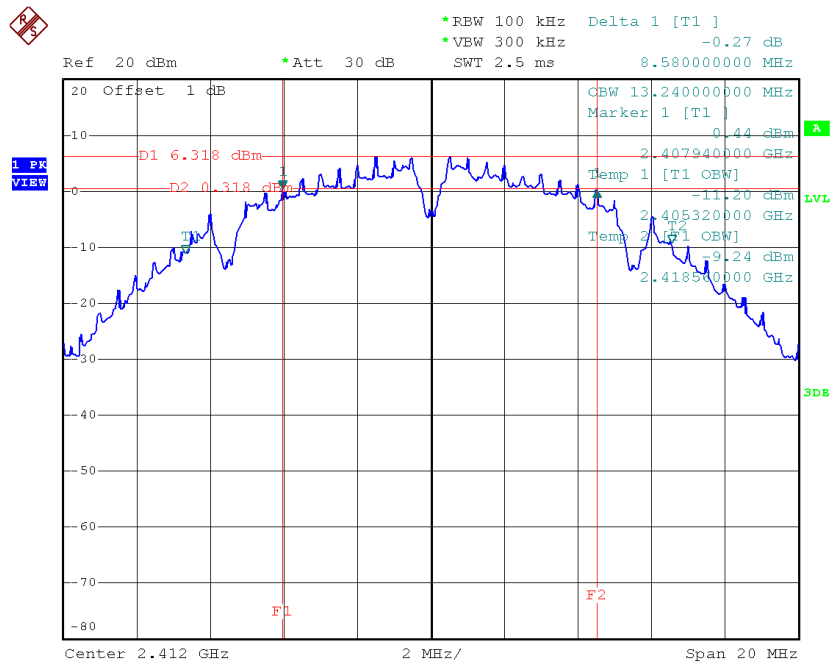
Date: 3.NOV.2016 13:56:04

For Dipole antenna

Test Mode : TX B Mode_CH01/06/11

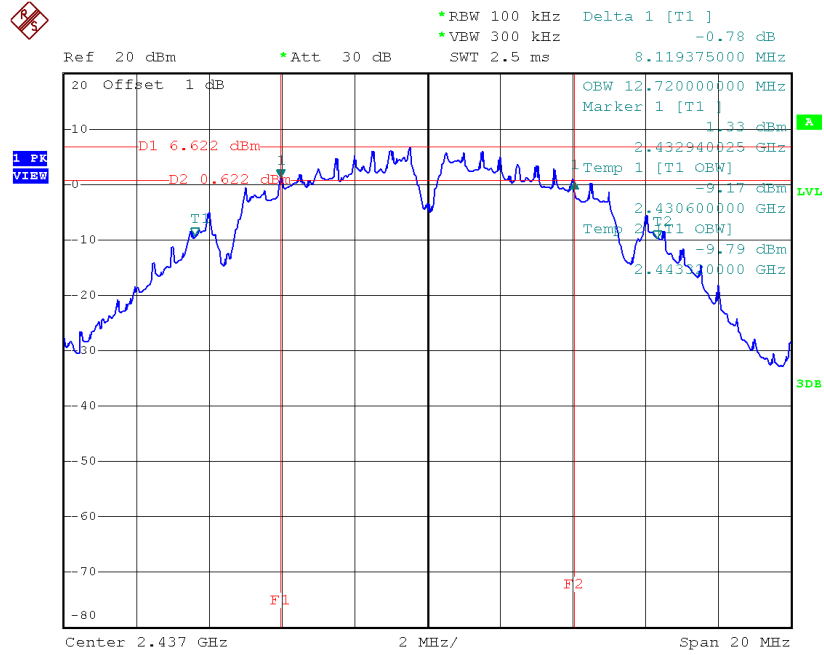
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.58	13.24	500	Complies
2437	8.12	12.72	500	Complies
2462	8.02	12.72	500	Complies

TX CH01



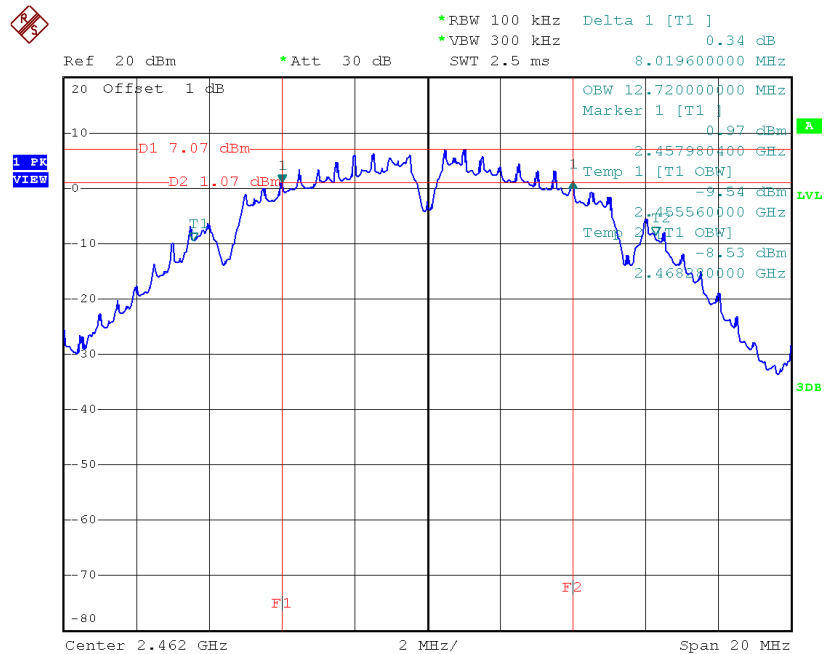
Date: 3.NOV.2016 10:28:08

TX CH06



Date: 3.NOV.2016 10:30:08

TX CH11

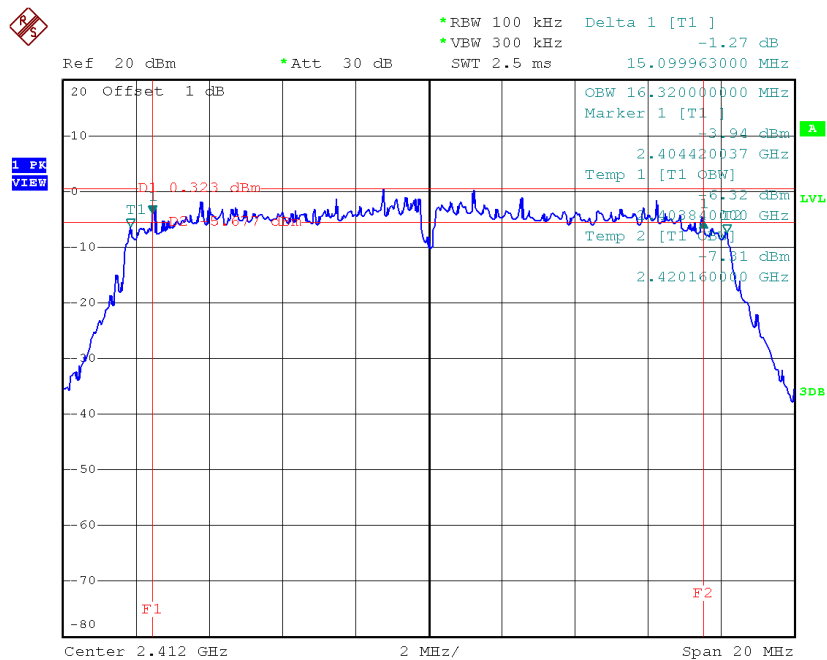


Date: 3.NOV.2016 10:31:43

Test Mode: TX G Mode_CH01/06/11

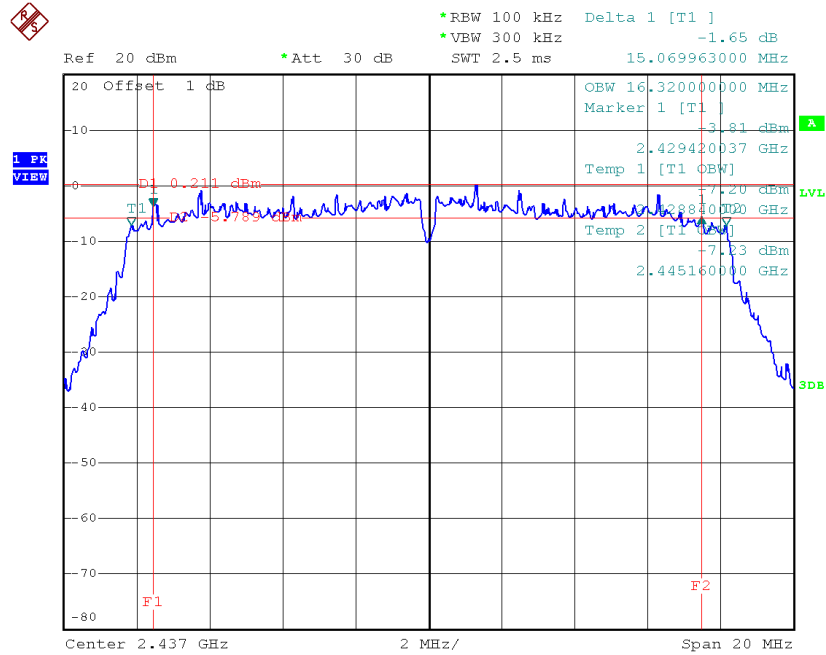
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.10	16.32	500	Complies
2437	15.07	16.32	500	Complies
2462	14.46	16.32	500	Complies

TX CH01



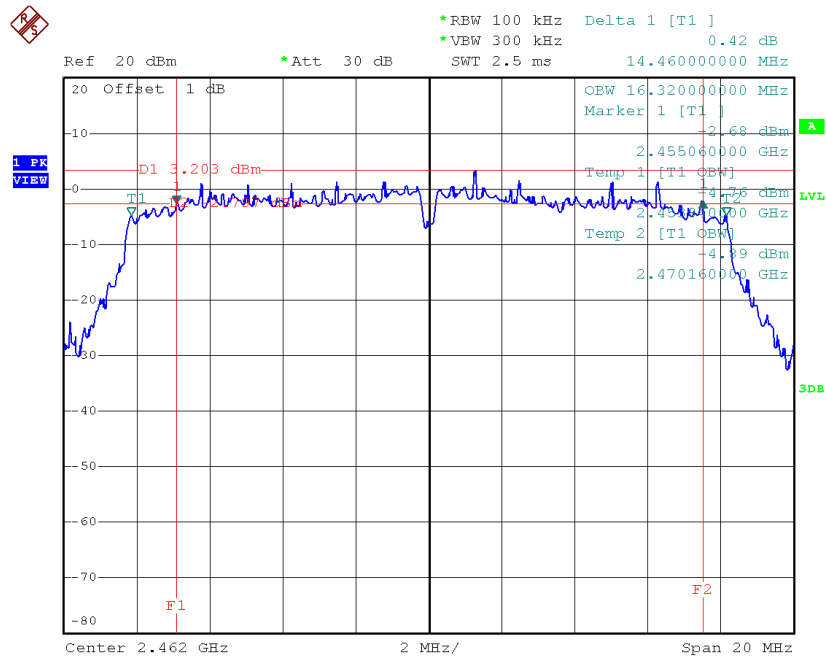
Date: 3.NOV.2016 10:37:08

TX CH06



Date: 3.NOV.2016 10:45:19

TX CH11

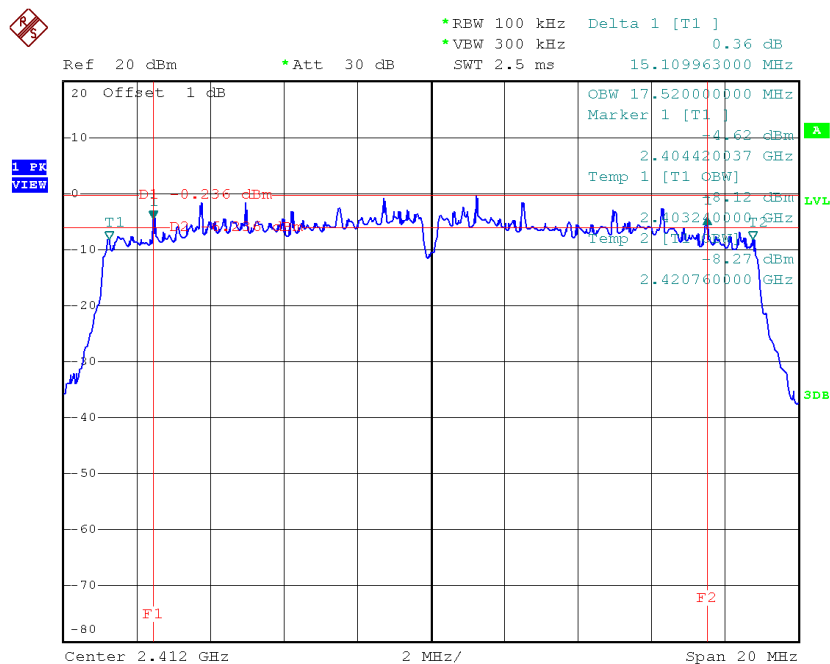


Date: 3.NOV.2016 10:47:01

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

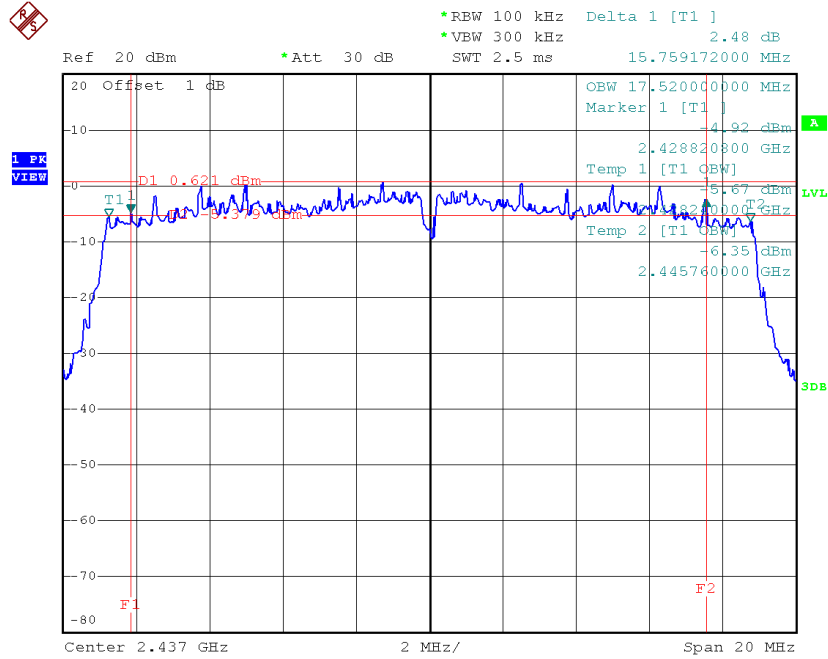
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.11	17.52	500	Complies
2437	15.76	17.52	500	Complies
2462	15.06	17.48	500	Complies

TX CH01



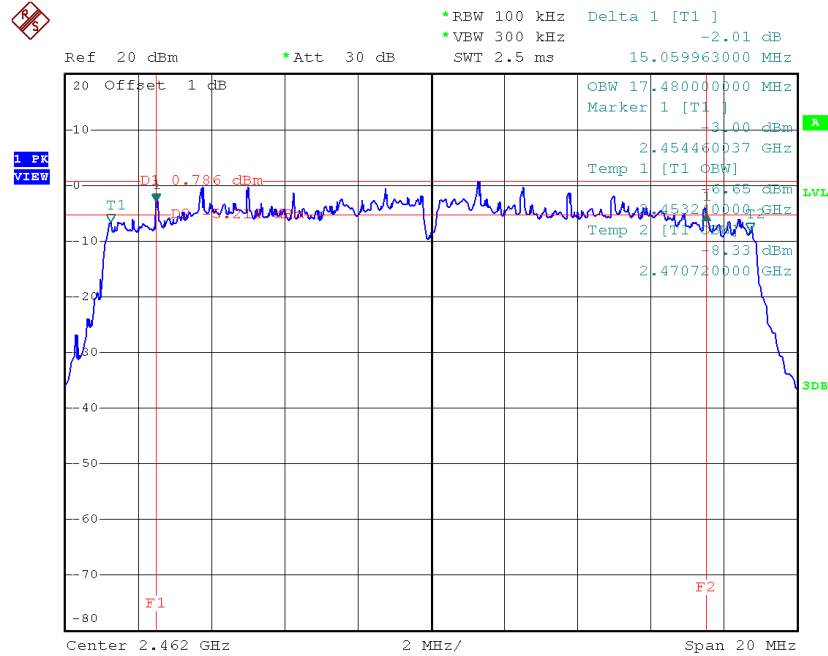
Date: 3.NOV.2016 10:48:59

TX CH06



Date: 3.NOV.2016 10:51:45

TX CH11



Date: 3.NOV.2016 10:53:31

ATTACHMENT F – MAXIMUM CONDUCTED OUTPUT POWER

For Chip antenna

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.25	0.07	30.00	1.00	Complies
2437	18.33	0.07	30.00	1.00	Complies
2462	18.69	0.07	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.26	0.08	30.00	1.00	Complies
2437	19.96	0.10	30.00	1.00	Complies
2462	19.44	0.09	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.08	0.08	30.00	1.00	Complies
2437	19.17	0.08	30.00	1.00	Complies
2462	19.49	0.09	30.00	1.00	Complies

For Dipole antenna

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.51	0.09	30.00	1.00	Complies
2437	19.67	0.09	30.00	1.00	Complies
2462	19.42	0.09	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.01	0.10	30.00	1.00	Complies
2437	22.13	0.16	30.00	1.00	Complies
2462	20.29	0.11	30.00	1.00	Complies

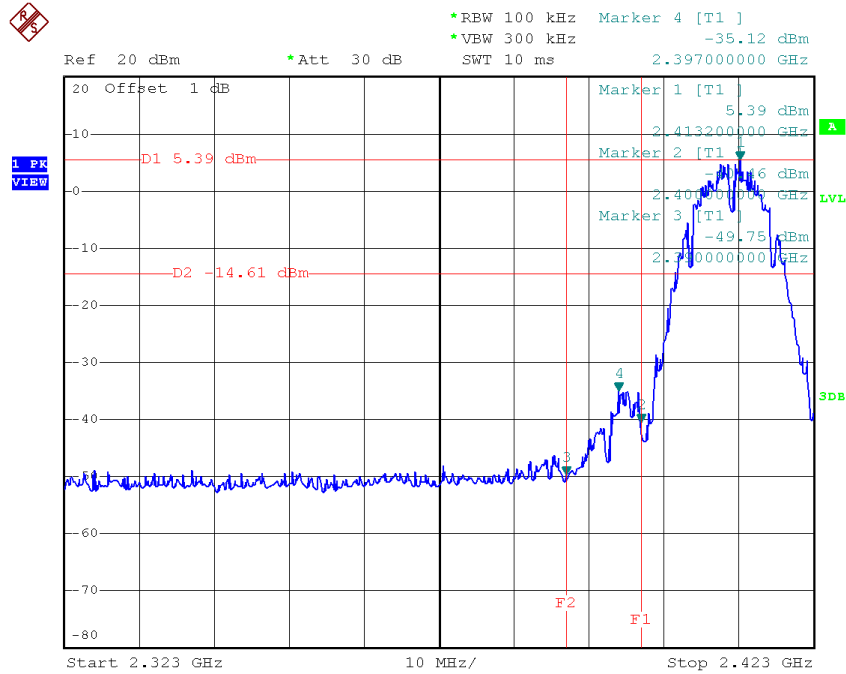
Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.93	0.08	30.00	1.00	Complies
2437	20.99	0.13	30.00	1.00	Complies
2462	20.18	0.10	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

For Chip antenna

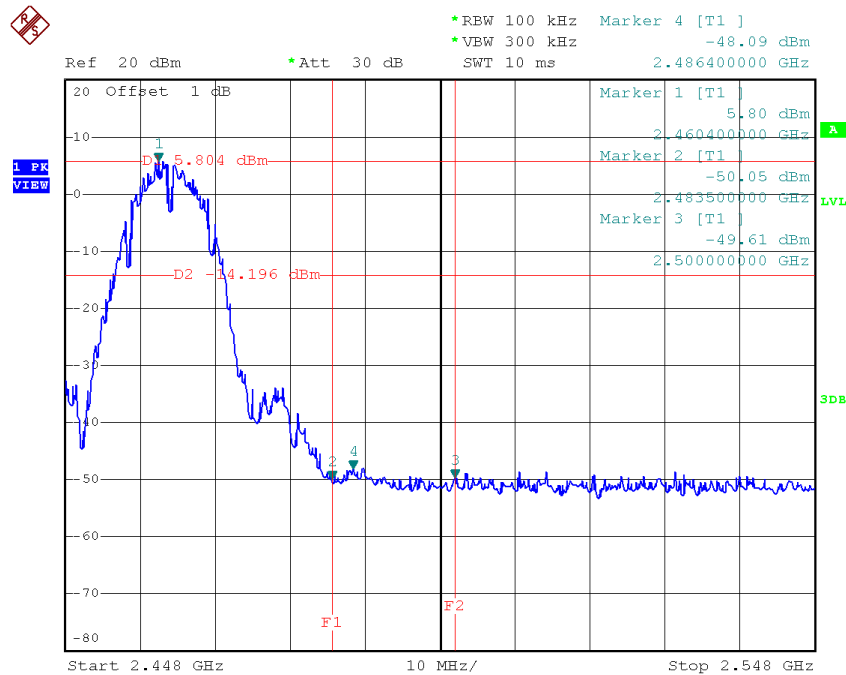
Test Mode : TX B Mode

TX B mode CH01



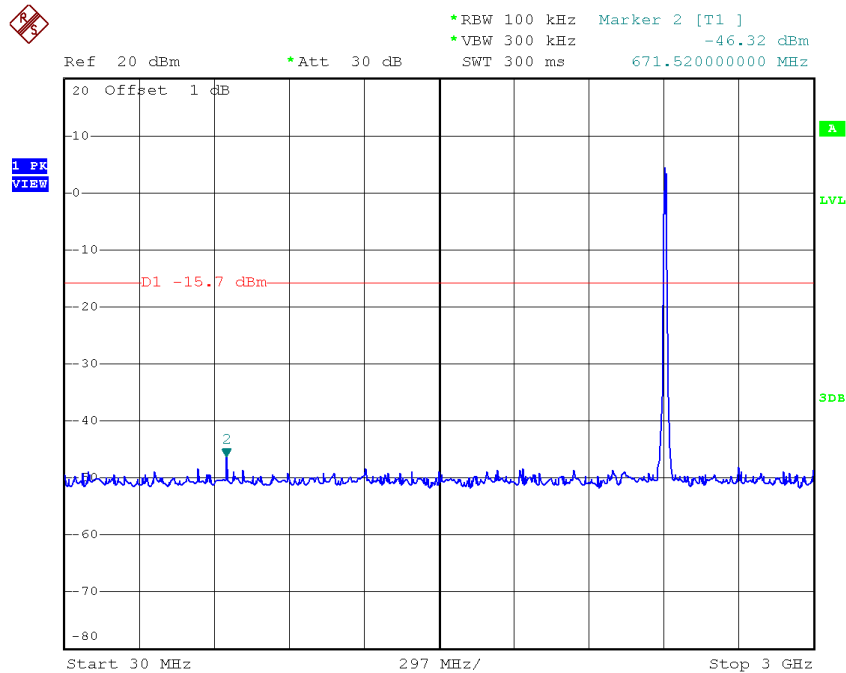
Date: 3.NOV.2016 13:37:38

TX B mode CH11

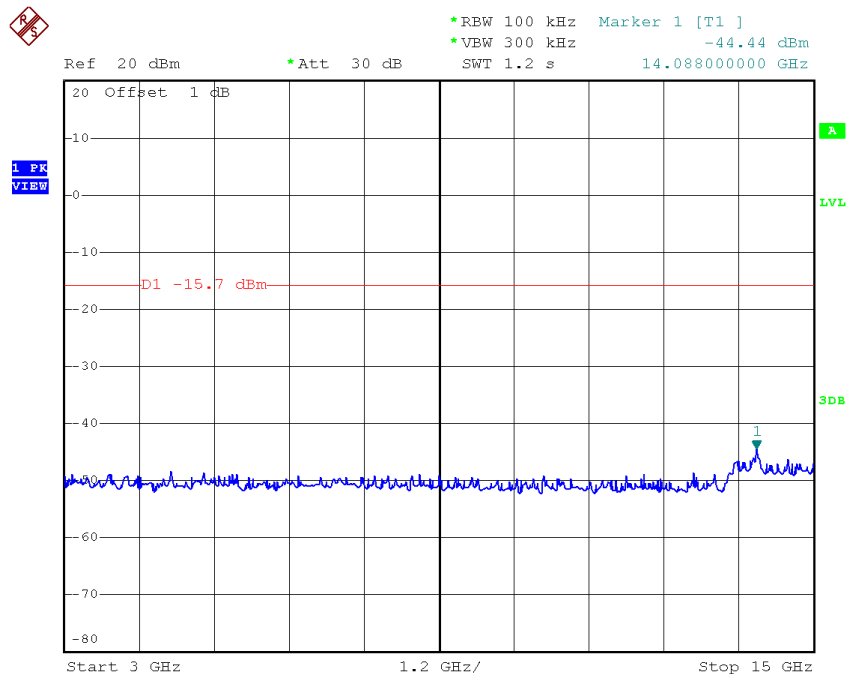


Date: 3.NOV.2016 13:42:25

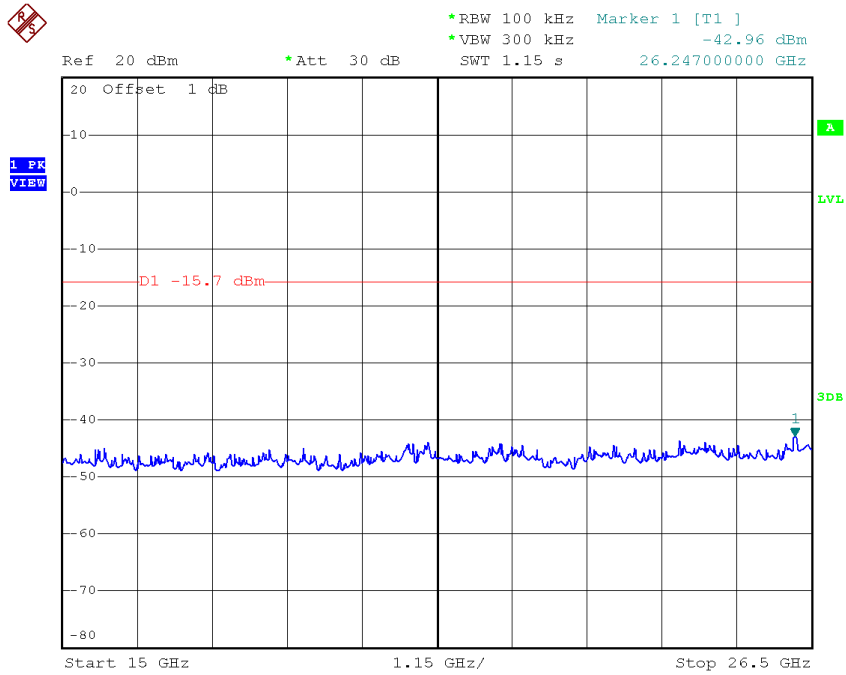
TX B mode CH01 (10 Harmonic of the frequency)



Date: 3.NOV.2016 13:37:14

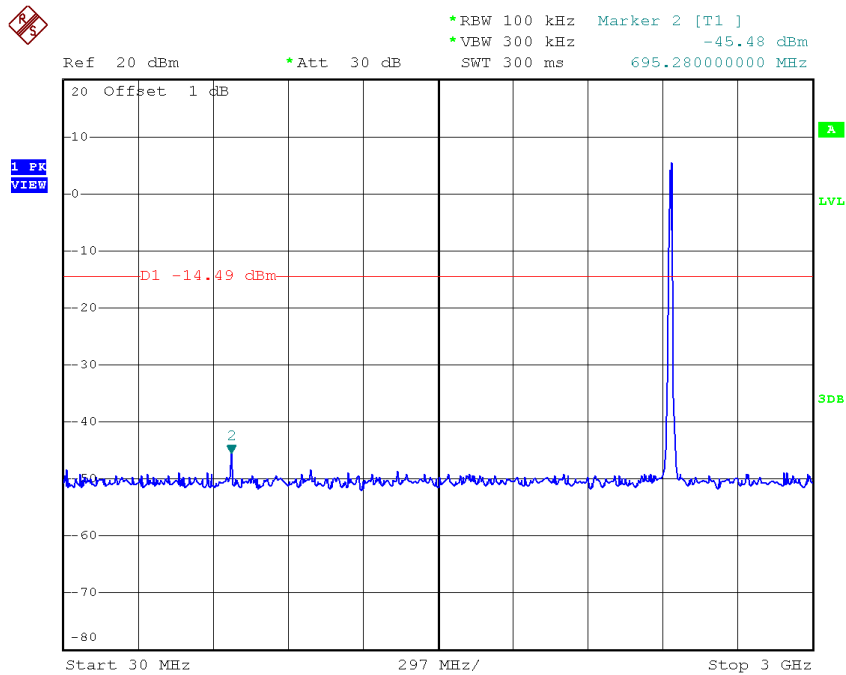


Date: 3.NOV.2016 13:37:22



Date: 3.NOV.2016 13:37:30

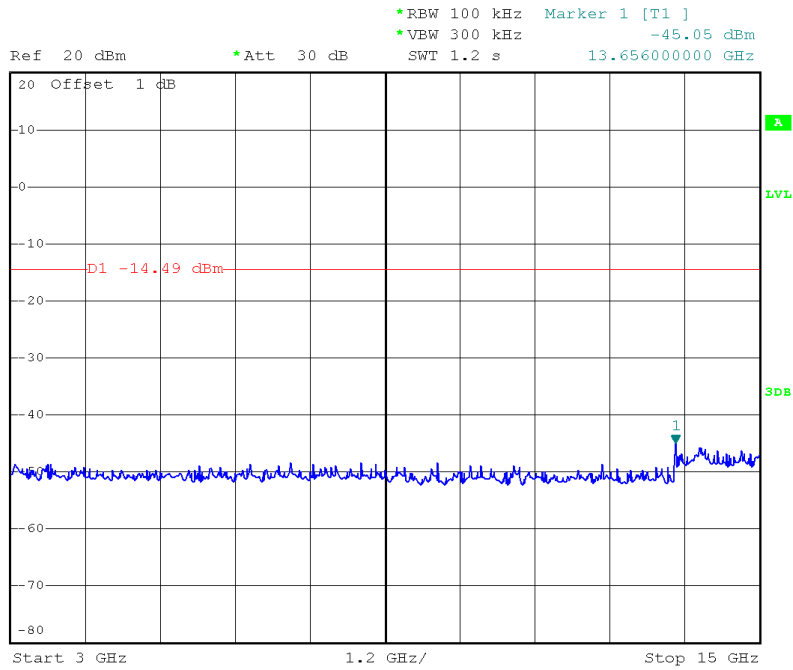
TX B mode CH06 (10 Harmonic of the frequency)



Date: 3.NOV.2016 13:39:57



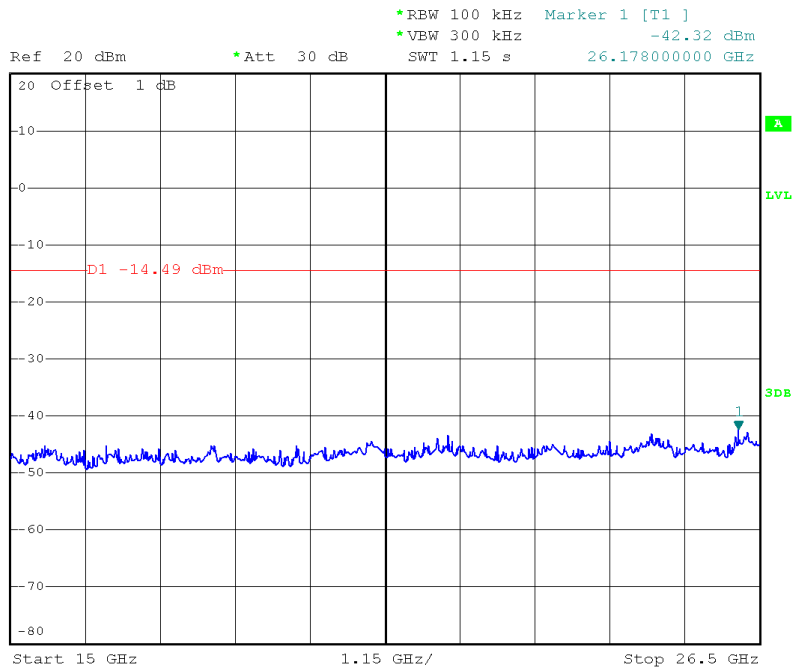
1 PK
VIEW



Date: 3.NOV.2016 13:40:05

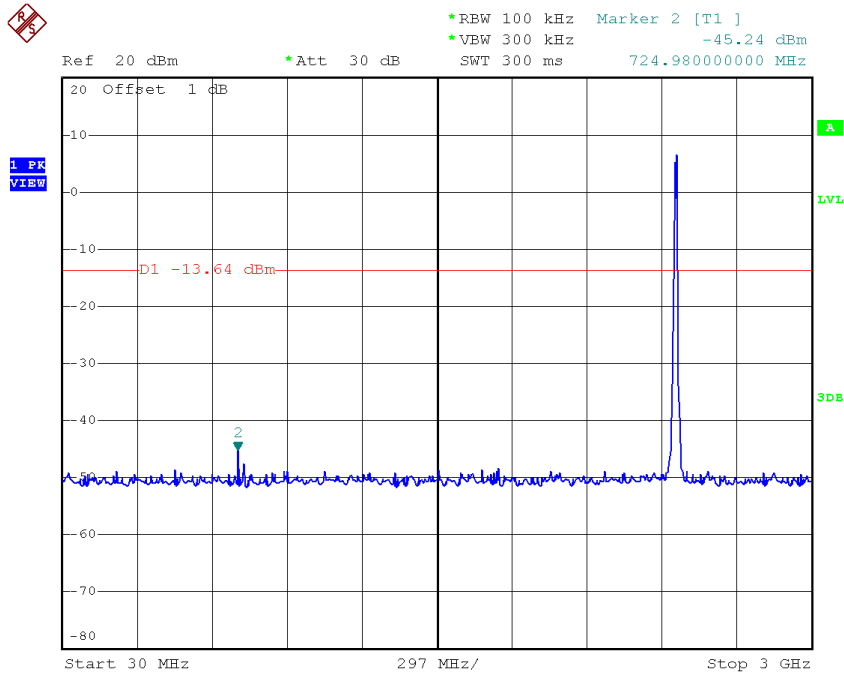


1 PK
VIEW

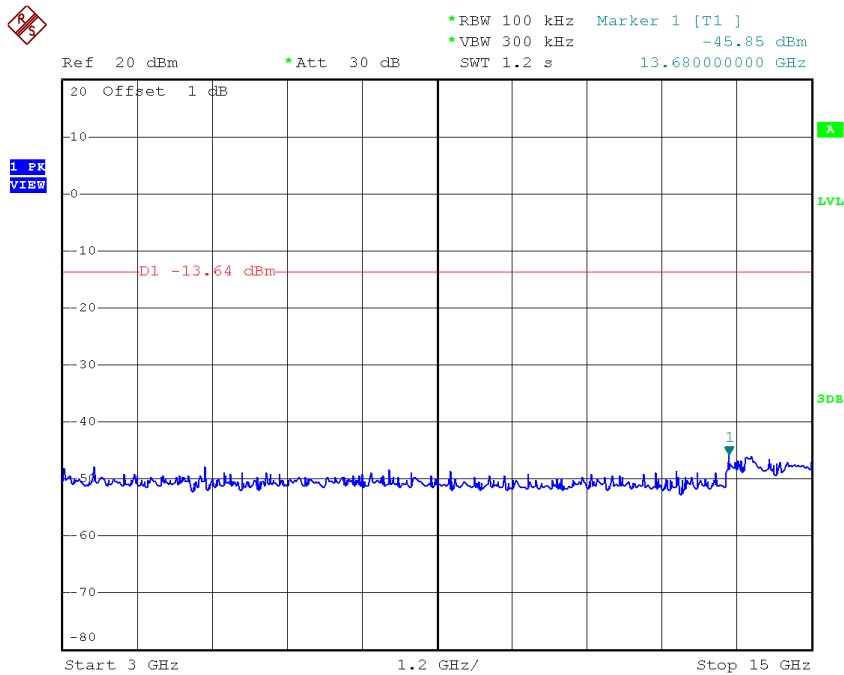


Date: 3.NOV.2016 13:40:14

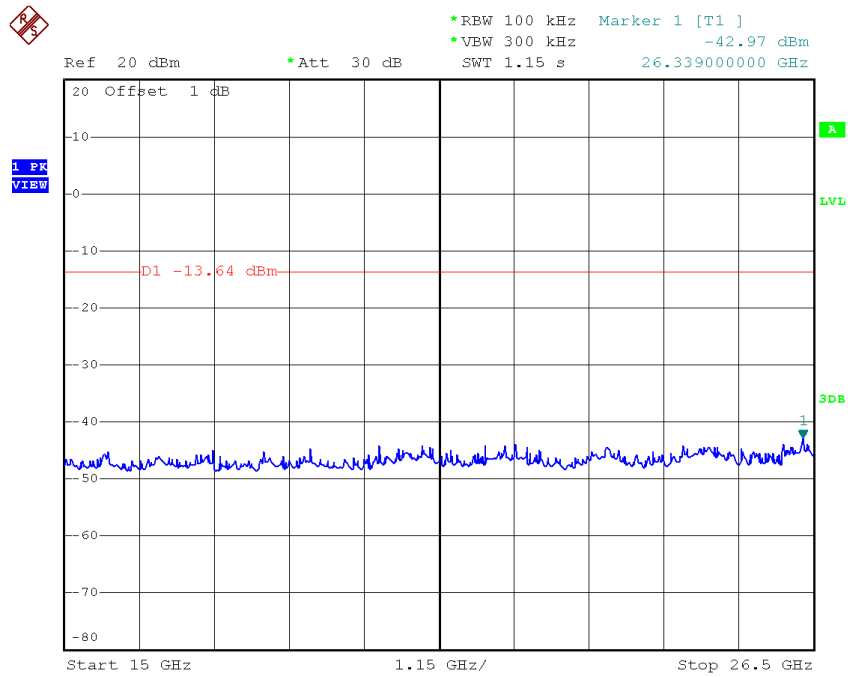
TX B mode CH11 (10 Harmonic of the frequency)



Date: 3.NOV.2016 13:42:01



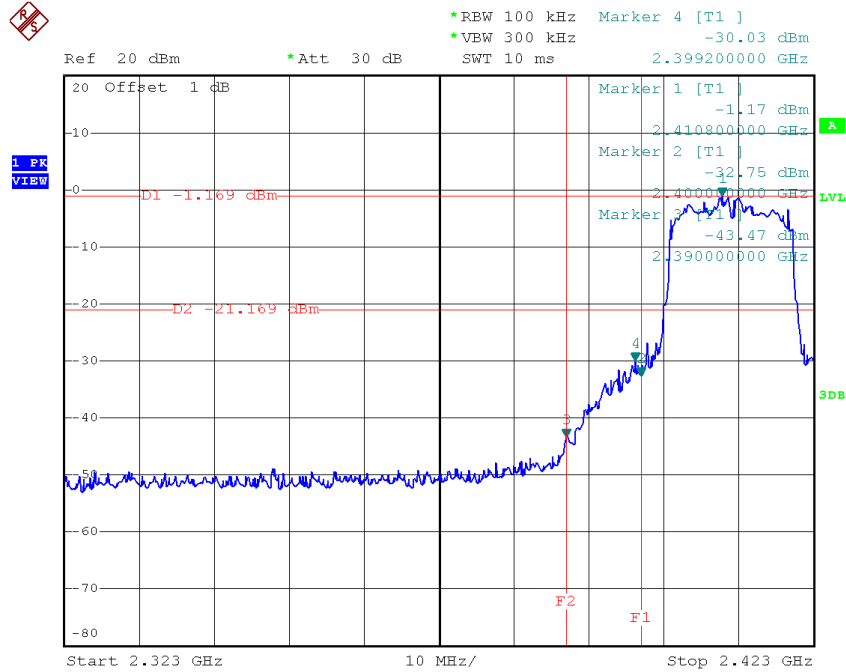
Date: 3.NOV.2016 13:42:09



Date: 3.NOV.2016 13:42:17

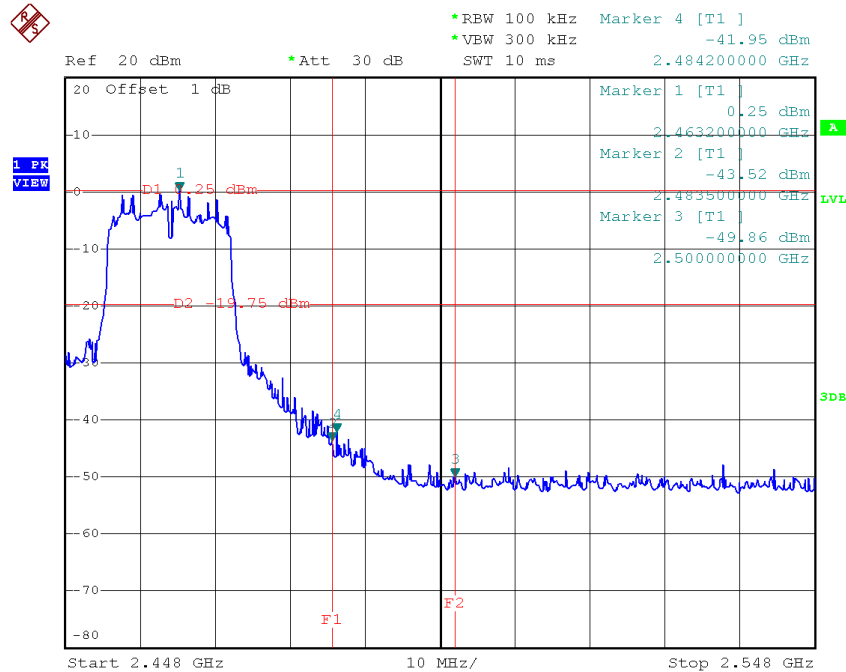
Test Mode : TX G Mode

TX G mode CH01



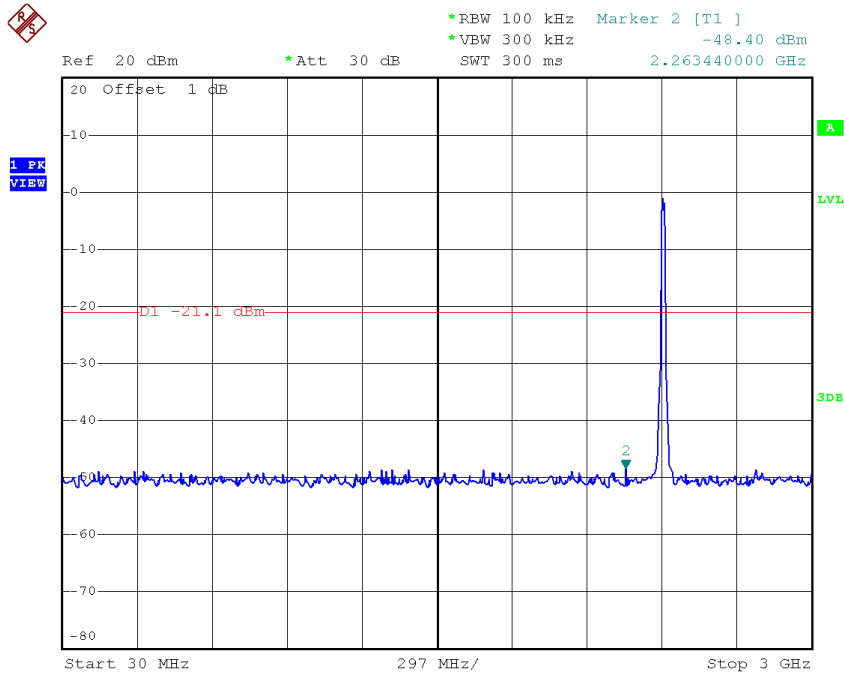
Date: 3.NOV.2016 13:44:36

TX G mode CH11

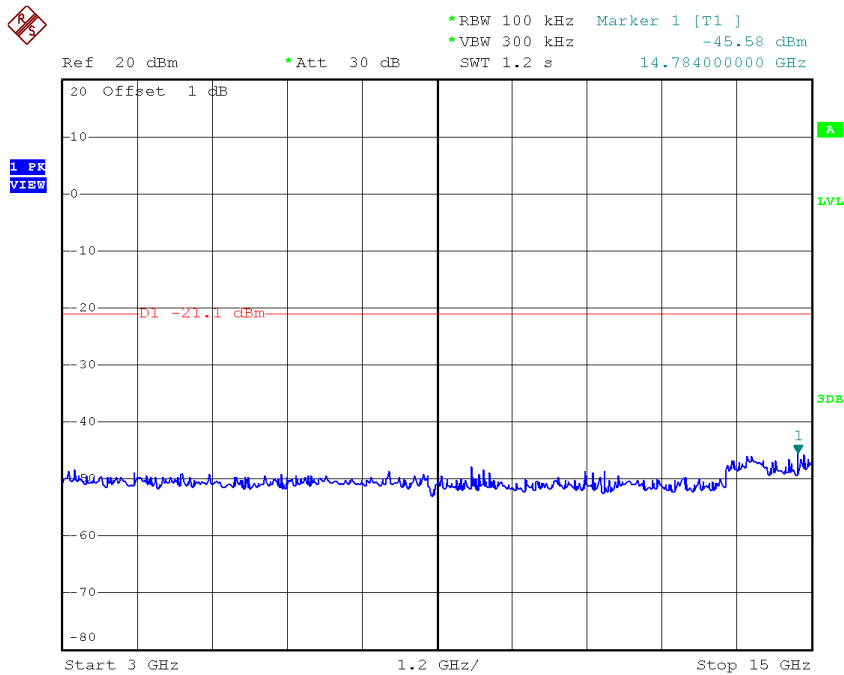


Date: 3.NOV.2016 13:49:23

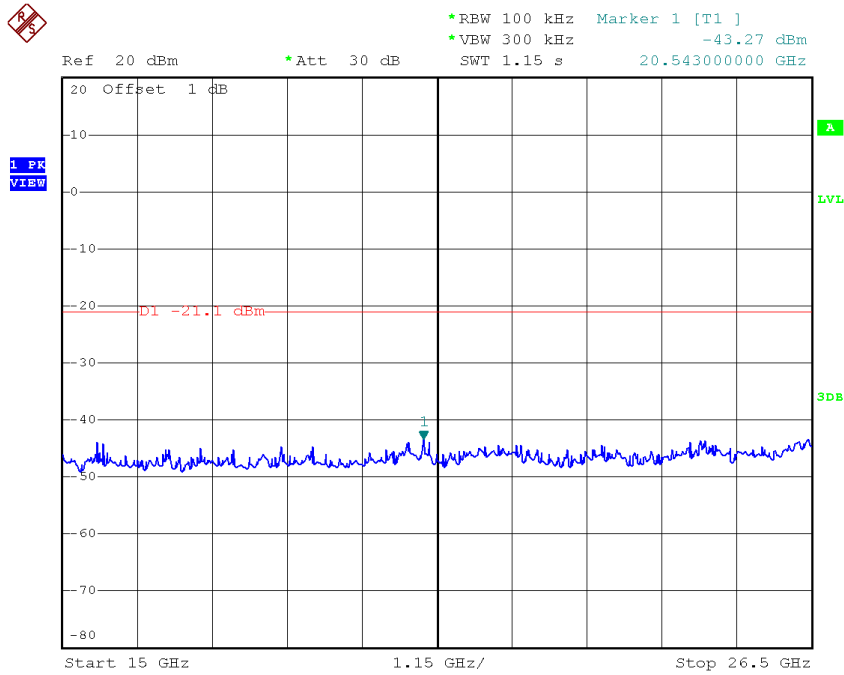
TX G mode CH01 (10 Harmonic of the frequency)



Date: 3.NOV.2016 13:44:12

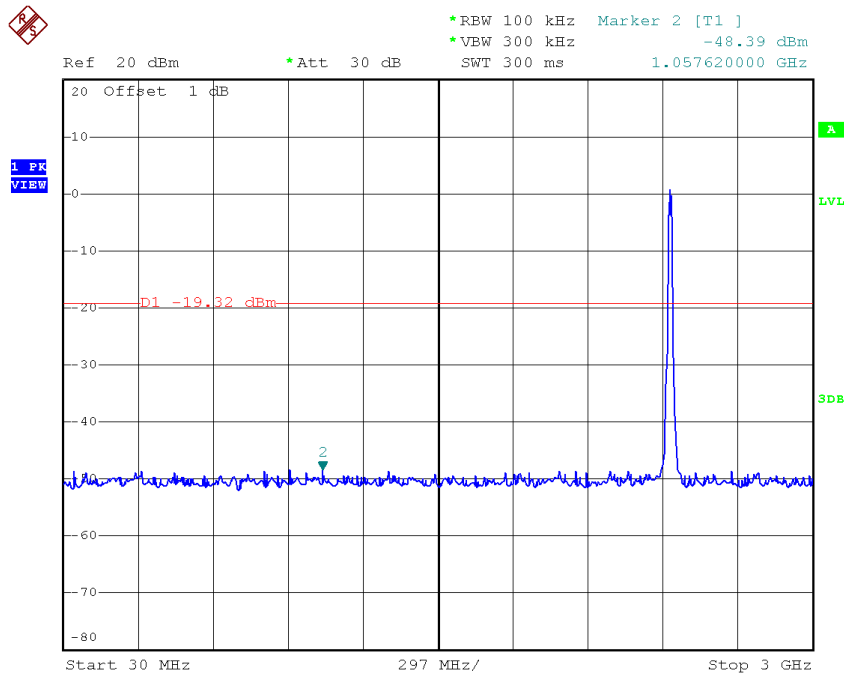


Date: 3.NOV.2016 13:44:20

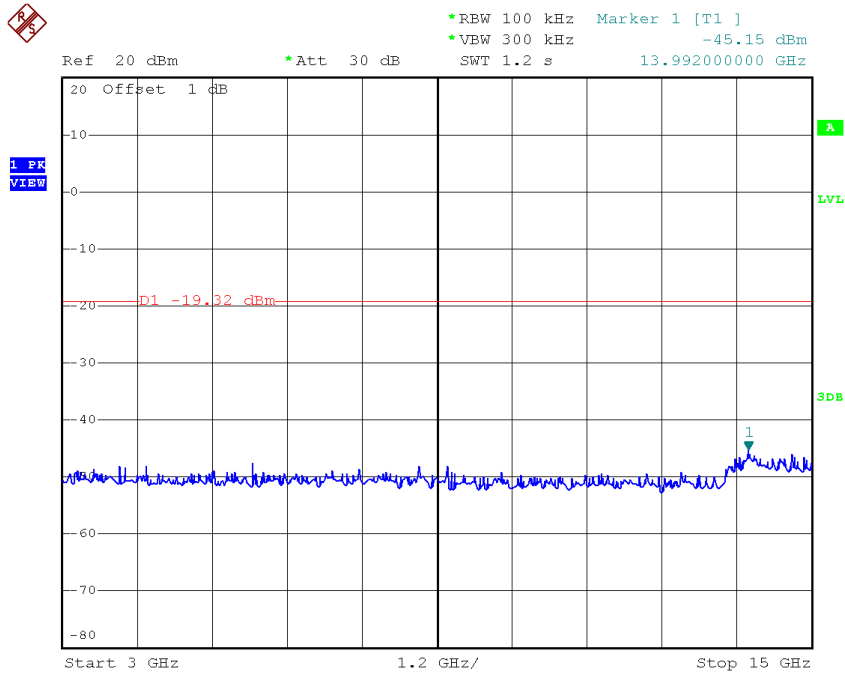


Date: 3.NOV.2016 13:44:28

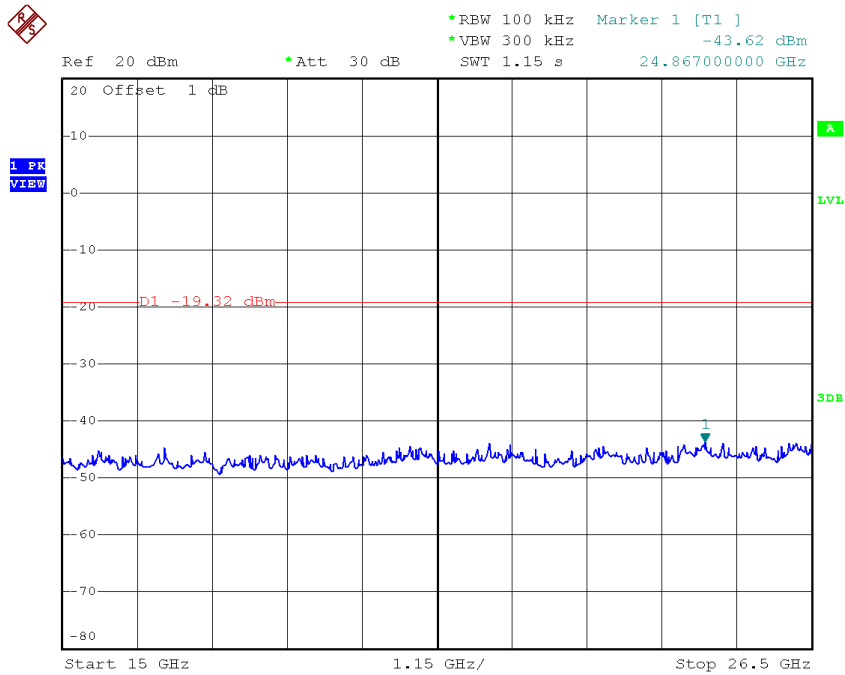
TX G mode CH06 (10 Harmonic of the frequency)



Date: 3.NOV.2016 13:46:25

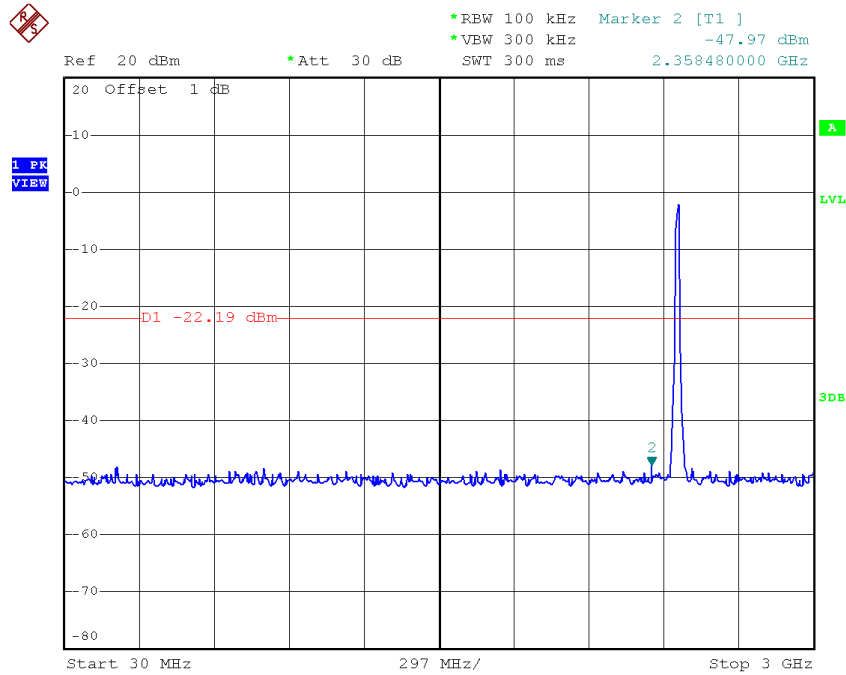


Date: 3.NOV.2016 13:46:33

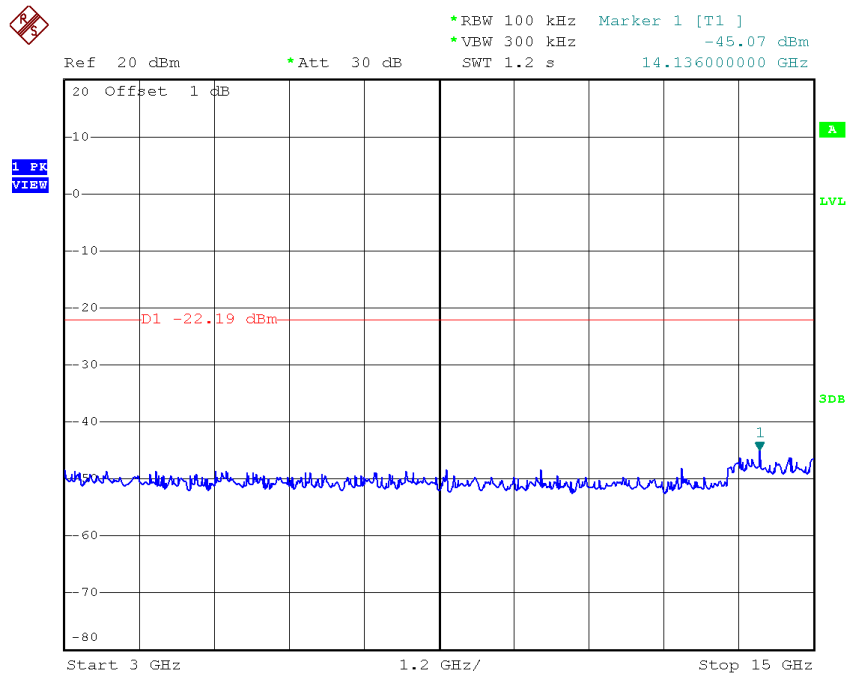


Date: 3.NOV.2016 13:46:41

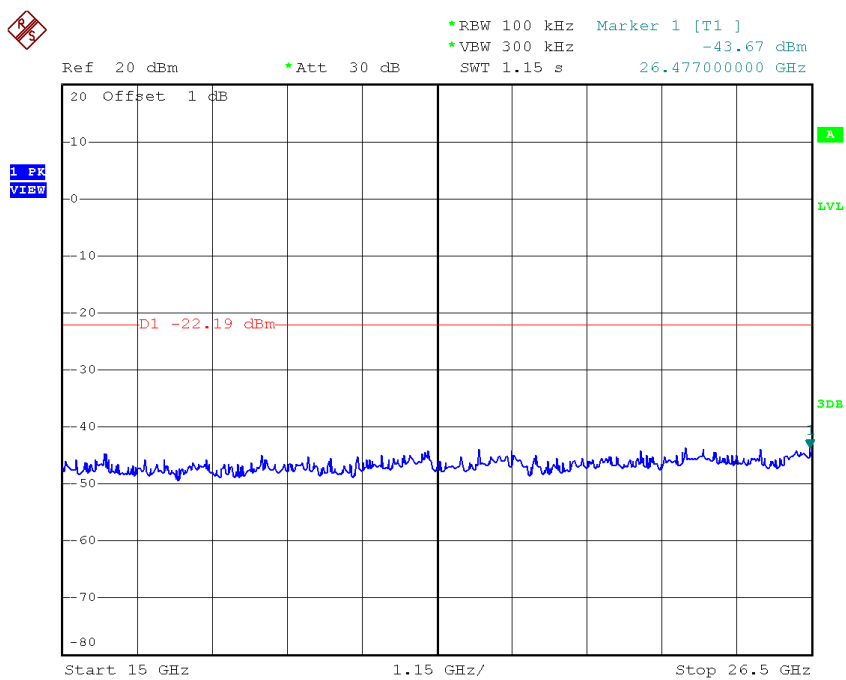
TX G mode CH11 (10 Harmonic of the frequency)



Date: 3.NOV.2016 13:48:59



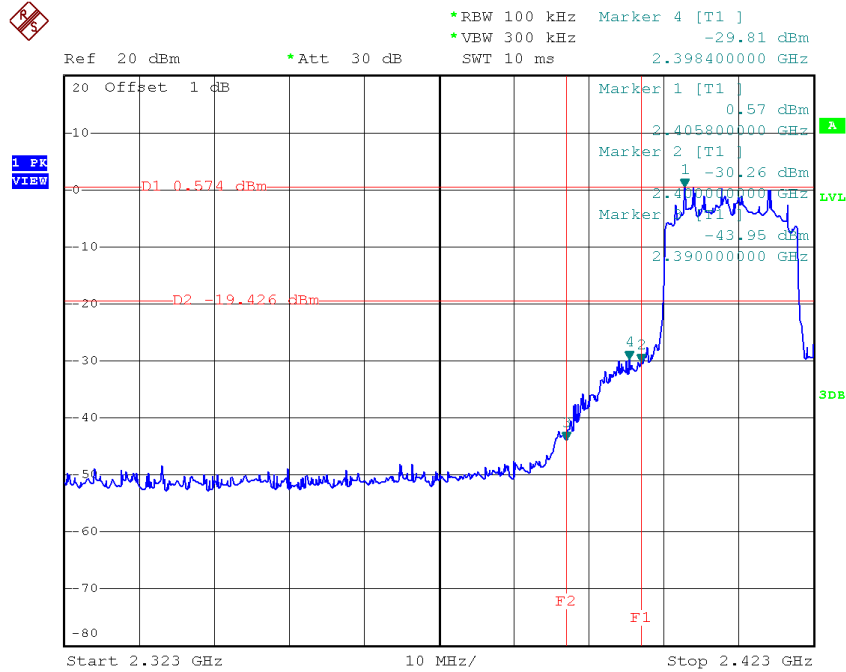
Date: 3.NOV.2016 13:49:07



Date: 3.NOV.2016 13:49:15

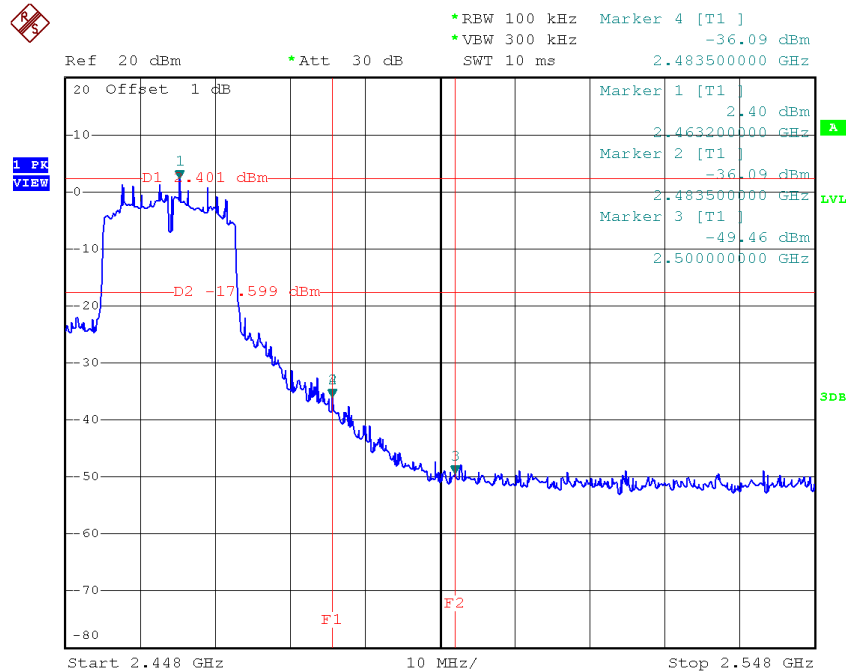
Test Mode : TX N-20M Mode

TX HT20 mode CH01



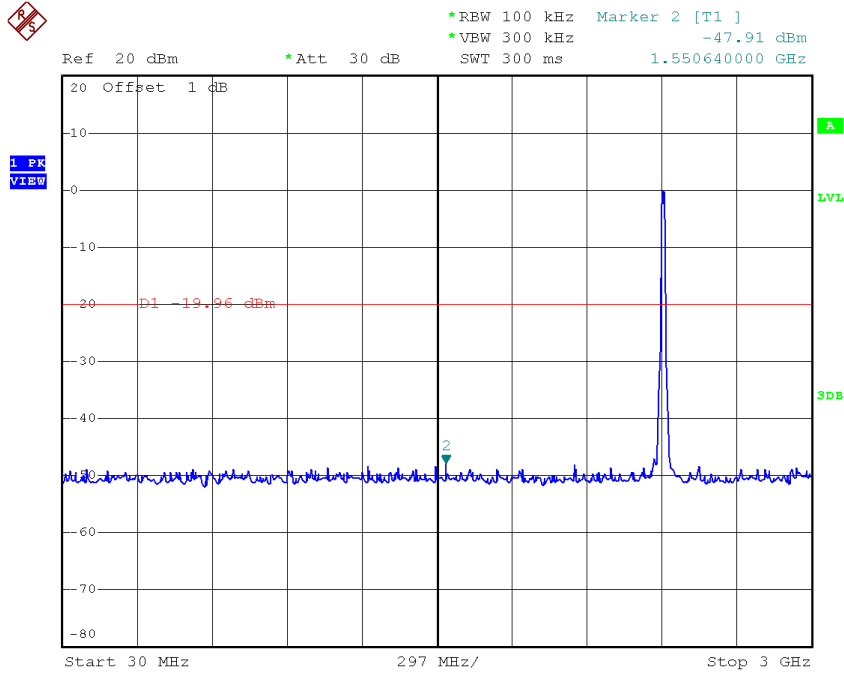
Date: 3.NOV.2016 13:51:10

TX HT20 mode CH11

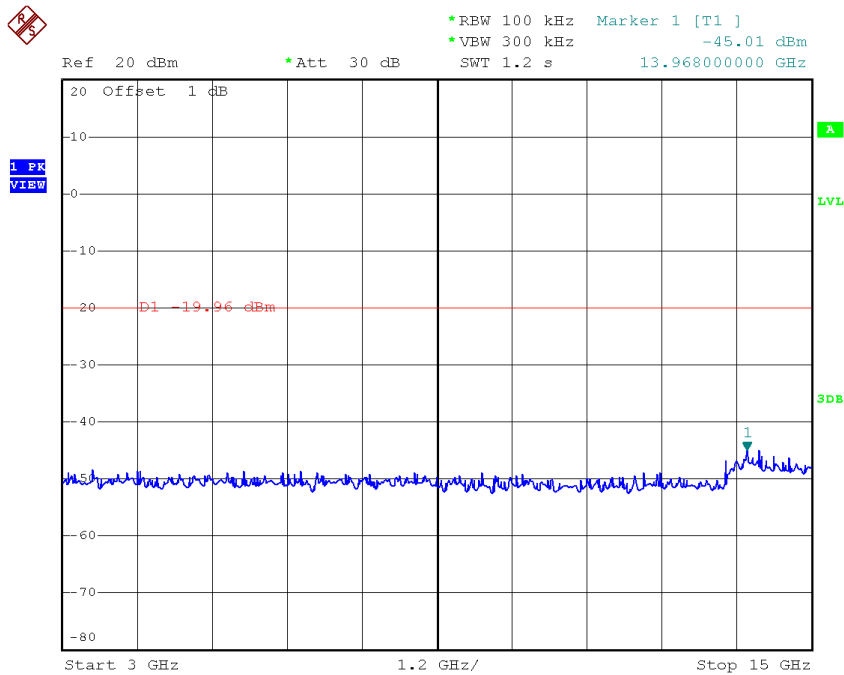


Date: 3.NOV.2016 13:56:42

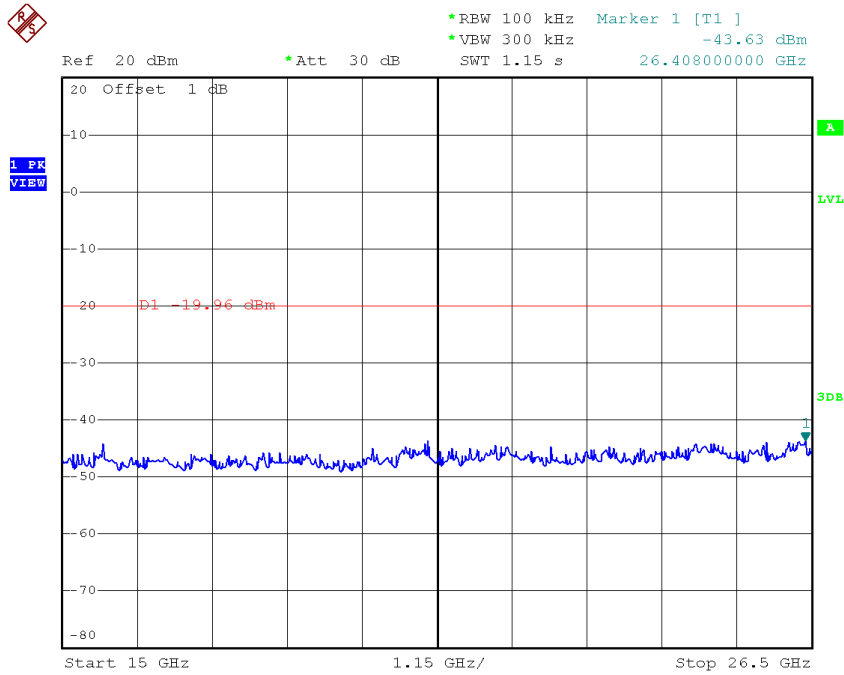
TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 3.NOV.2016 13:50:46

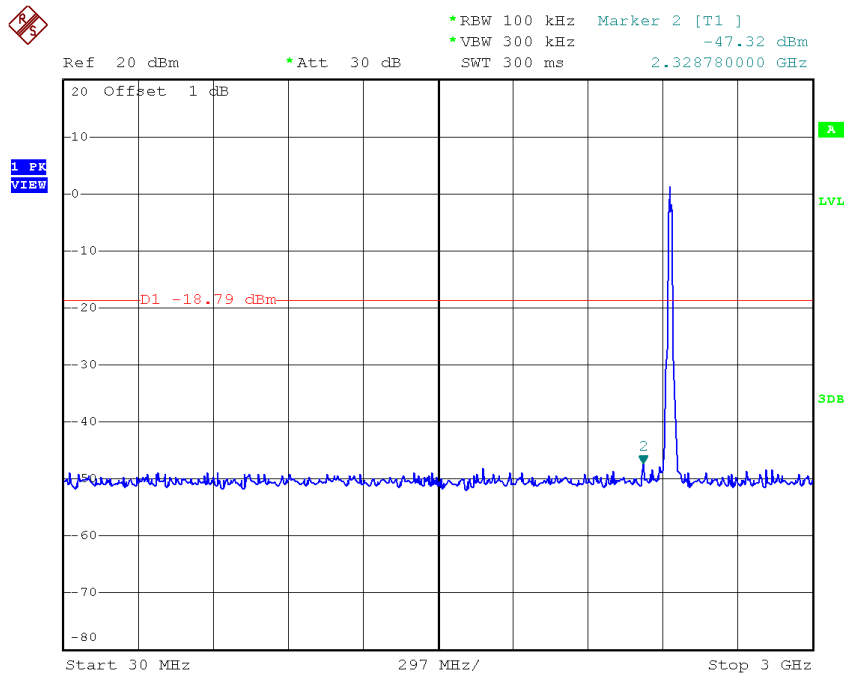


Date: 3.NOV.2016 13:50:54



Date: 3.NOV.2016 13:51:02

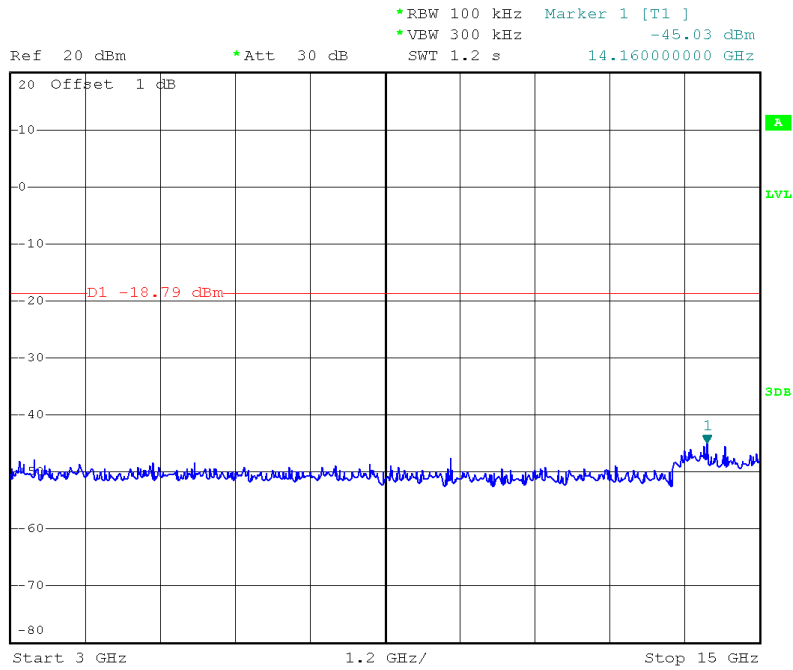
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 3.NOV.2016 13:54:42



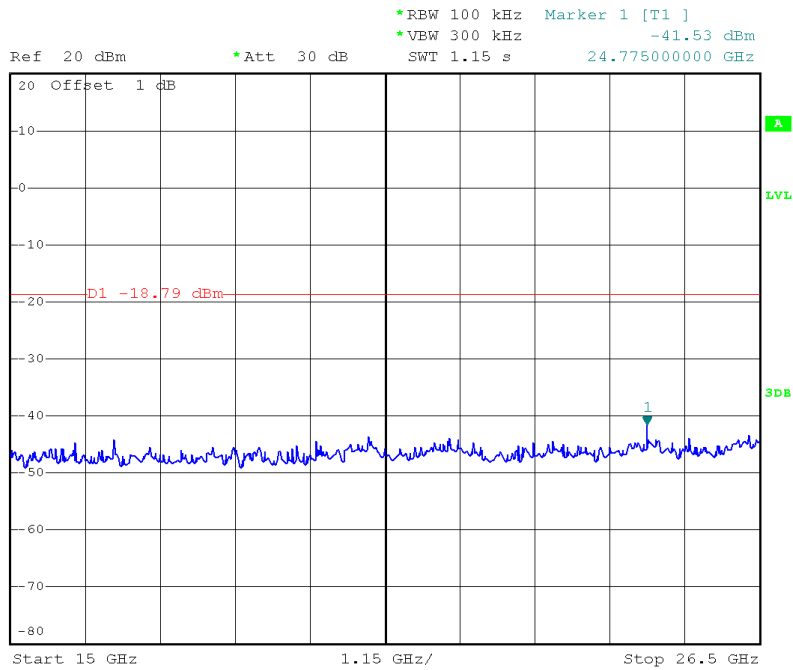
1 PK
VIEW



Date: 3.NOV.2016 13:54:50

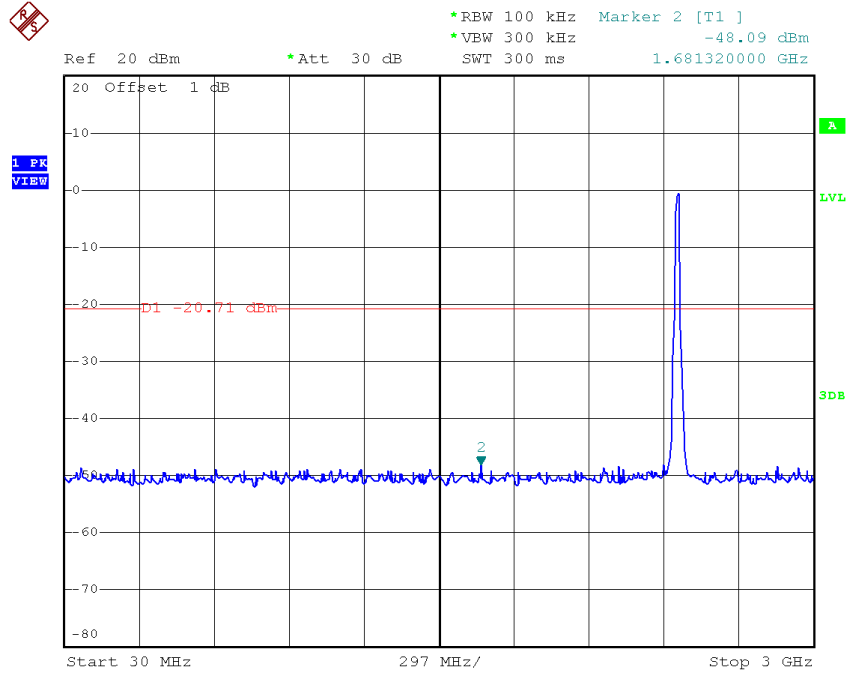


1 PK
VIEW

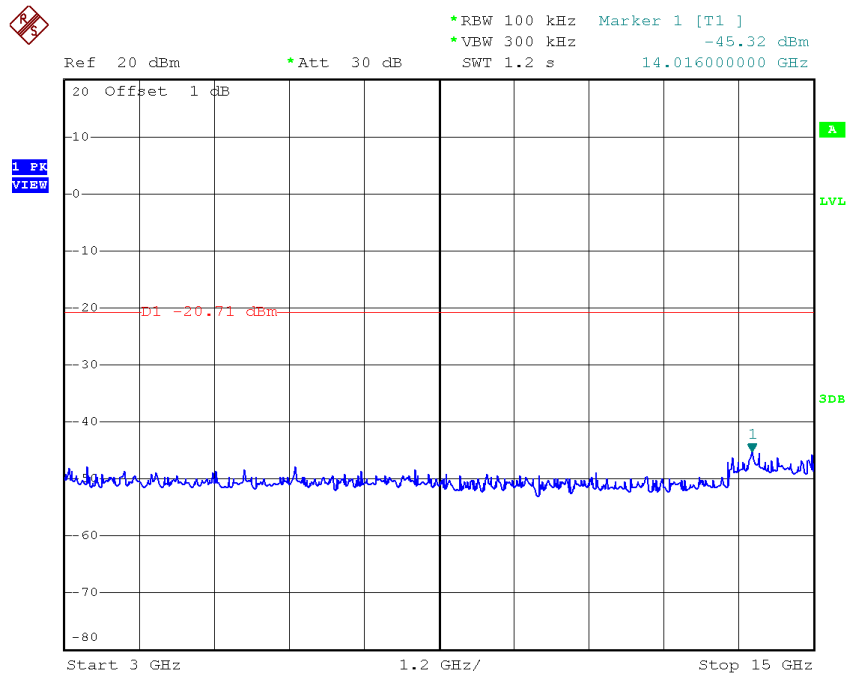


Date: 3.NOV.2016 13:54:58

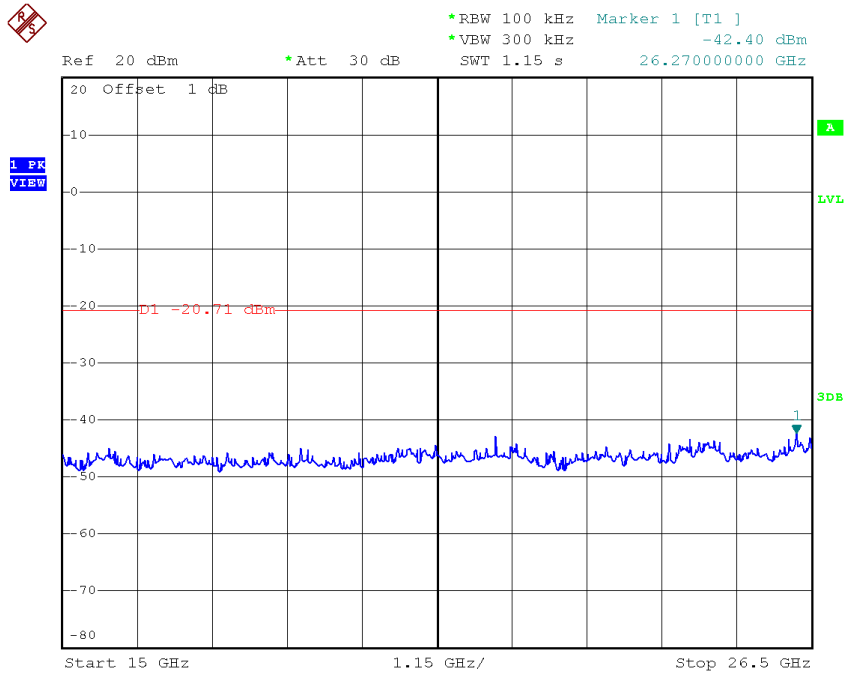
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 3.NOV.2016 13:56:18



Date: 3.NOV.2016 13:56:26

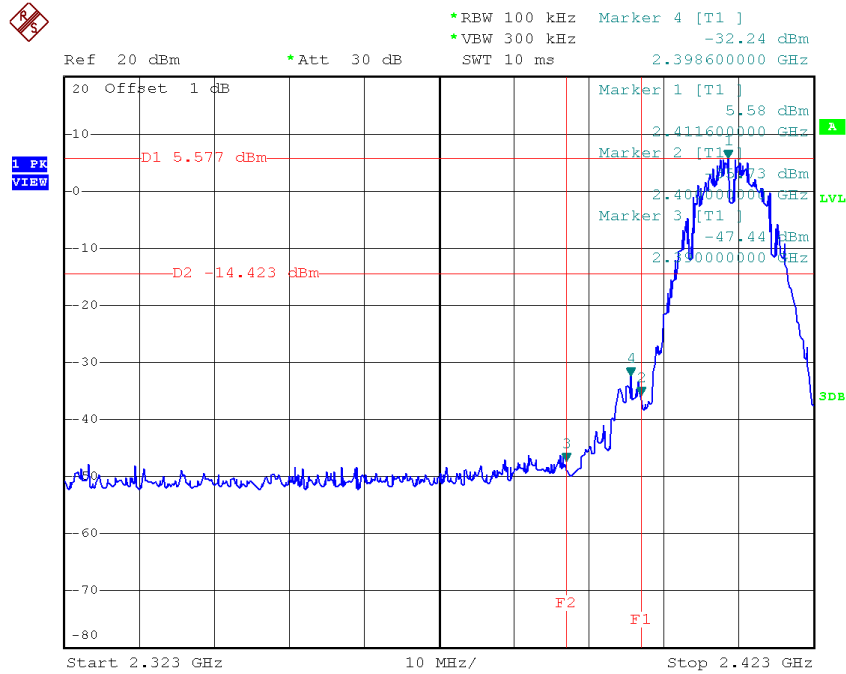


Date: 3.NOV.2016 13:56:34

For Dipole antenna

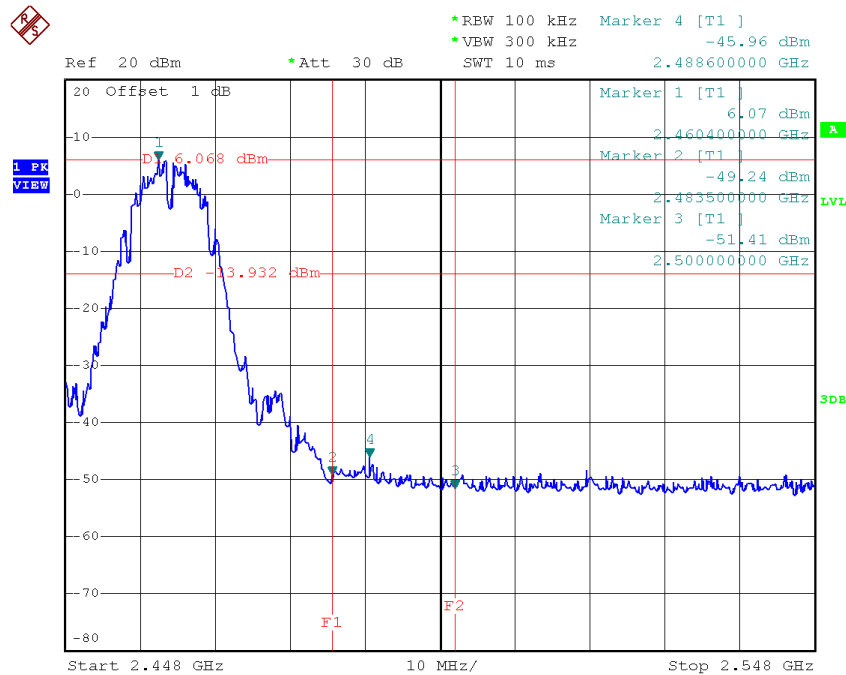
Test Mode : TX B Mode

TX B mode CH01



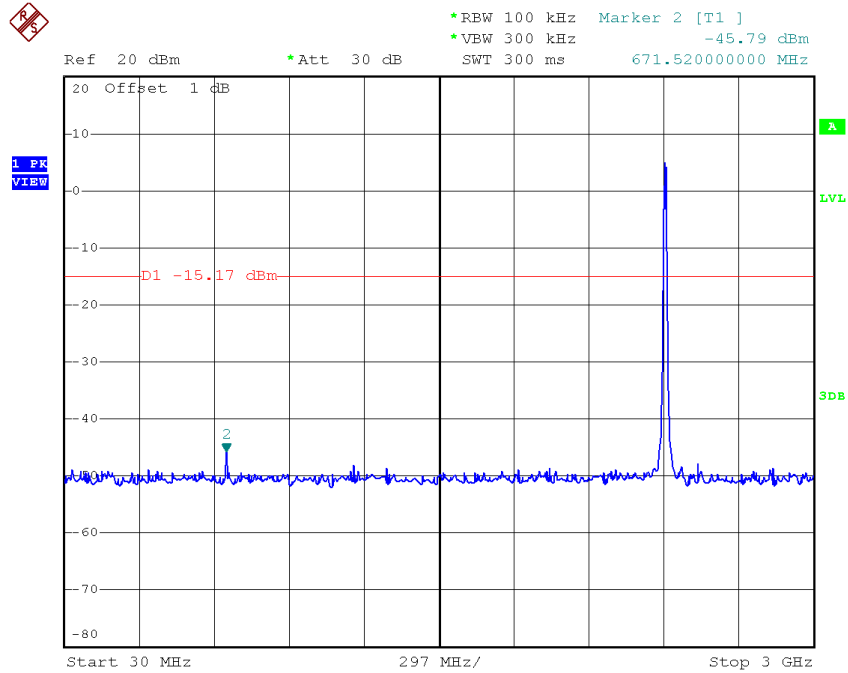
Date: 3.NOV.2016 10:28:46

TX B mode CH11

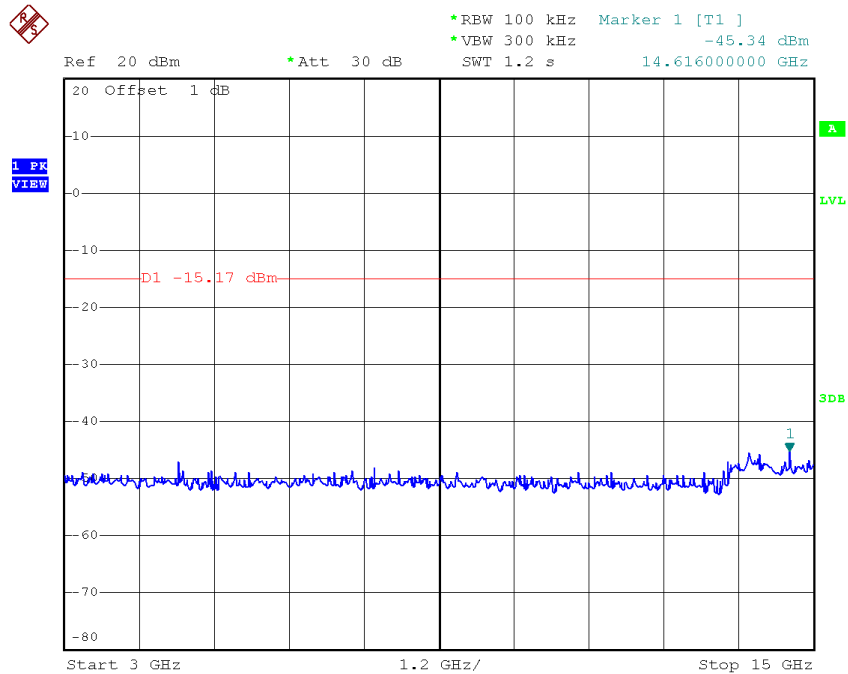


Date: 3.NOV.2016 10:32:21

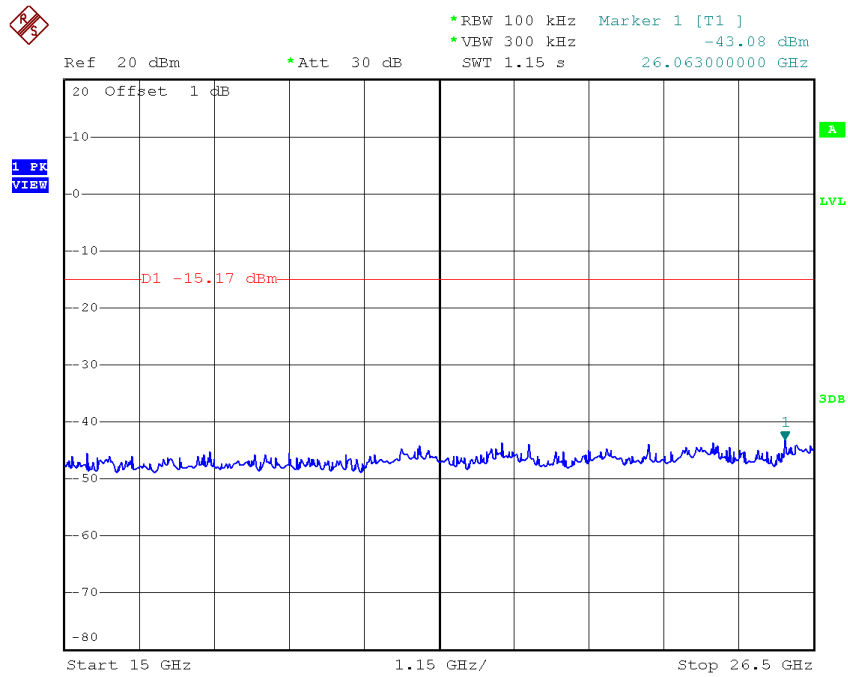
TX B mode CH01 (10 Harmonic of the frequency)



Date: 3.NOV.2016 10:28:22

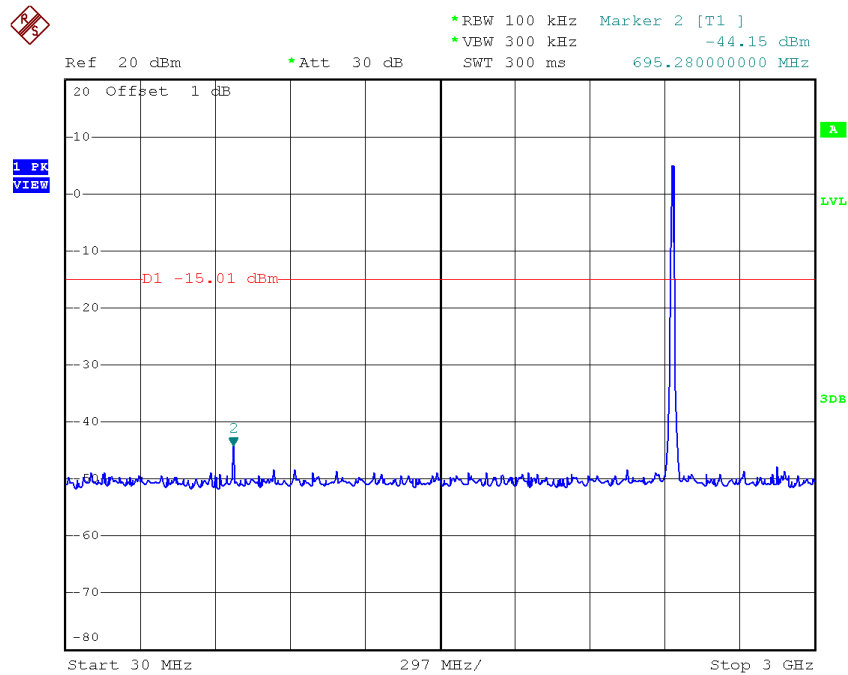


Date: 3.NOV.2016 10:28:30

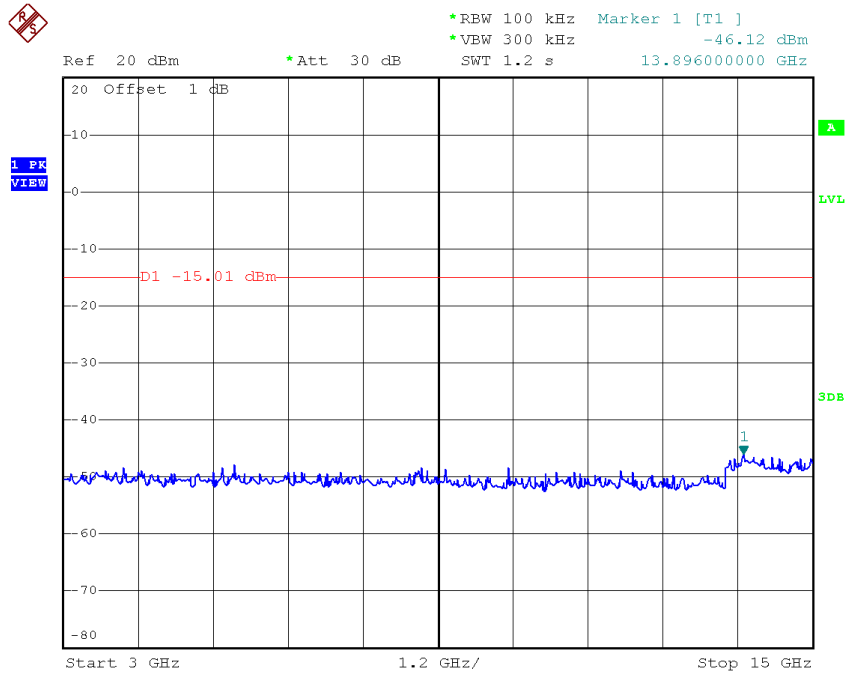


Date: 3.NOV.2016 10:28:38

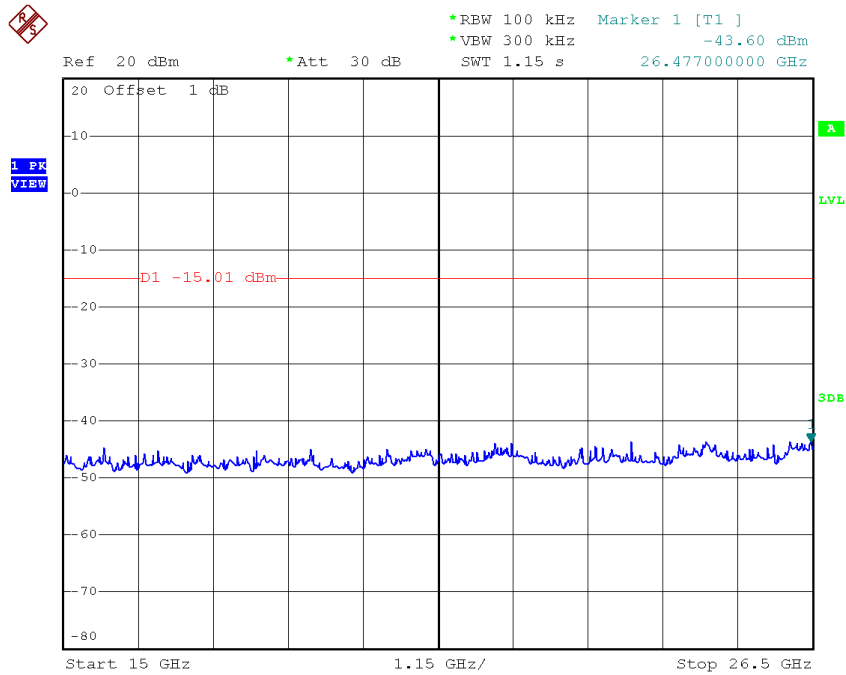
TX B mode CH06 (10 Harmonic of the frequency)



Date: 3.NOV.2016 10:30:22

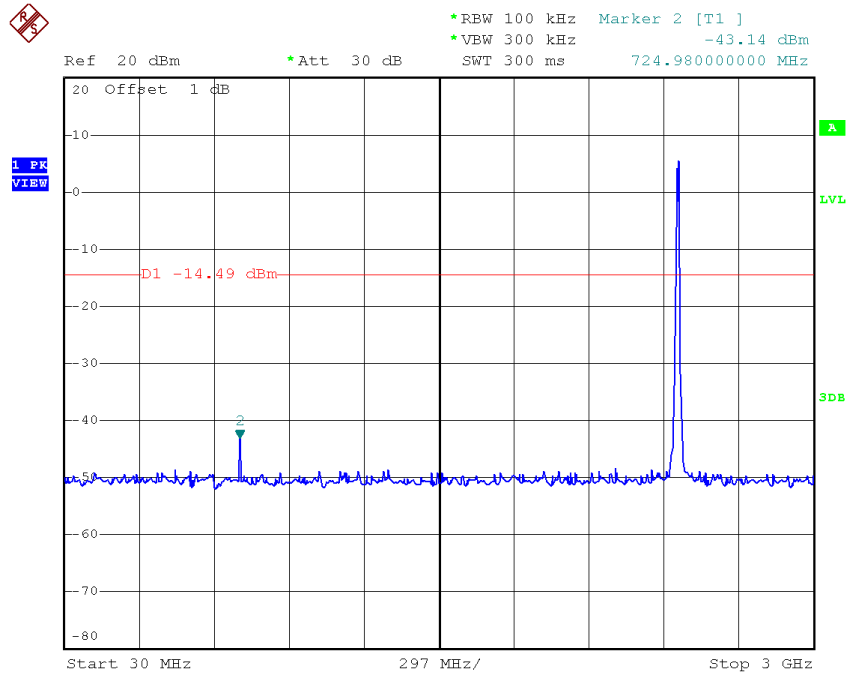


Date: 3.NOV.2016 10:30:30

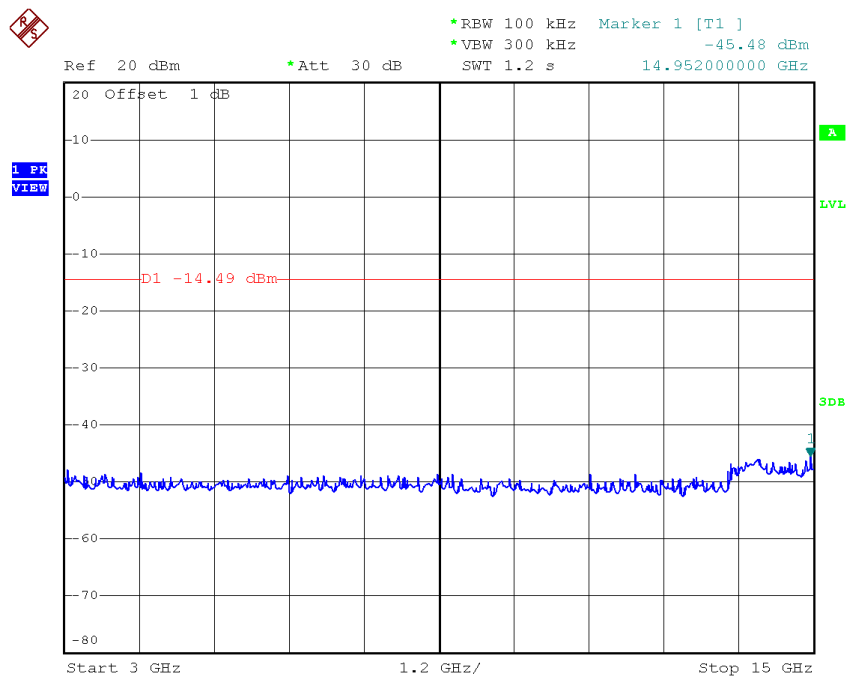


Date: 3.NOV.2016 10:30:38

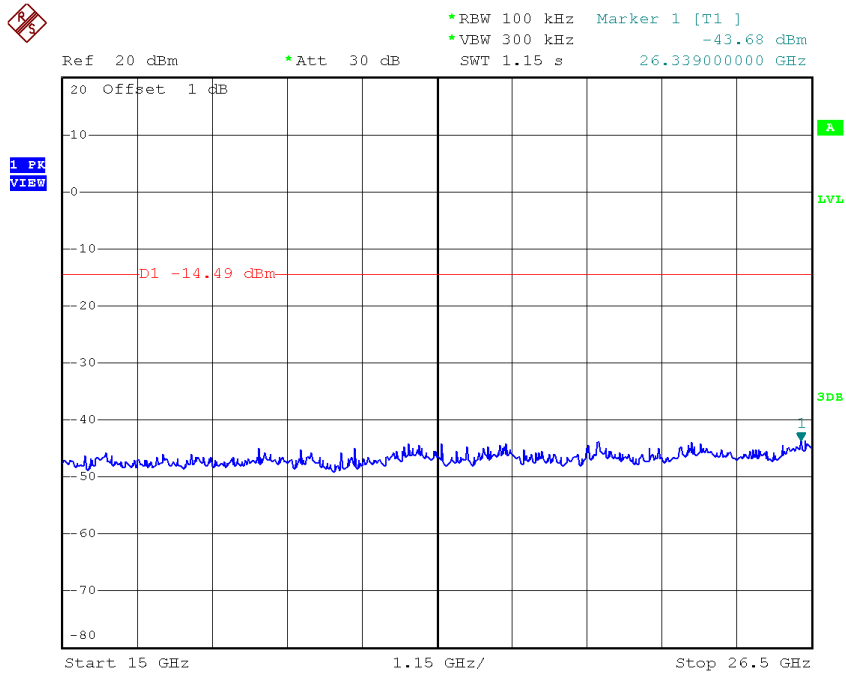
TX B mode CH11 (10 Harmonic of the frequency)



Date: 3.NOV.2016 10:31:57



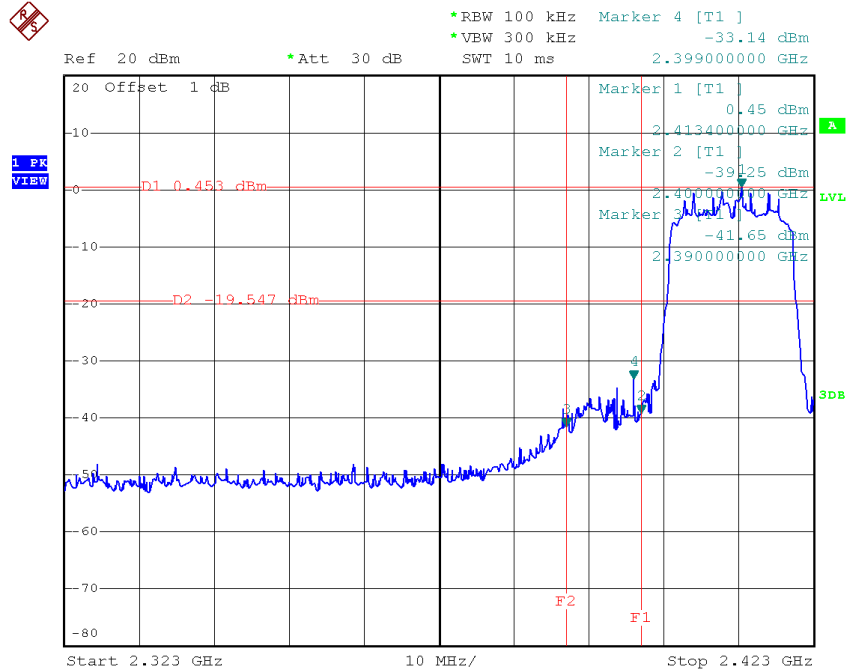
Date: 3.NOV.2016 10:32:06



Date: 3.NOV.2016 10:32:14

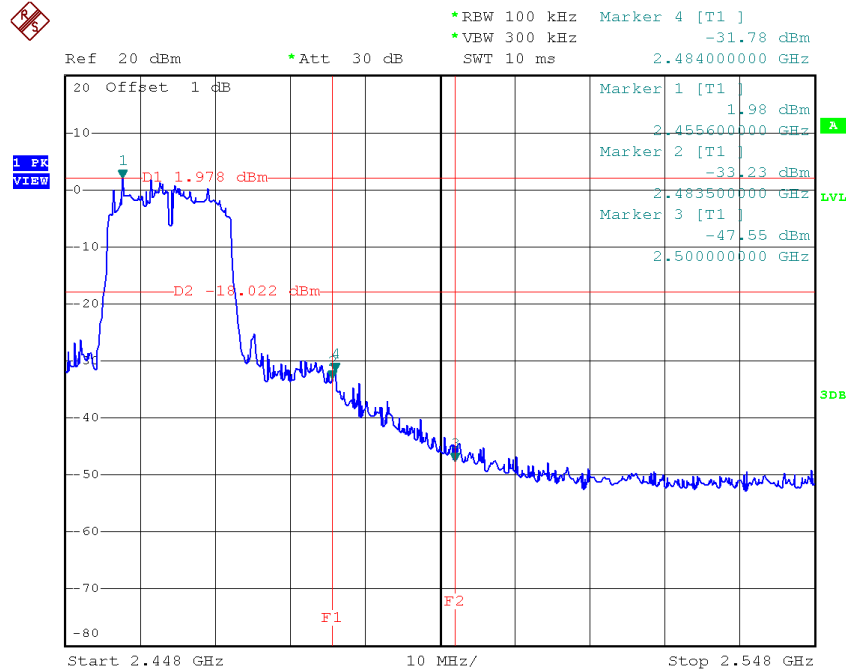
Test Mode : TX G Mode

TX G mode CH01



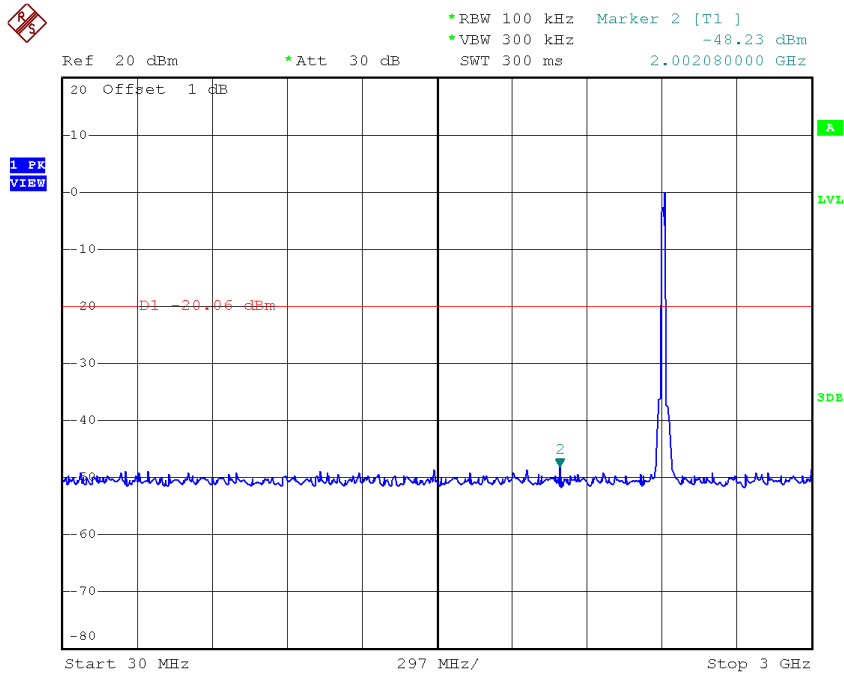
Date: 3.NOV.2016 10:37:46

TX G mode CH11

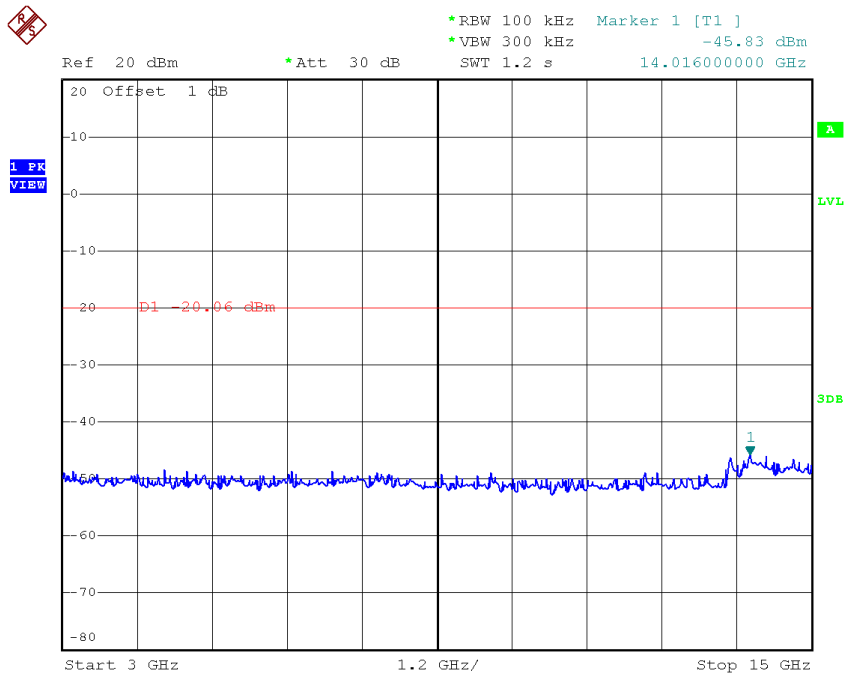


Date: 3.NOV.2016 10:47:39

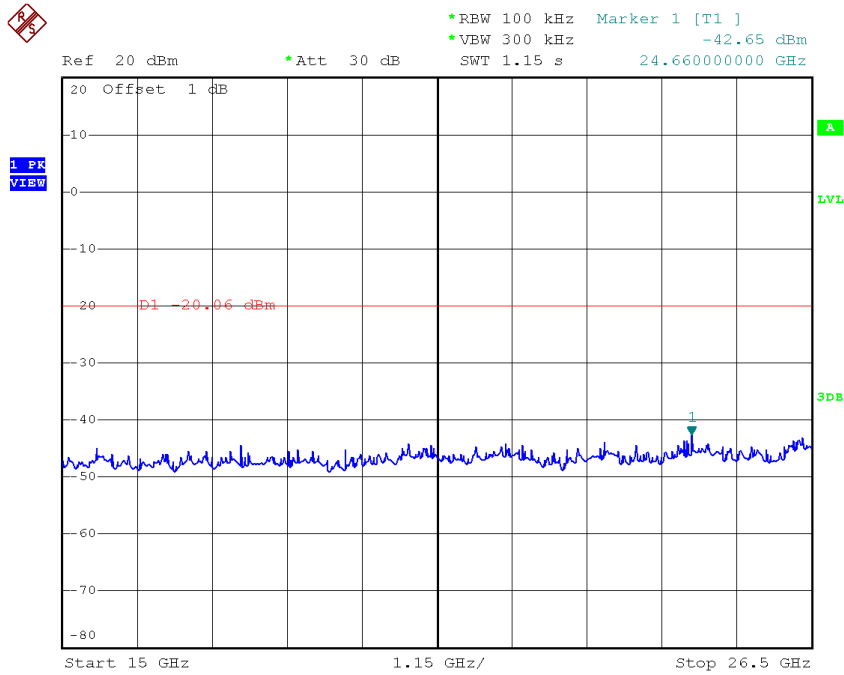
TX G mode CH01 (10 Harmonic of the frequency)



Date: 3.NOV.2016 10:37:22

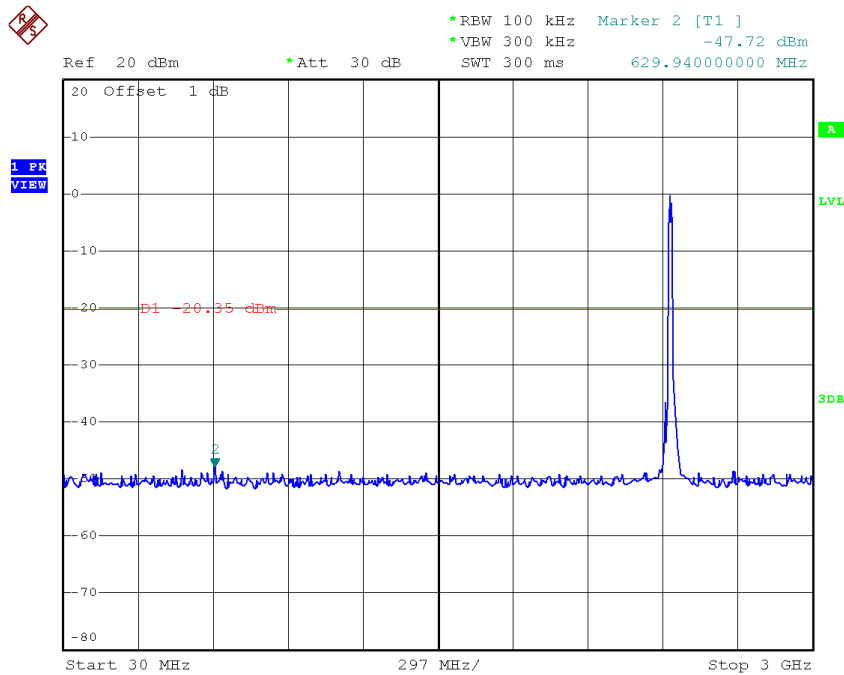


Date: 3.NOV.2016 10:37:30

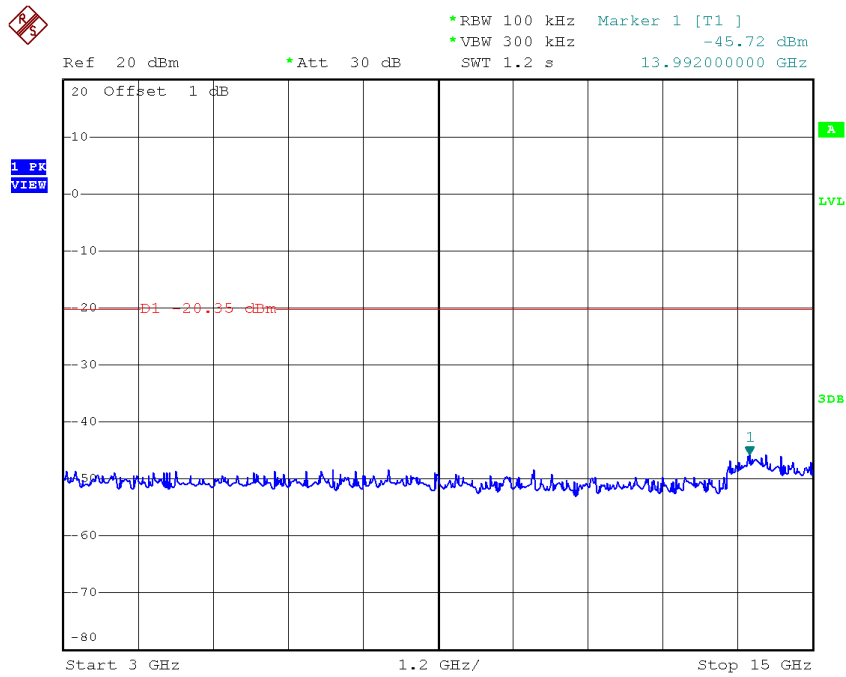


Date: 3.NOV.2016 10:37:38

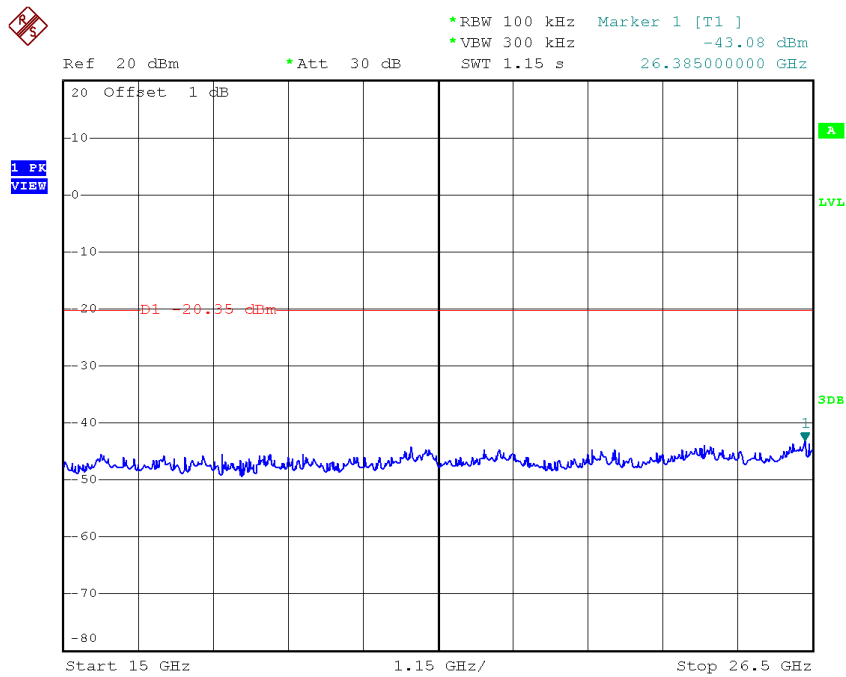
TX G mode CH06 (10 Harmonic of the frequency)



Date: 3.NOV.2016 10:45:34

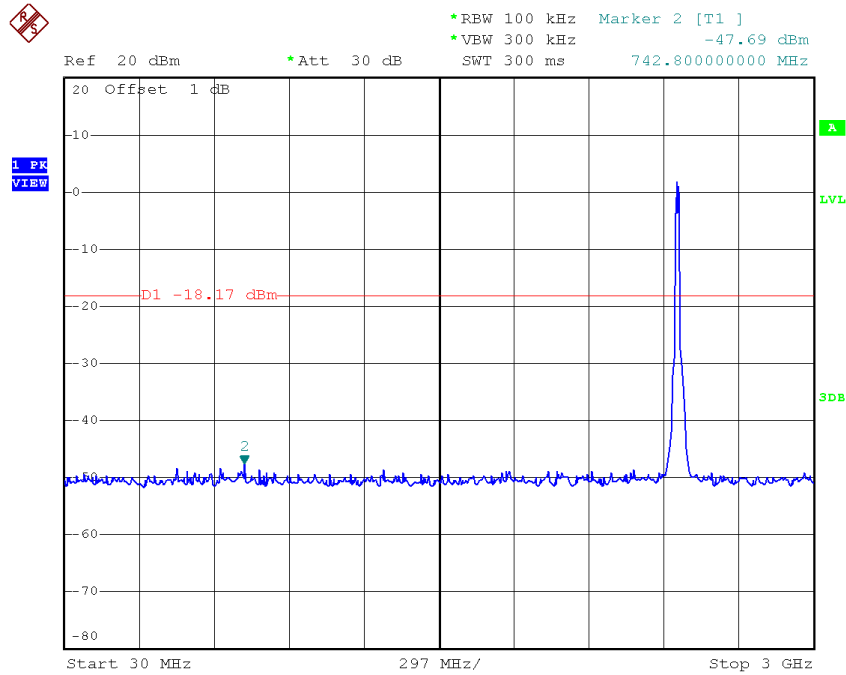


Date: 3.NOV.2016 10:45:42

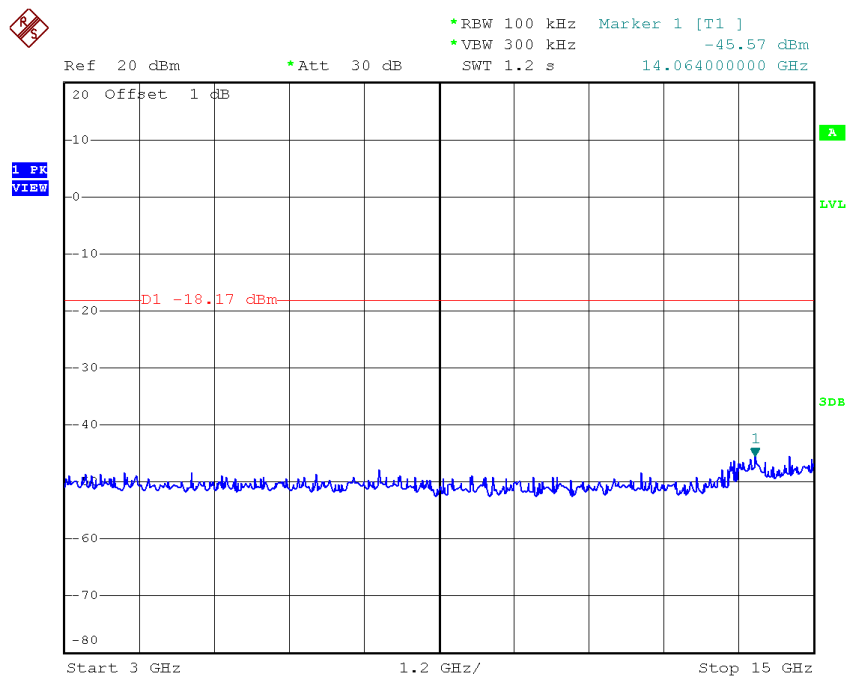


Date: 3.NOV.2016 10:45:50

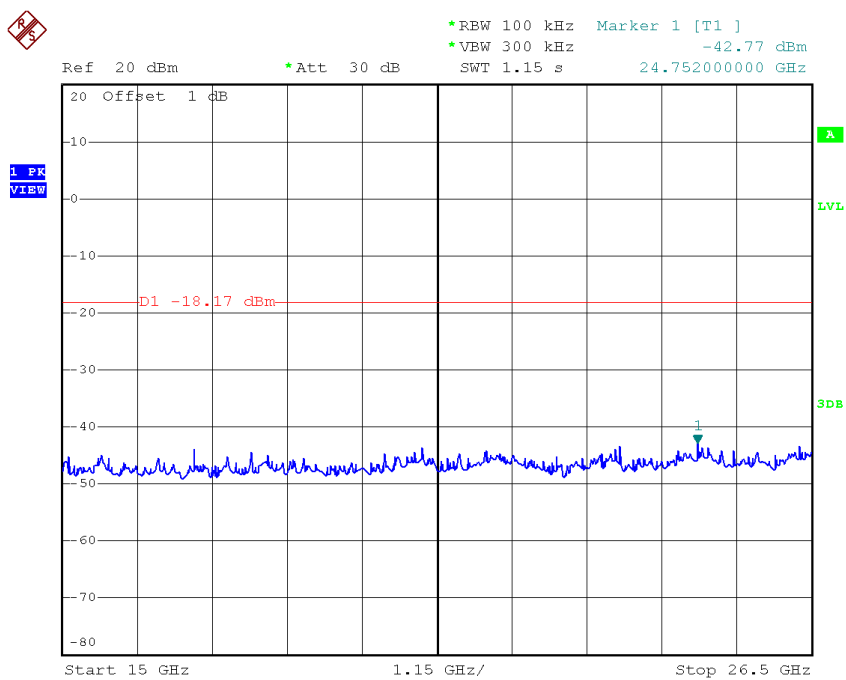
TX G mode CH11 (10 Harmonic of the frequency)



Date: 3.NOV.2016 10:47:15



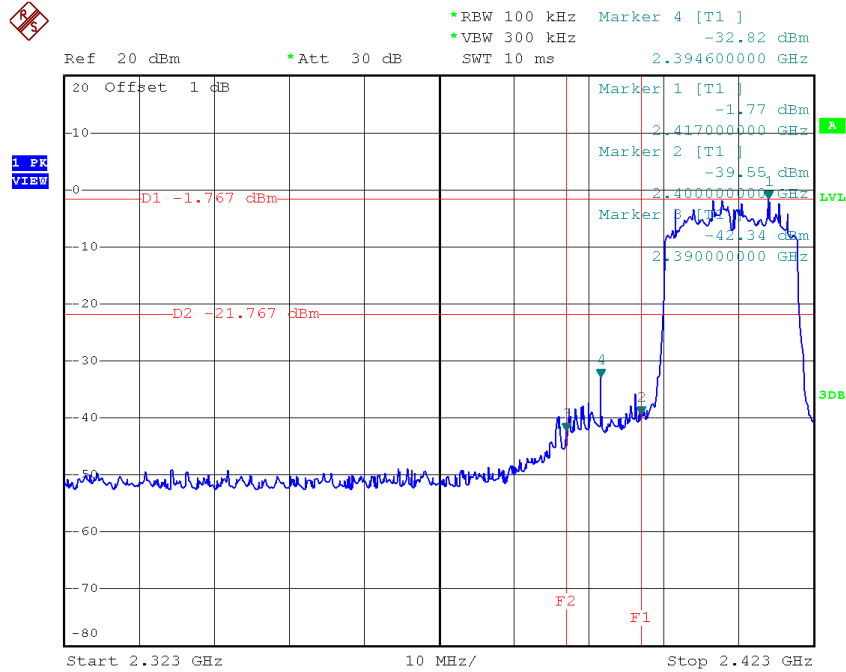
Date: 3.NOV.2016 10:47:23



Date: 3.NOV.2016 10:47:31

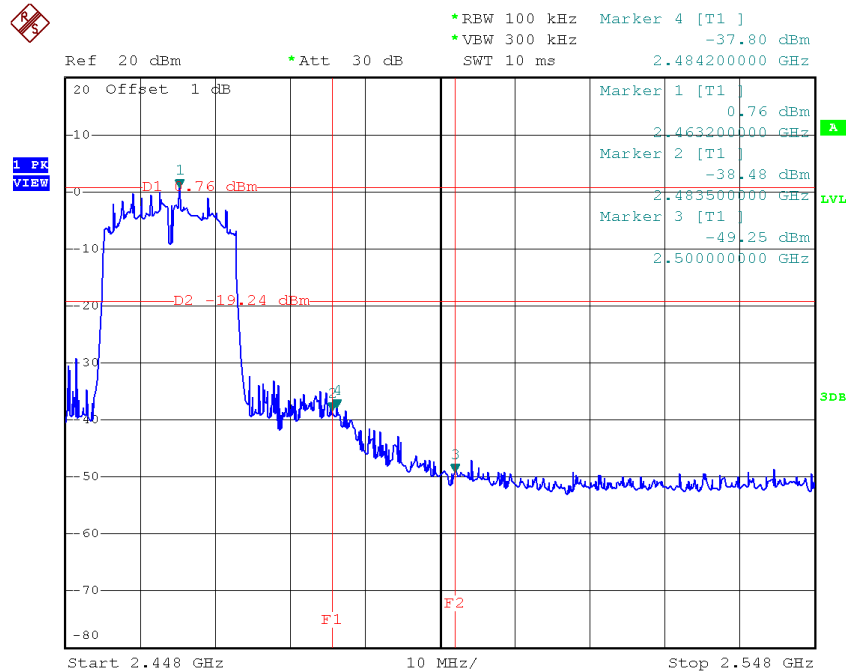
Test Mode : TX N-20M Mode

TX HT20 mode CH01



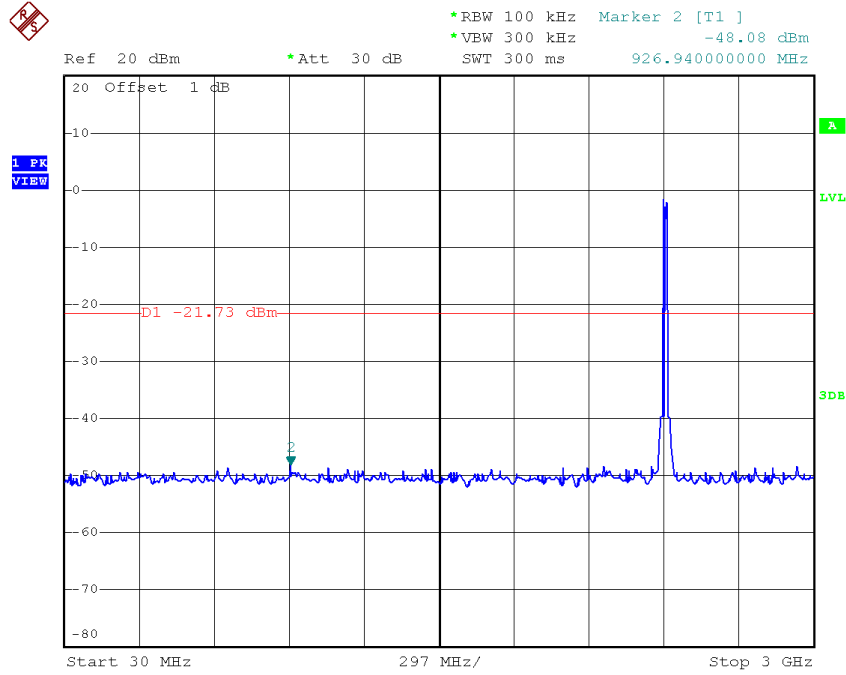
Date: 3.NOV.2016 10:49:37

TX HT20 mode CH11

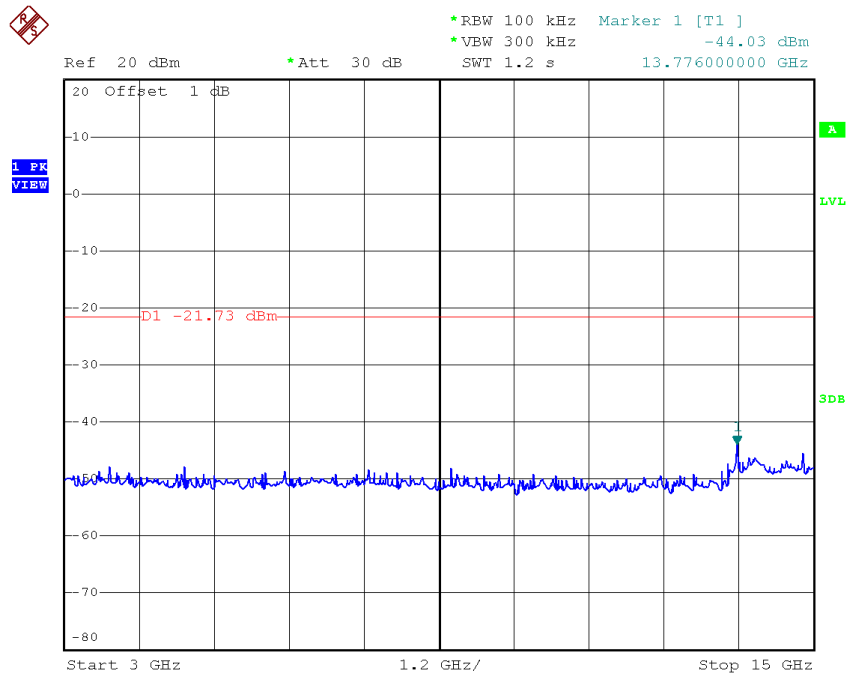


Date: 3.NOV.2016 10:54:09

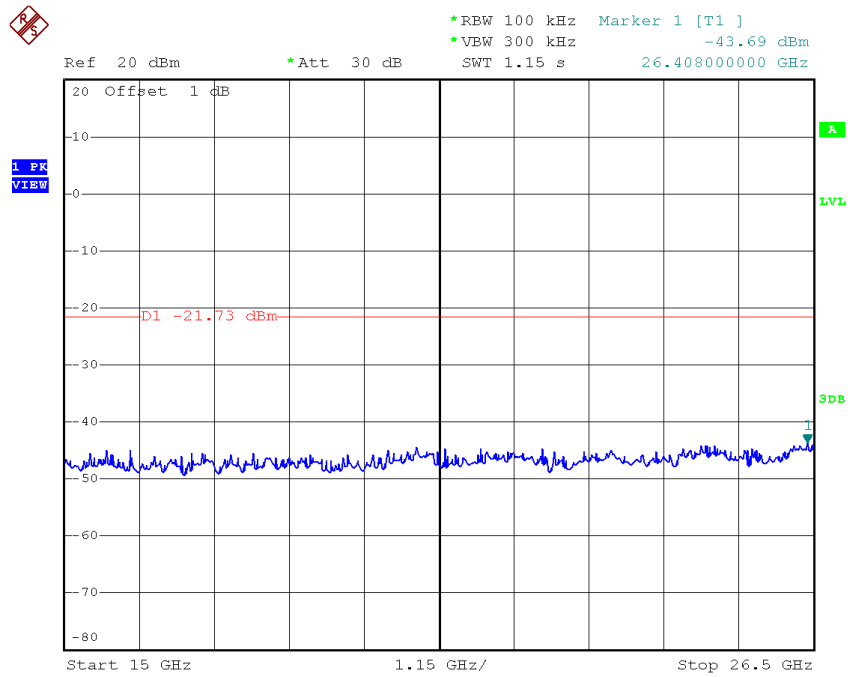
TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 3.NOV.2016 10:49:13

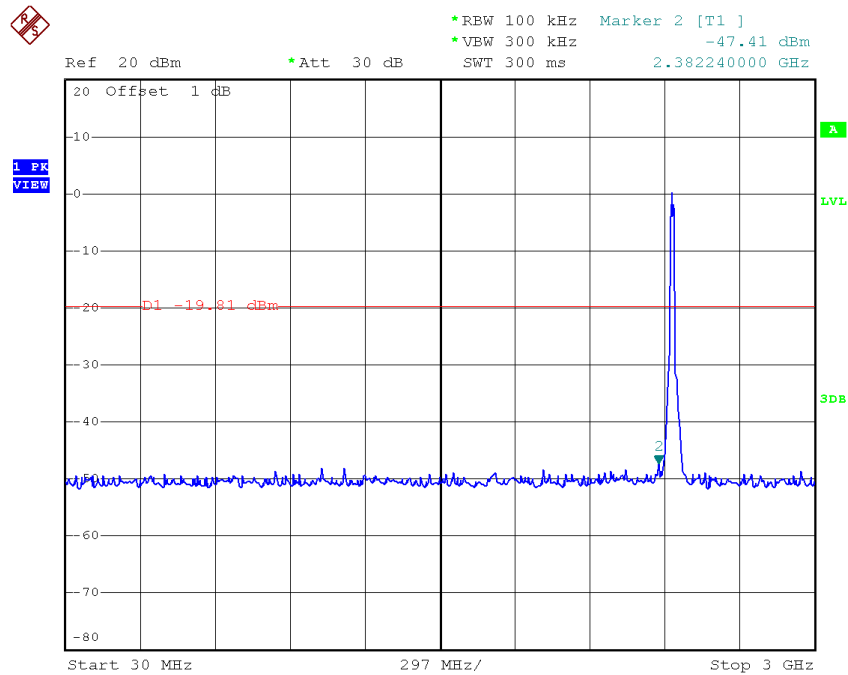


Date: 3.NOV.2016 10:49:22



Date: 3.NOV.2016 10:49:30

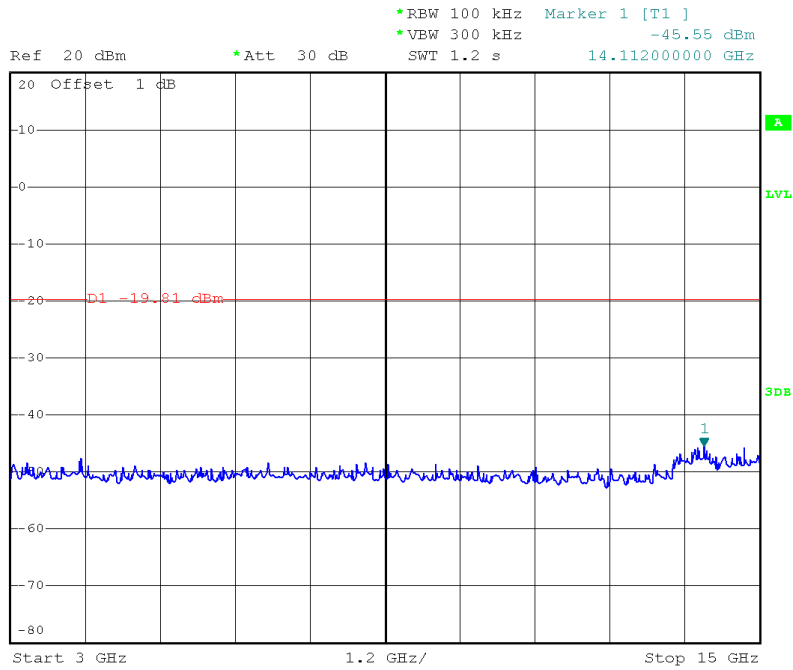
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 3.NOV.2016 10:51:59



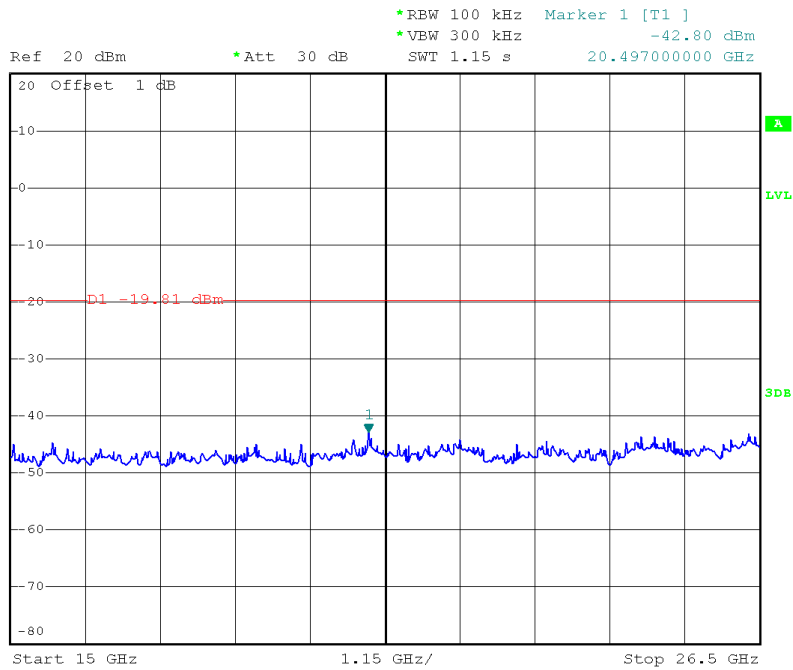
1 PK
VIEW



Date: 3.NOV.2016 10:52:07

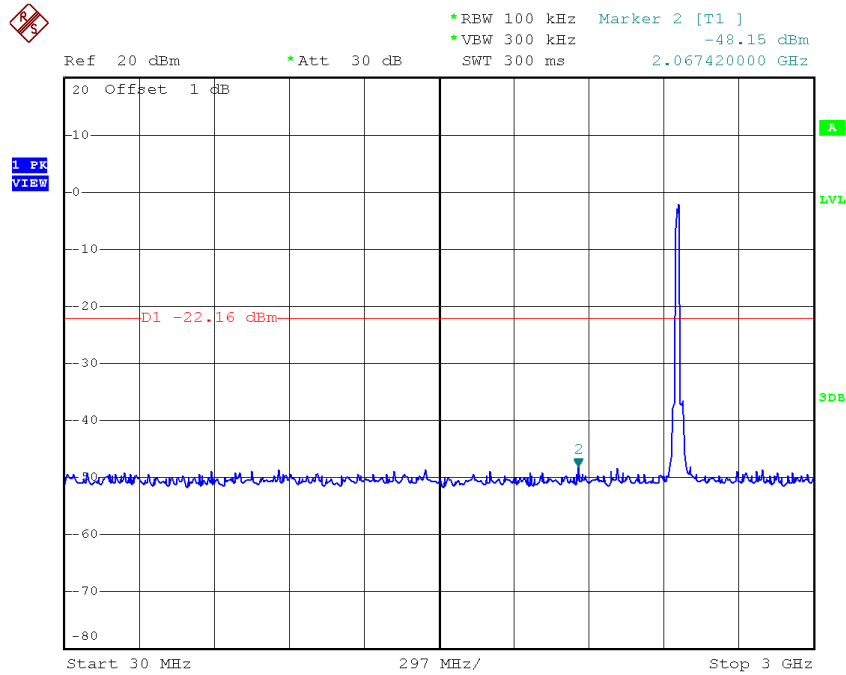


1 PK
VIEW

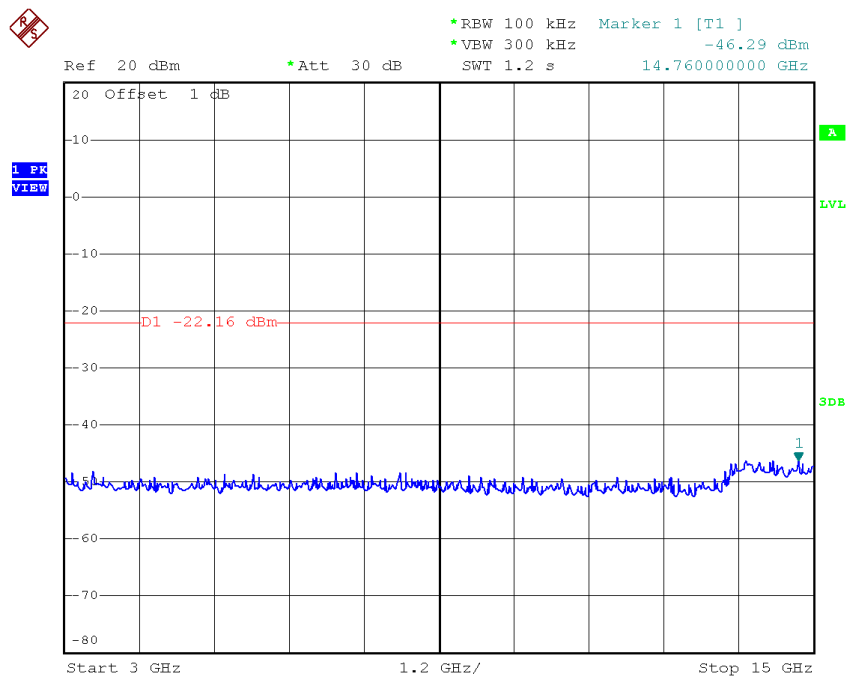


Date: 3.NOV.2016 10:52:15

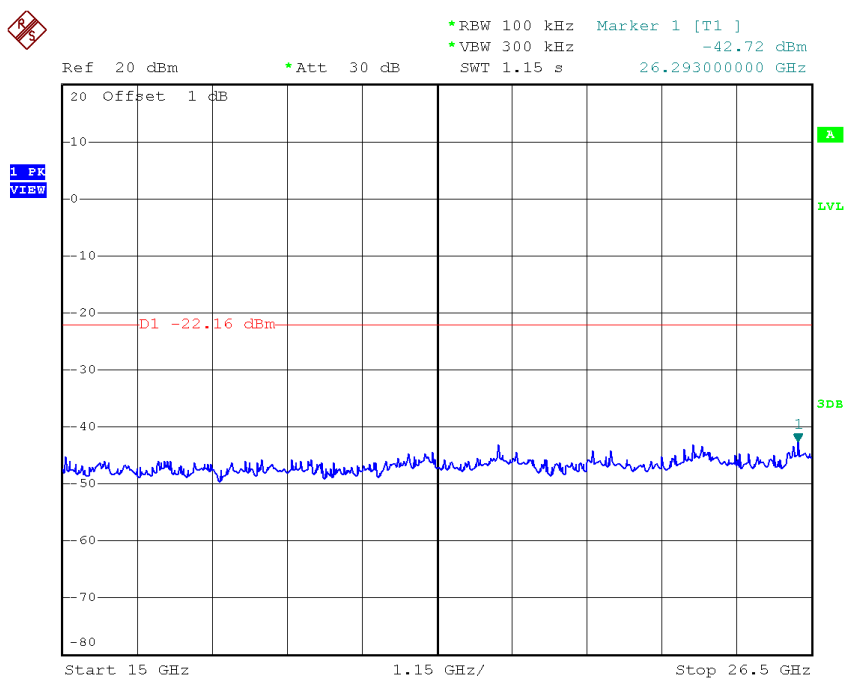
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 3.NOV.2016 10:53:45



Date: 3.NOV.2016 10:53:53



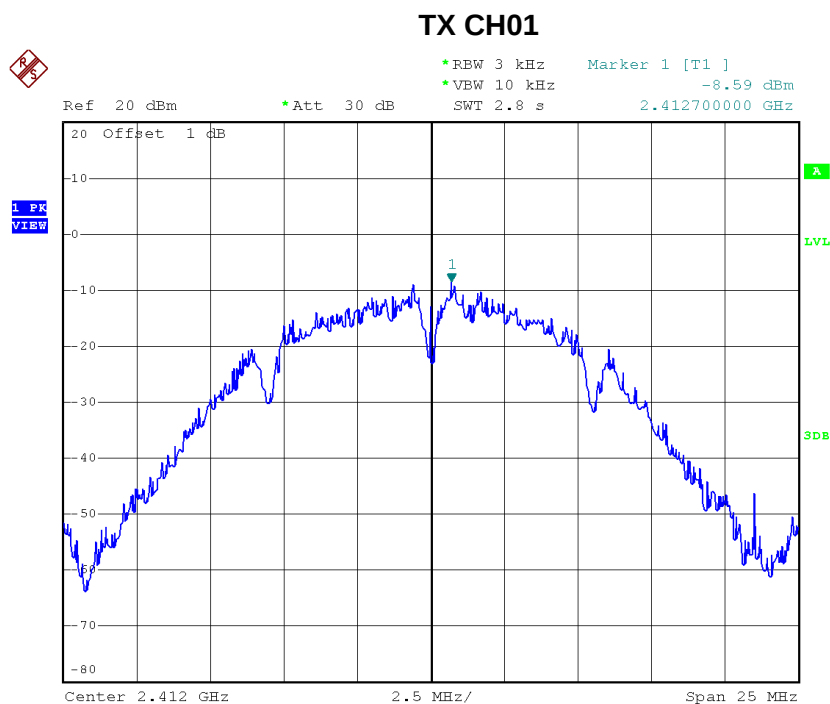
Date: 3.NOV.2016 10:54:01

ATTACHMENT H - POWER SPECTRAL DENSITY

For Chip antenna

Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.59	0.1384	8.00	Complies
2437	-8.61	0.1377	8.00	Complies
2462	-8.60	0.1380	8.00	Complies

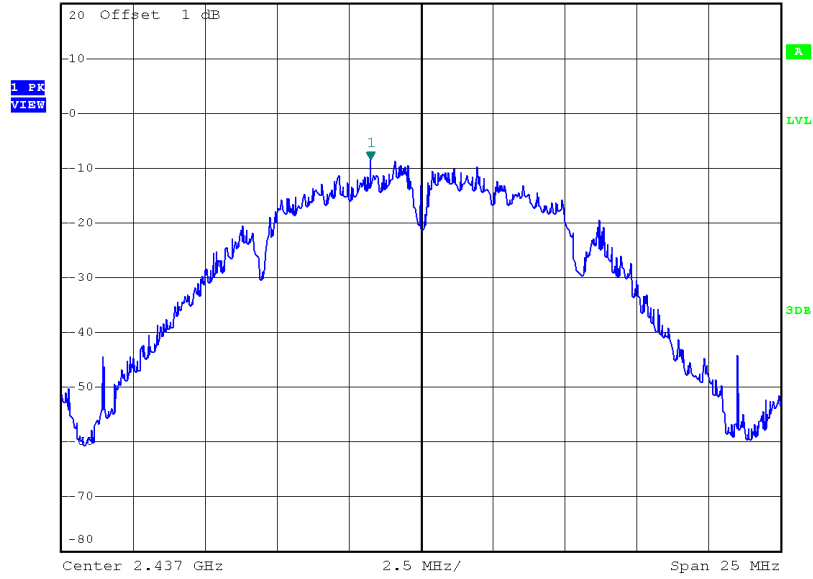


Date: 3.NOV.2016 13:37:47

TX CH06



Ref 20 dBm *Att 30 dB SWT 2.8 s
*RBW 3 kHz Marker 1 [T1] -8.61 dBm
*VBW 10 kHz 2.435250000 GHz

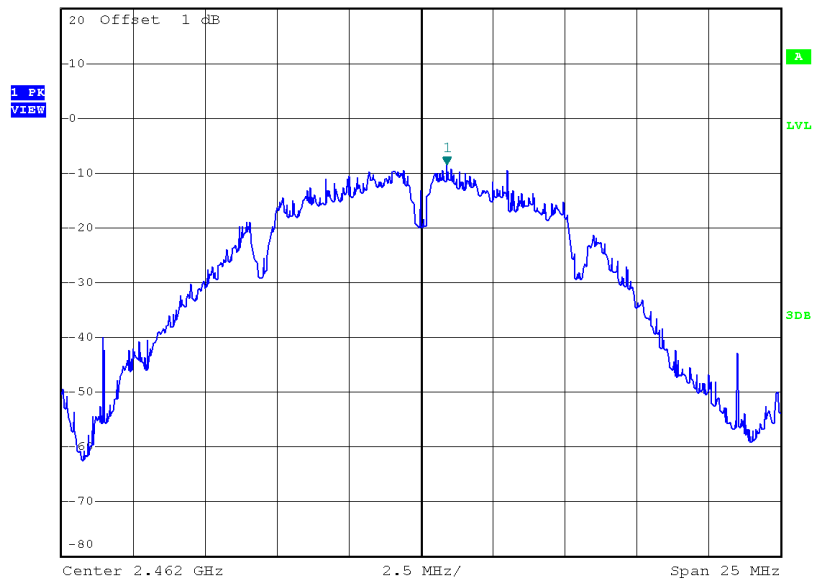


Date: 3.NOV.2016 13:40:23

TX CH11



Ref 20 dBm *Att 30 dB SWT 2.8 s
*RBW 3 kHz Marker 1 [T1] -8.60 dBm
*VBW 10 kHz 2.462900000 GHz

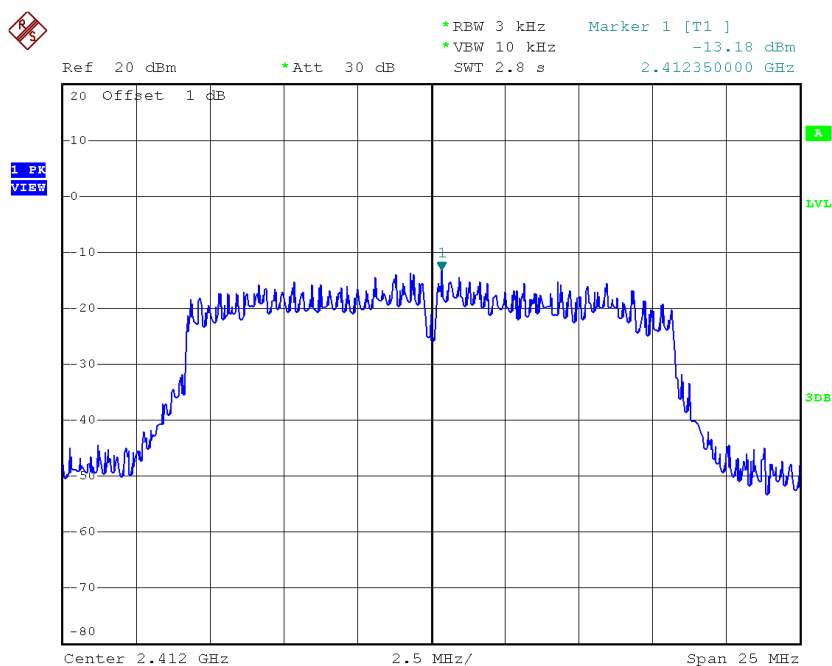


Date: 3.NOV.2016 13:42:34

Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.18	0.0481	8.00	Complies
2437	-13.32	0.0466	8.00	Complies
2462	-13.93	0.0405	8.00	Complies

TX CH01

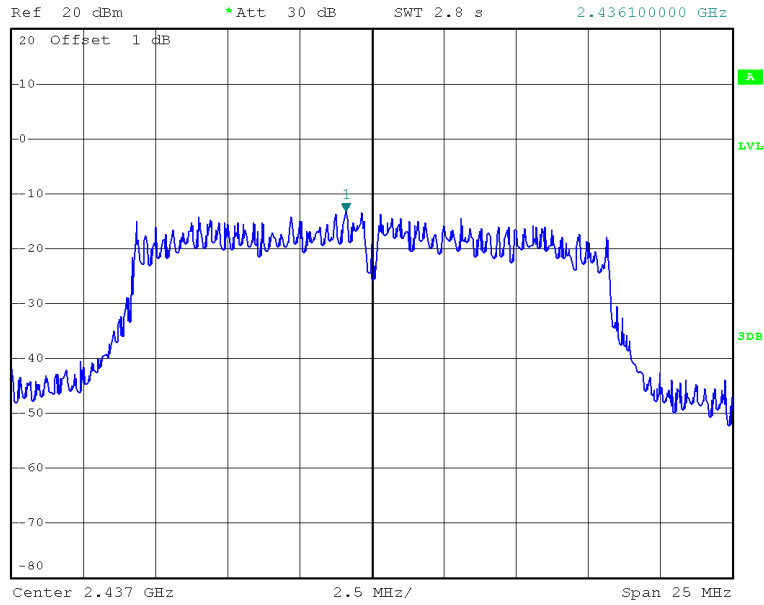


Date: 3.NOV.2016 13:44:45

TX CH06



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -13.32 dBm
SWT 2.8 s 2.436100000 GHz

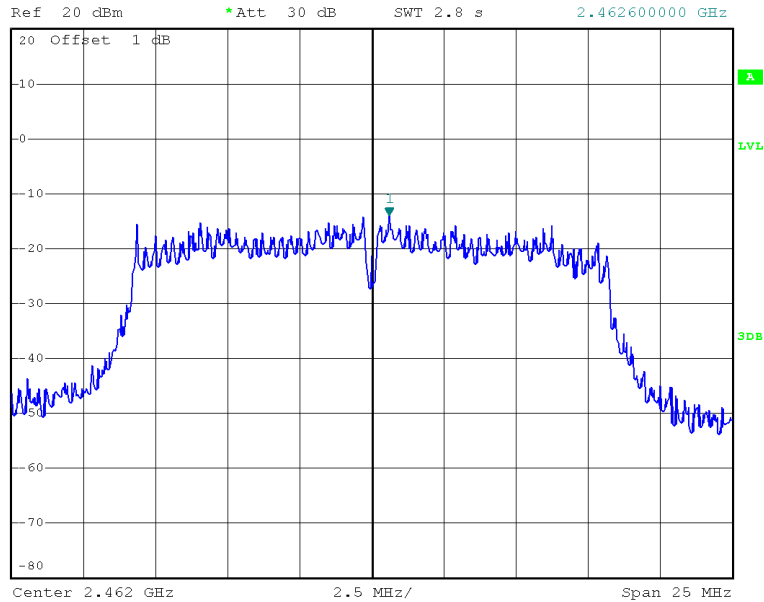


Date: 3.NOV.2016 13:46:50

TX CH11



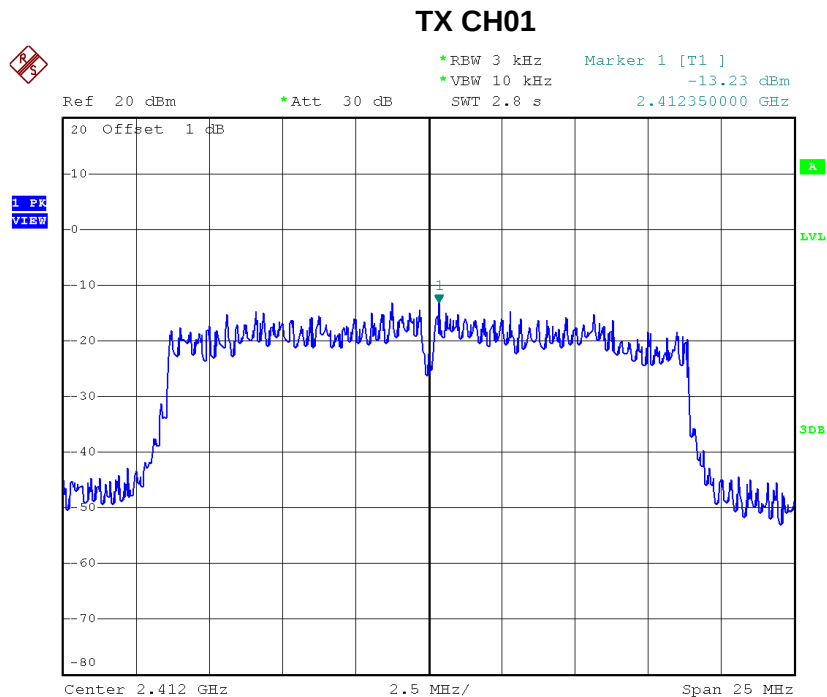
*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -13.93 dBm
SWT 2.8 s 2.462600000 GHz



Date: 3.NOV.2016 13:49:32

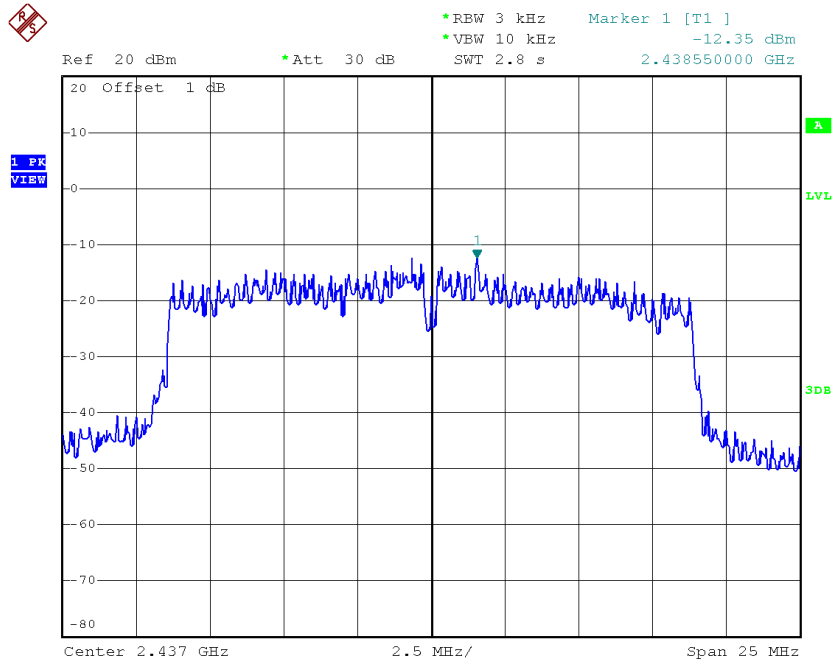
Test Mode : TX N-20M Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.23	0.0475	8.00	Complies
2437	-12.35	0.0582	8.00	Complies
2462	-12.52	0.0560	8.00	Complies



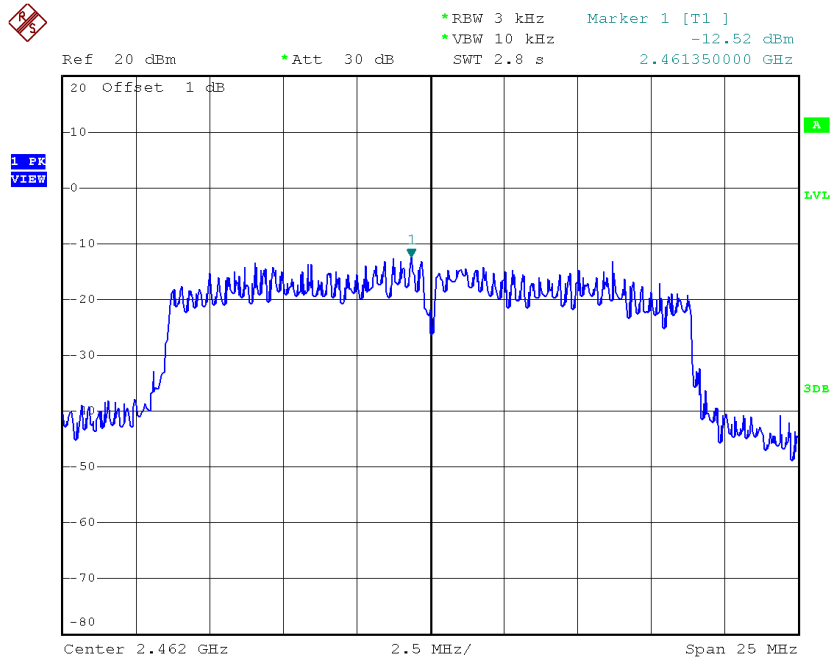
Date: 3.NOV.2016 13:51:19

TX CH06



Date: 3.NOV.2016 13:55:07

TX CH11



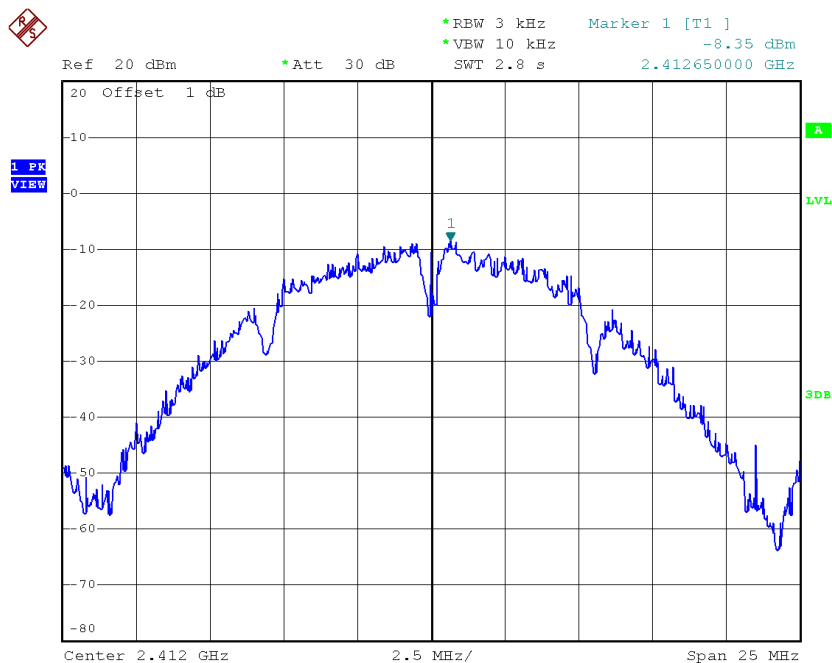
Date: 3.NOV.2016 13:56:51

For Dipole antenna

Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.35	0.1462	8.00	Complies
2437	-7.17	0.1919	8.00	Complies
2462	-6.71	0.2133	8.00	Complies

TX CH01

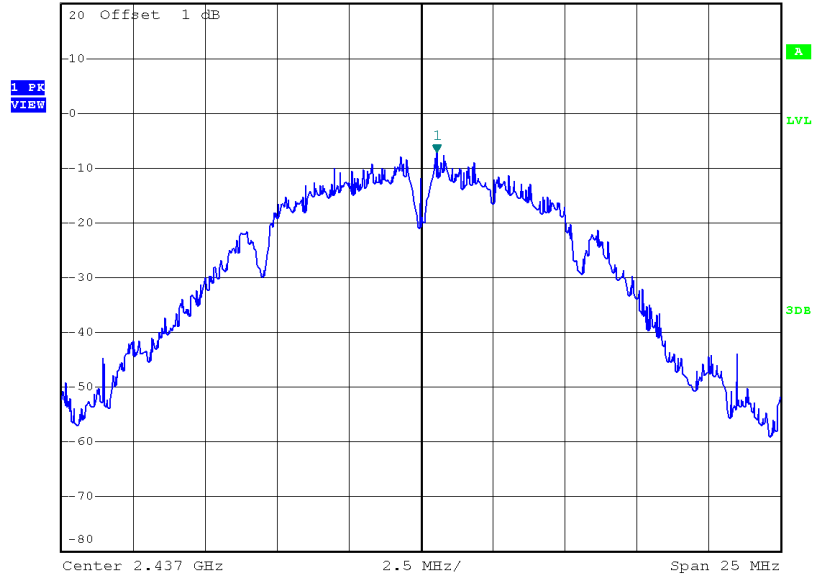


Date: 3.NOV.2016 10:28:55

TX CH06



Ref 20 dBm *Att 30 dB SWT 2.8 s
 *RBW 3 kHz Marker 1 [T1] -7.17 dBm
 *VBW 10 kHz 2.437550000 GHz

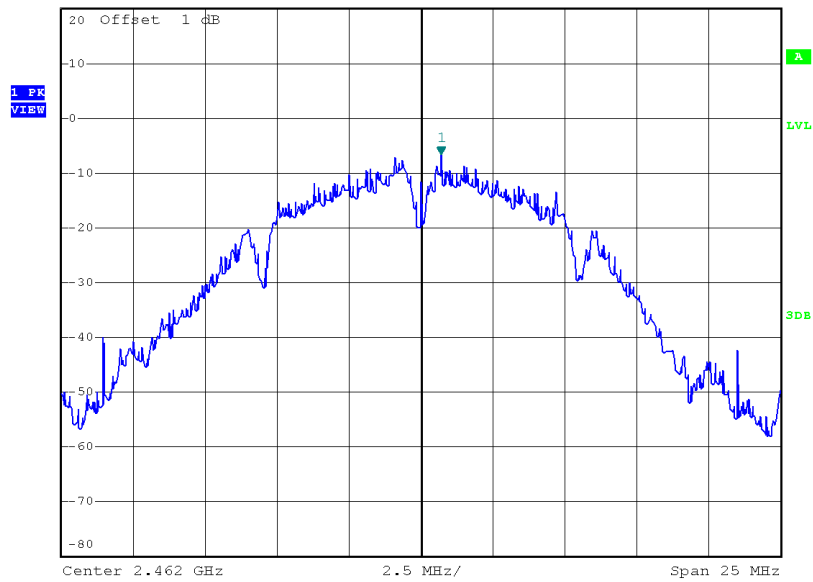


Date: 3.NOV.2016 10:30:47

TX CH11



Ref 20 dBm *Att 30 dB SWT 2.8 s
 *RBW 3 kHz Marker 1 [T1] -6.71 dBm
 *VBW 10 kHz 2.462700000 GHz

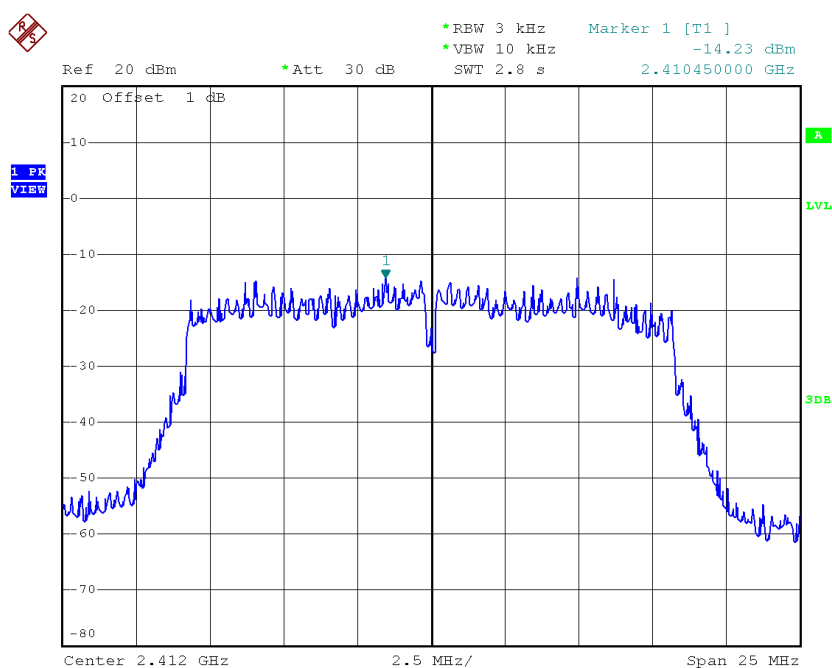


Date: 3.NOV.2016 10:32:30

Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.23	0.0378	8.00	Complies
2437	-13.30	0.0468	8.00	Complies
2462	-11.16	0.0766	8.00	Complies

TX CH01



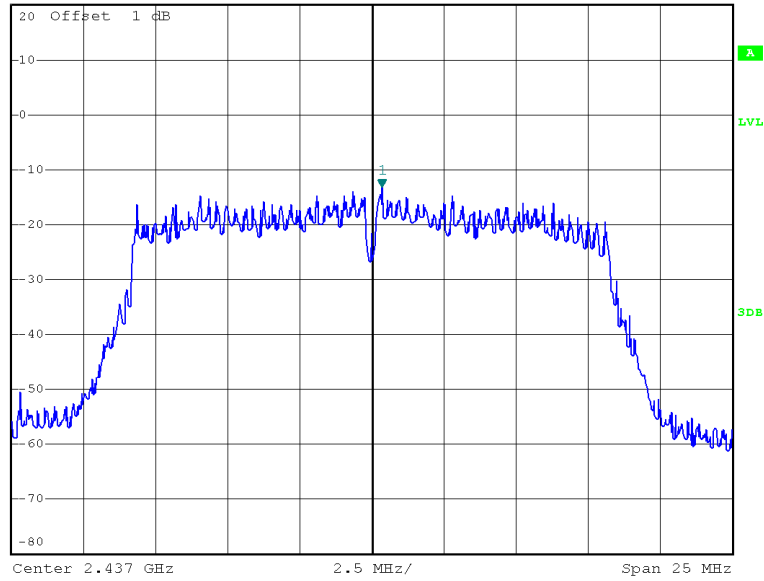
Date: 3.NOV.2016 10:37:55

TX CH06



Ref 20 dBm *Att 30 dB SWT 2.8 s
*RBW 3 kHz Marker 1 [T1] -13.30 dBm
*VBW 10 kHz 2.437350000 GHz

1 PK
VIEW



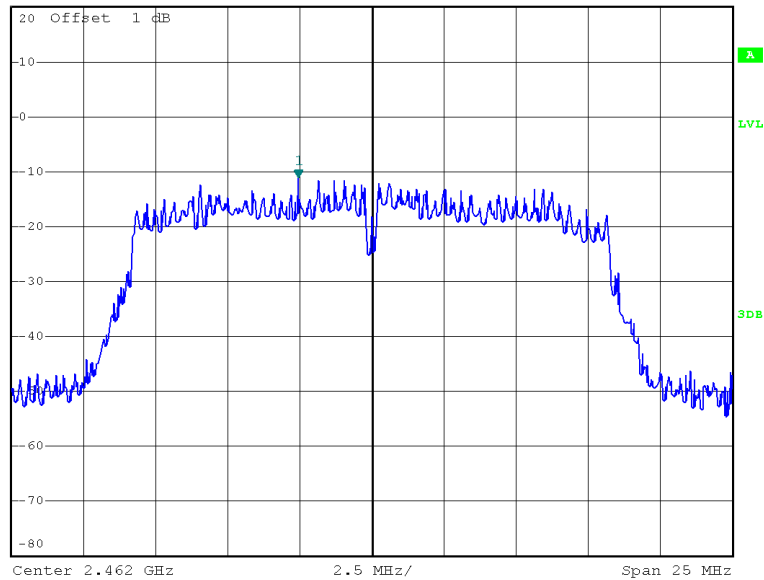
Date: 3.NOV.2016 10:45:59

TX CH11



Ref 20 dBm *Att 30 dB SWT 2.8 s
*RBW 3 kHz Marker 1 [T1] -11.16 dBm
*VBW 10 kHz 2.459450000 GHz

1 PK
VIEW

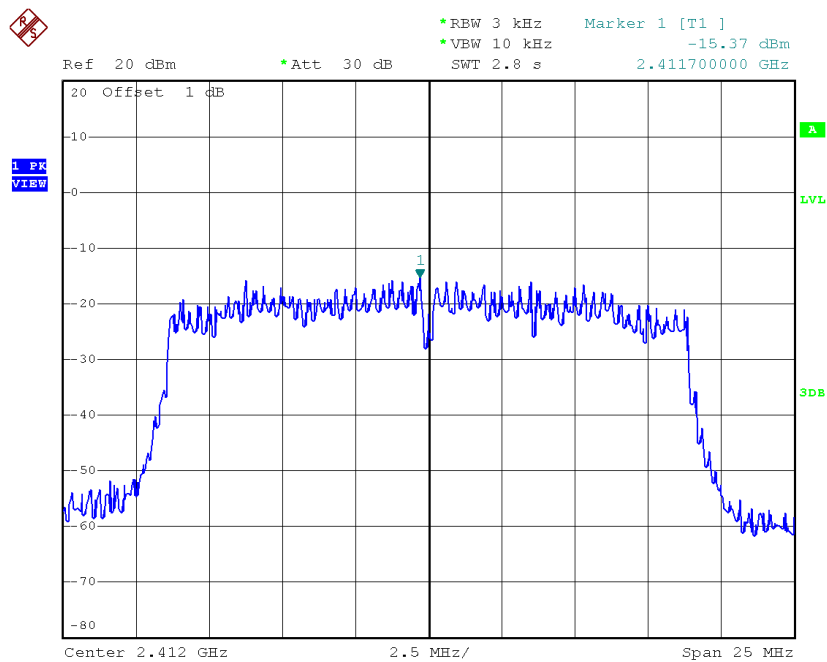


Date: 3.NOV.2016 10:47:48

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.37	0.0290	8.00	Complies
2437	-13.91	0.0406	8.00	Complies
2462	-13.90	0.0407	8.00	Complies

TX CH01

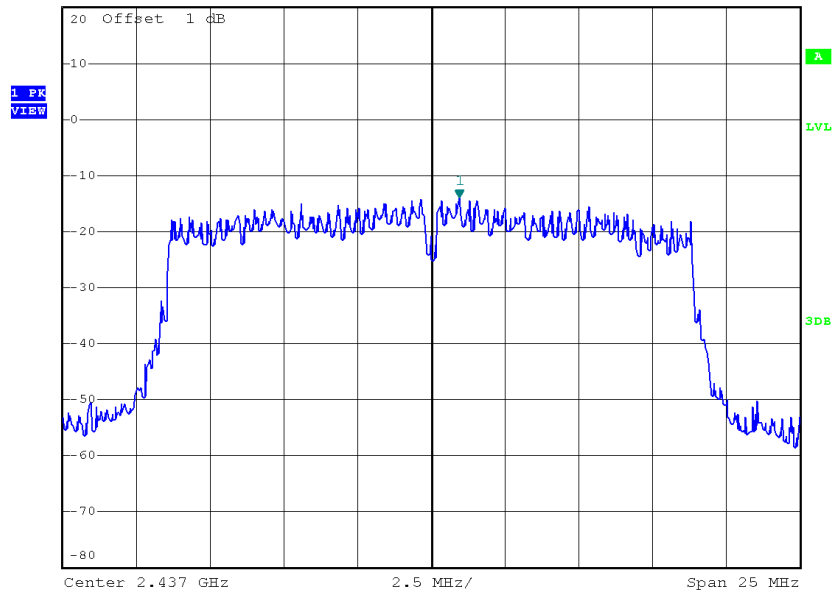


Date: 3.NOV.2016 10:49:46

TX CH06



Ref 20 dBm *Att 30 dB *RBW 3 kHz *VBW 10 kHz Marker 1 [T1]
SWT 2.8 s -13.91 dBm
2.437950000 GHz

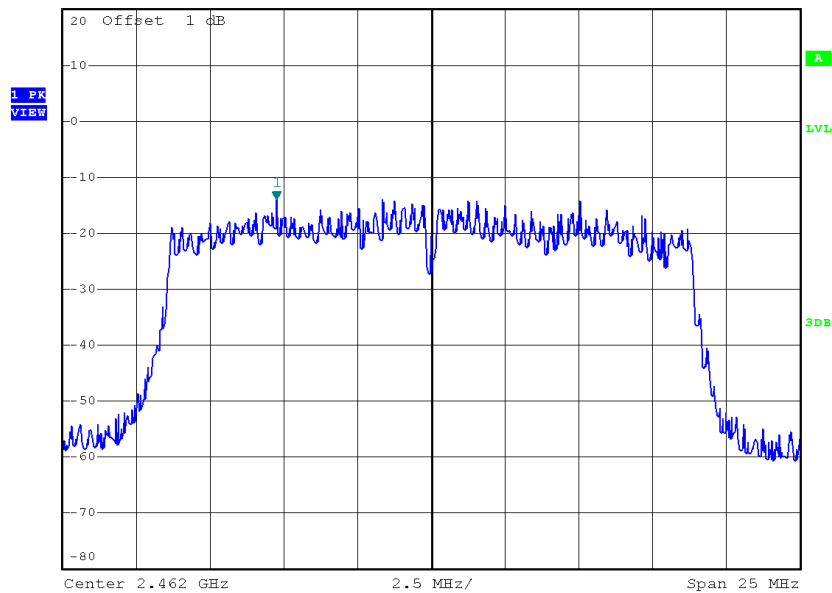


Date: 3.NOV.2016 10:52:24

TX CH11



Ref 20 dBm *Att 30 dB *RBW 3 kHz *VBW 10 kHz Marker 1 [T1]
SWT 2.8 s -13.90 dBm
2.456750000 GHz



Date: 3.NOV.2016 10:54:18

ATTACHMENT

PHOTOGRAPHS OF EUT

