

FCC Radio Test Report

FCC ID: NW71088

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

Project No. : 1603075
Equipment : ION 4K, ION 4K SPORT DIGITAL CAMERA,
ZEUS 1.6 CAMERA
Model Name : 1088, 1088X, 1089, 1089X, 1090, 1090X, 1091,
1091X, 1092, 1092X, 1093, 1093X, 1094, 1094X,
1095, 1095X (X=0~9 or A~Z)
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Date of Receipt : Mar. 22, 2016
Date of Test : Mar. 22, 2016 ~ Mar. 31, 2016
Issued Date : Aug. 15, 2016
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-3-1603075	Original Issue.	Aug. 15, 2016

1. CERTIFICATION

Equipment : ION 4K, ION 4K SPORT DIGITAL CAMERA, ZEUS 1.6 CAMERA
Brand Name : ION
Model Name : 1088, 1088X, 1089, 1089X, 1090, 1090X, 1091, 1091X, 1092, 1092X, 1093, 1093X, 1094, 1094X, 1095, 1095X (X=0~9 or A~Z)
Applicant : World Wide Licenses Limited
Date of Test : Mar. 22, 2016 ~ Mar. 31, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C (15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1603075) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247), Subpart C			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

NOTE:

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

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:949005; FCC DN:TW1082)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1GHz):

CB11: (VCCI RN: R-4260; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1GHz):

CB11: (VCCI RN: G-868; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

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)
C05	CISPR	150 kHz~30MHz	2.04

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)
CB11 (3m)	CISPR	9kHz ~ 150kHz	4.00
		150kHz ~ 30MHz	4.00

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11 (3m)	CISPR	30 MHz ~ 200 MHz	V	3.06
		30 MHz ~ 200 MHz	H	2.58
		200 MHz ~ 1, 000 MHz	V	3.50
		200 MHz ~ 1, 000 MHz	H	3.10

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11 (3m)	CISPR	1GHz ~ 6GHz	V	4.14
		1GHz ~ 6GHz	H	4.14

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11 (3m)	CISPR	6GHz ~ 18GHz	V	5.34
		6GHz ~ 18GHz	H	5.34

Test Site	Method	Measurement Frequency Range	U,(dB)
CB08 (3m)	CISPR	18 ~ 26.5 GHz	4.66
		26.5 ~ 40 GHz	4.74

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

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	ION 4K, ION 4K SPORT DIGITAL CAMERA, ZEUS 1.6 CAMERA	
Brand Name	ION	
Model Name	1088, 1088X, 1089, 1089X, 1090, 1090X, 1091, 1091X, 1092, 1092X, 1093, 1093X, 1094, 1094X, 1095, 1095X (X=0~9 or A~Z)	
Model Difference	Different model distribute to different area.	
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.)	802.11b: 12.81 dBm 802.11g: 21.03 dBm 802.11n(20MHz): 21.32 dBm
Power Source	#1 DC Voltage supplied from USB power source. #2 Supplied from battery. Model: FT853548P	
Power Rating	#1 I/P: DC --- 5.0~5.5V/1A #2 DC 3.7V 5.55Wh 1500mAh	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Channel List:

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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Yageo	ANT3216LL11R2 400A	Chip	N/A	-1.0

3.2 DESCRIPTION OF TEST MODES

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

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

Note:

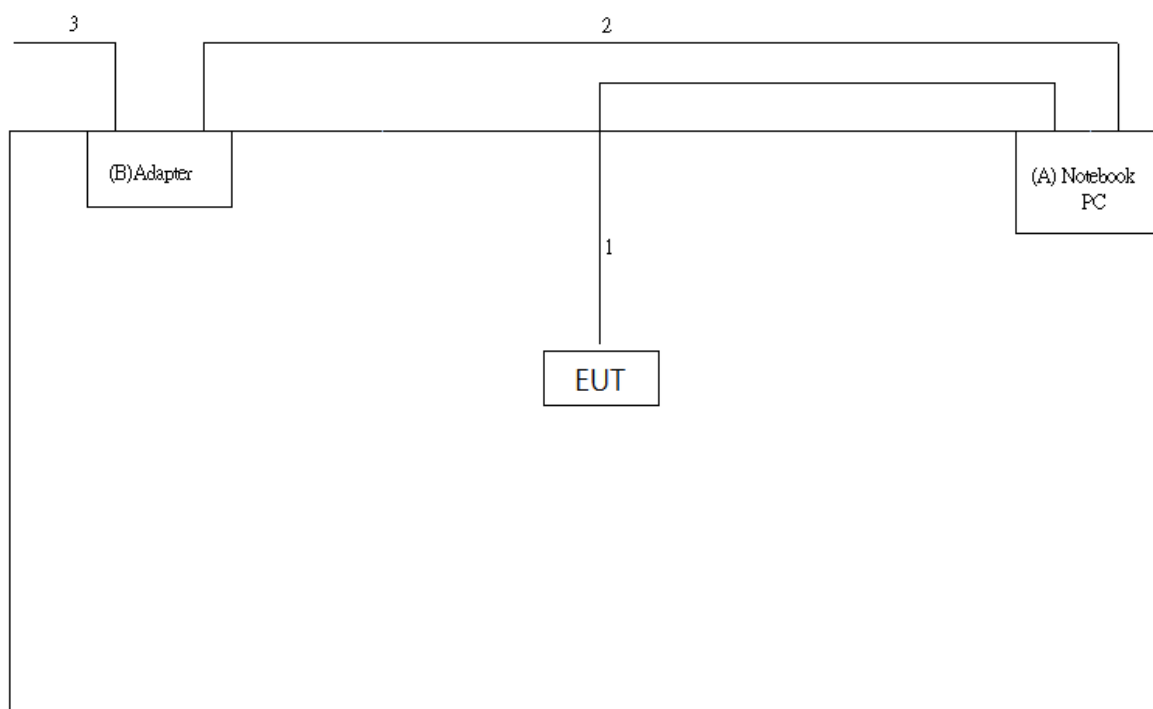
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode: BPSK (6.5Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b 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

Test software version	Amba FW Debug 01.03.20140804.OD		
Frequency (MHz)	2412	2437	2462
802.11b	A	A	A
802.11g	A	A	A
802.11n (20MHz)	A	A	A

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 PC	DELL	E5430	DOC	25285457557
B	Adapter	Dell Inc	HA65NS5-00	DOC	A065R039L

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.6m	USB Cable
2	NO	NO	1.8m	Power Cable
3	NO	NO	1.8m	Power 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 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

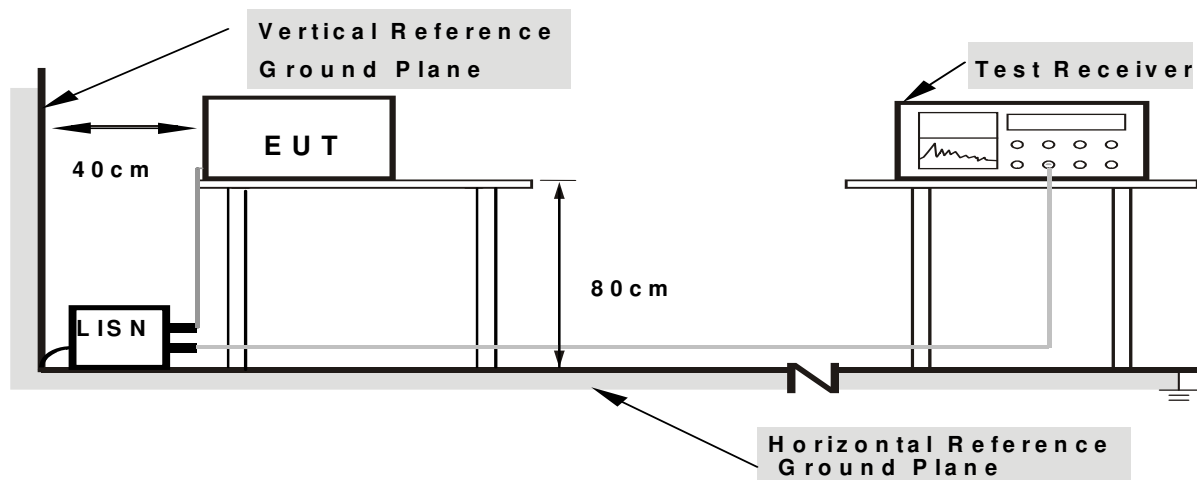
4.1.2 TEST PROCEDURE

- 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 cm from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

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

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

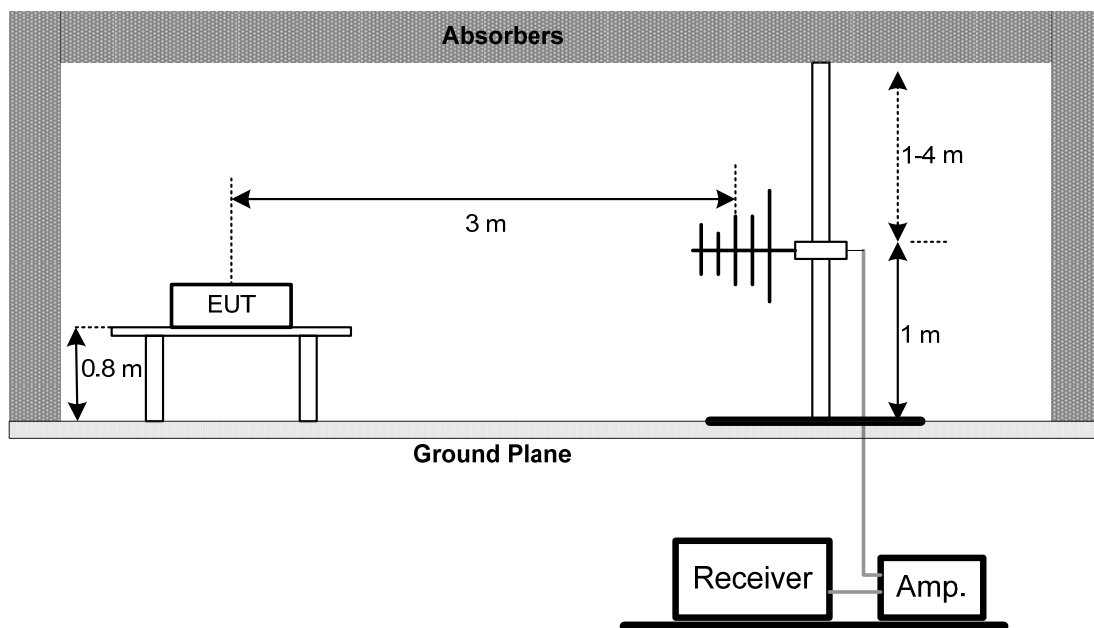
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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

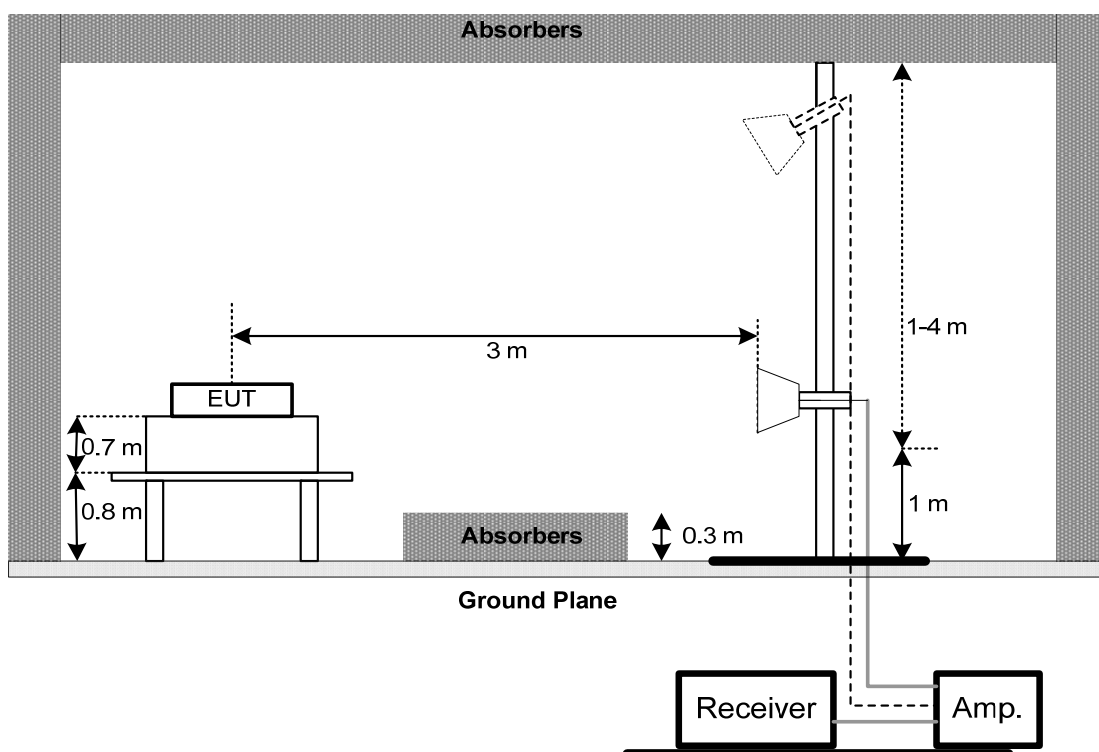
No deviation

4.2.4 TEST SETUP

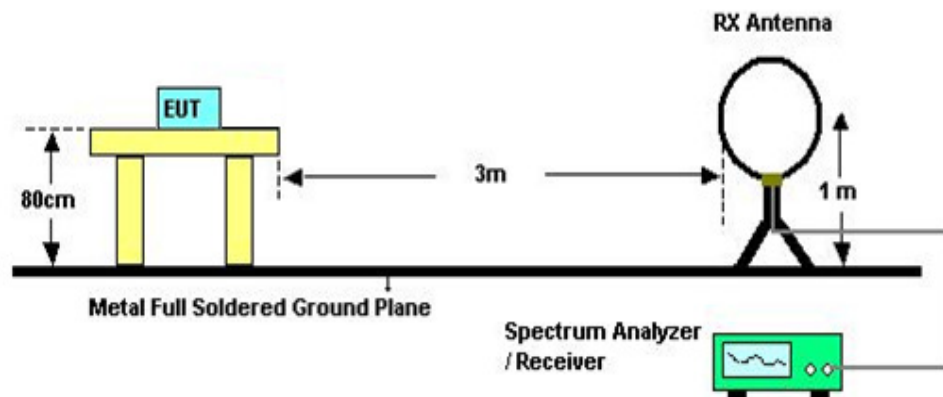
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: 45%

Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C
 Relative Humidity: 60%
 Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 TEST PROCEDURE

- 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 v03r05.

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: 60%
 Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C
 Relative Humidity: 60%
 Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C
 Relative Humidity: 60%
 Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 26, 2017
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 13, 2017
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 09, 2016
4	Power Dividers	HP	11636A	8103	May 03, 2017
5	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jul. 29, 2017
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 19, 2017
3	Horn Antenna	Schwarzbeck	BBHA 9120	9120D-1333	May 19, 2017
4	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 15, 2017
5	Pre-Amplifier	Agilent	8449B	3008A01714	Apr. 13, 2017
6	Test Cable	LMR	LMR-400	01(10M)	May 11, 2017
7	Test Cable	LMR	LMR-400	01(3M)	May 11, 2017
8	Test Cable	Harbour industries	27478LL142	1M	May 11, 2017
9	Test Cable	Harbour industries	27478LL142	3M	May 11, 2017
10	Test Cable	AISI	S104-SMAP-1	8M	May 11, 2017
11	Spectrum Analyzer	Agilent	N9020A	MY51160196	Aug. 01, 2017
12	EMI Test Receiver	R&S	ESCI	100080	May 12, 2017
13	Measurement Software	Farad	EZ EMC (Version NB-03A)	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	100129	Jan. 17, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	May 18, 2017
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 17, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

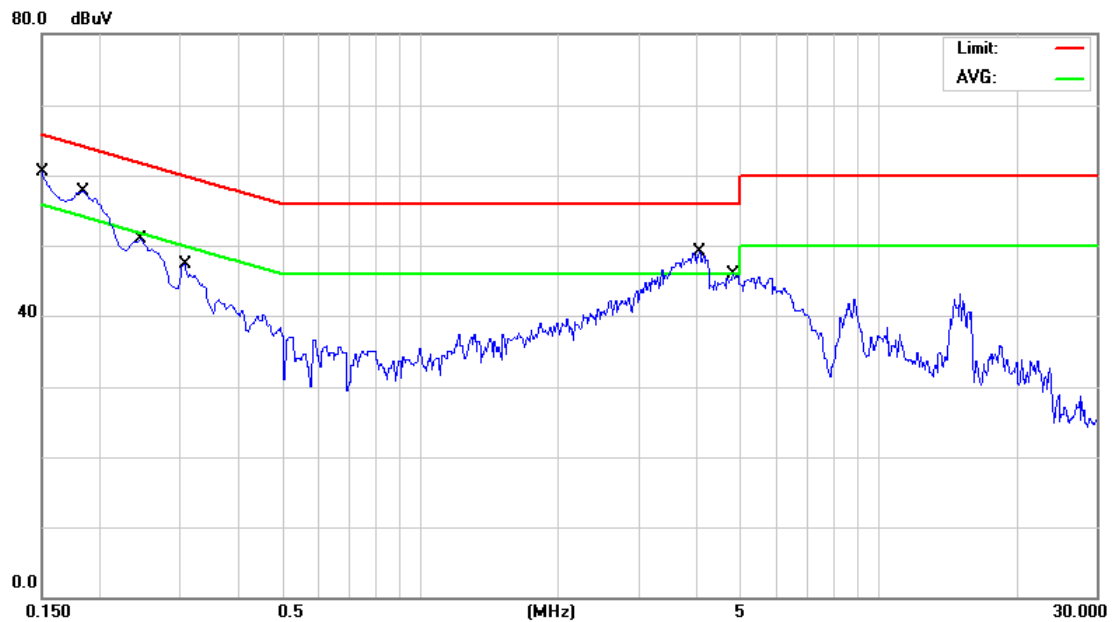
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

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

ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX Mode

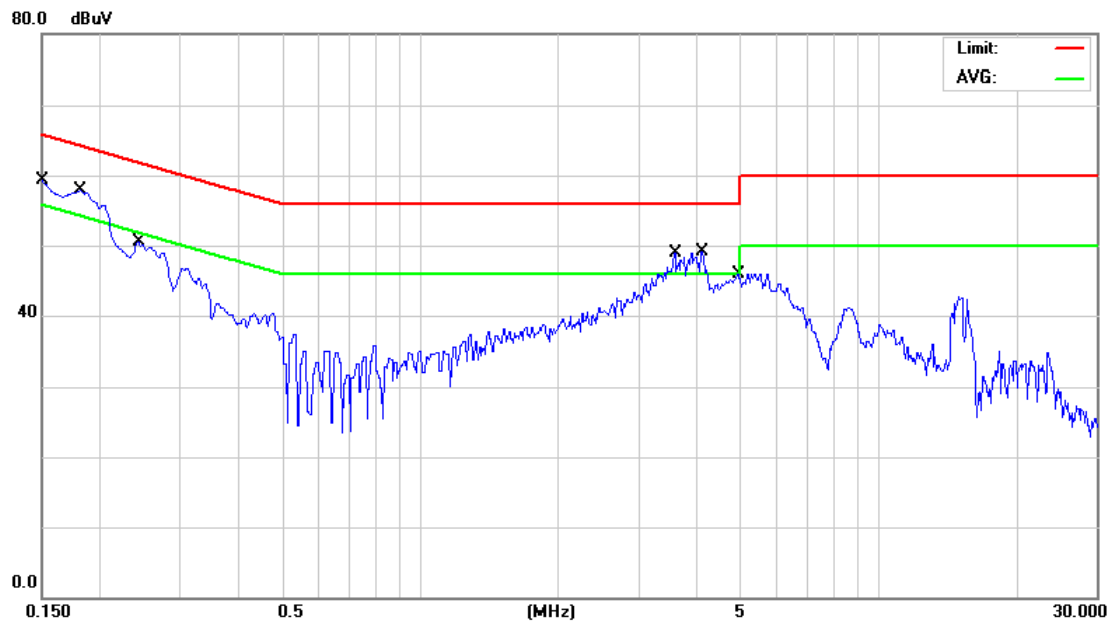
Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1500	36.40	9.68	46.08	65.99	-19.91	QP	
2		0.1500	22.10	9.68	31.78	55.99	-24.21	AVG	
3	*	0.1843	42.50	9.68	52.18	64.28	-12.10	QP	
4		0.1843	27.50	9.68	37.18	54.28	-17.10	AVG	
5		0.2466	35.60	9.68	45.28	61.87	-16.59	QP	
6		0.2466	16.50	9.68	26.18	51.87	-25.69	AVG	
7		0.3068	30.70	9.68	40.38	60.05	-19.67	QP	
8		0.3068	14.00	9.68	23.68	50.05	-26.37	AVG	
9		4.0640	33.00	9.86	42.86	56.00	-13.14	QP	
10		4.0640	23.60	9.86	33.46	46.00	-12.54	AVG	
11		4.8110	29.50	9.89	39.39	56.00	-16.61	QP	
12		4.8110	21.70	9.89	31.59	46.00	-14.41	AVG	

Test Mode: TX Mode

Neutral

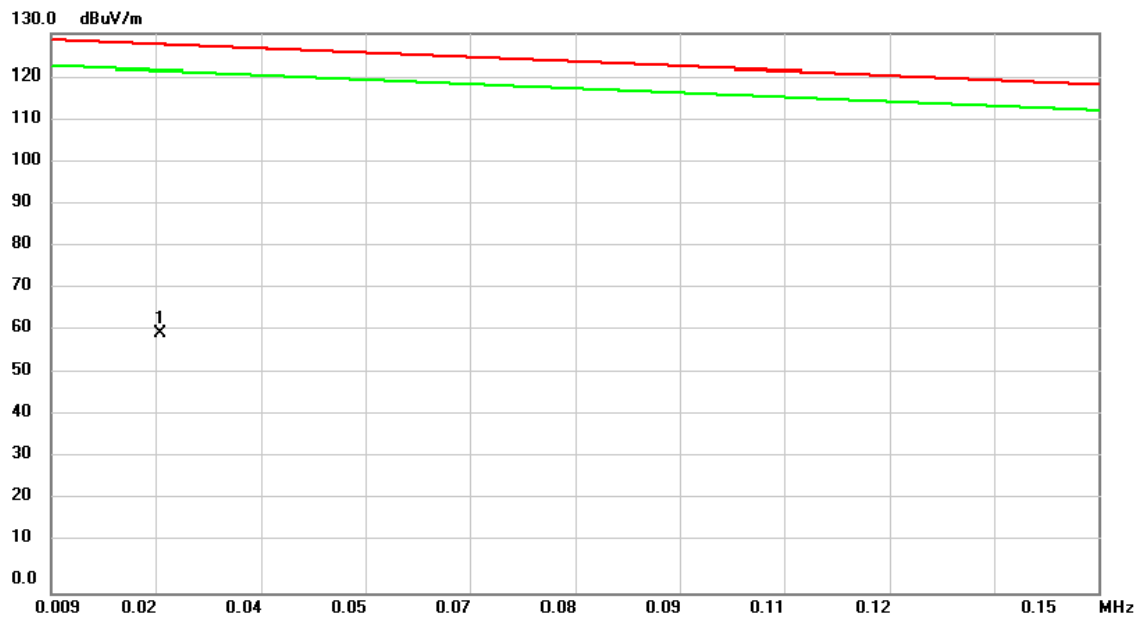


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1500	36.50	9.69	46.19	65.99	-19.80	QP	
2		0.1500	21.70	9.69	31.39	55.99	-24.60	AVG	
3	*	0.1815	43.40	9.68	53.08	64.41	-11.33	QP	
4		0.1815	25.10	9.68	34.78	54.41	-19.63	AVG	
5		0.2438	27.00	9.68	36.68	61.96	-25.28	QP	
6		0.2438	12.60	9.68	22.28	51.96	-29.68	AVG	
7		3.5870	30.80	9.84	40.64	56.00	-15.36	QP	
8		3.5870	21.30	9.84	31.14	46.00	-14.86	AVG	
9		4.1180	30.10	9.86	39.96	56.00	-16.04	QP	
10		4.1180	21.60	9.86	31.46	46.00	-14.54	AVG	
11		5.0000	28.60	9.90	38.50	56.00	-17.50	QP	
12		5.0000	21.60	9.90	31.50	46.00	-14.50	AVG	

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

Test Mode: TX Mode

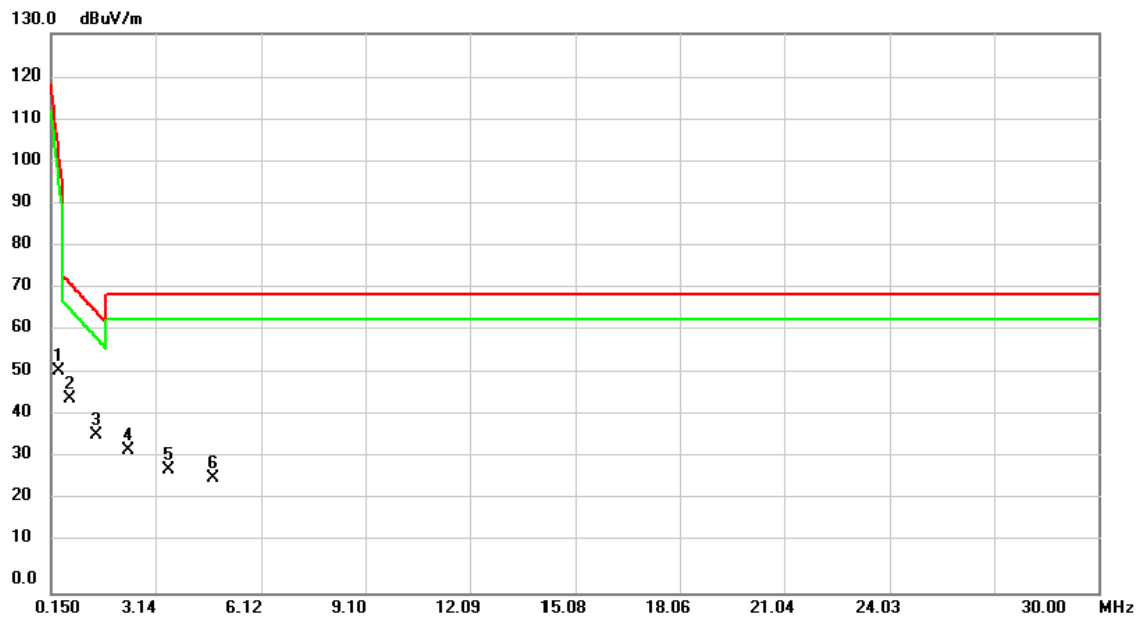
OPEN



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0237	43.55	16.73	60.28	127.46	-67.18	peak	

Test Mode: TX Mode

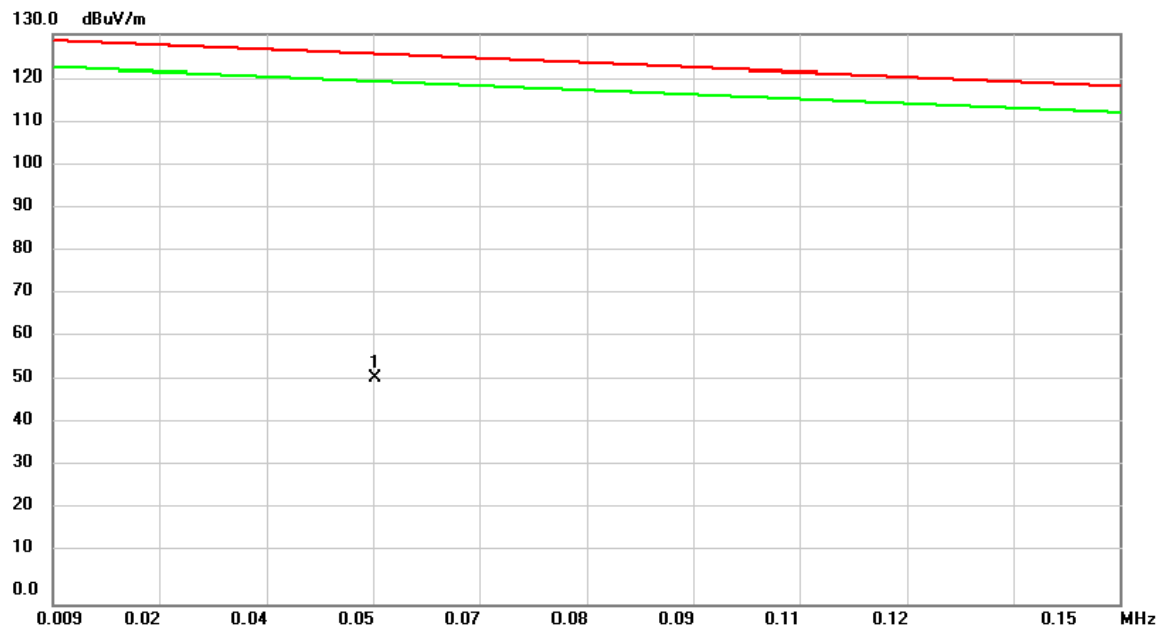
OPEN



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.3490	39.98	11.80	51.78	103.98	-52.20	peak	
2	*	0.6674	33.36	11.87	45.23	72.22	-26.99	peak	
3		1.4633	25.08	11.79	36.87	65.12	-28.25	peak	
4		2.3390	21.84	11.40	33.24	69.54	-36.30	peak	
5		3.4932	17.65	11.17	28.82	69.54	-40.72	peak	
6		4.7668	15.48	11.37	26.85	69.54	-42.69	peak	

Test Mode: TX Mode

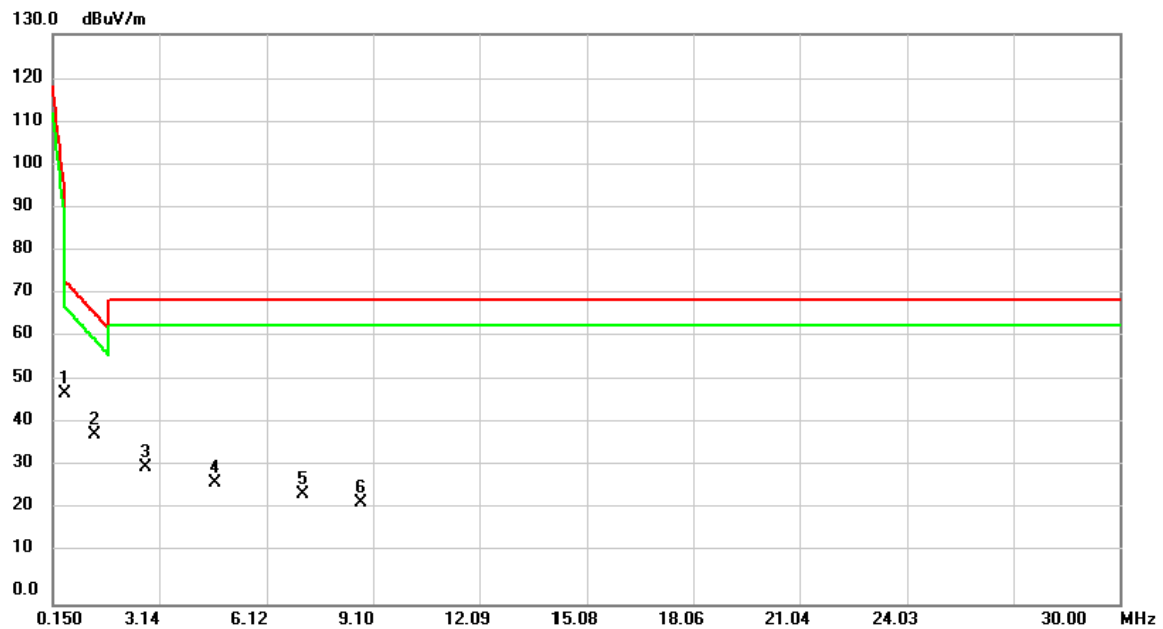
CLOSE



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0515	38.78	12.97	51.75	125.45	-73.70	peak	

Test Mode: TX Mode

CLOSE

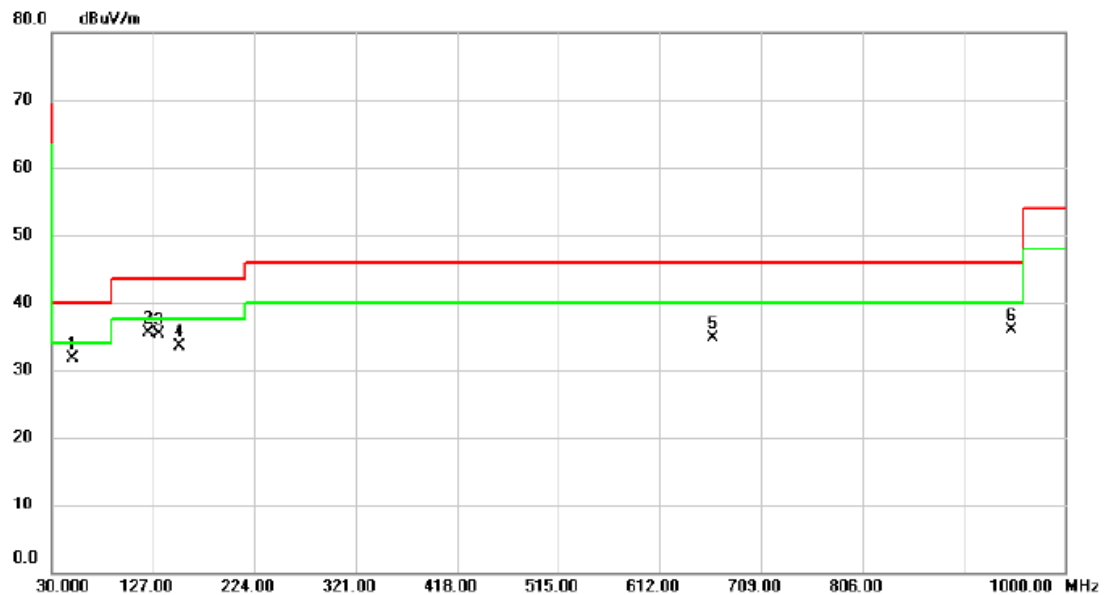


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.4684	36.41	11.80	48.21	95.36	-47.15	peak	
2	*	1.3042	27.03	11.86	38.89	66.54	-27.65	peak	
3		2.7370	20.08	11.22	31.30	69.54	-38.24	peak	
4		4.6872	16.54	11.35	27.89	69.54	-41.65	peak	
5		7.1150	13.83	11.36	25.19	69.54	-44.35	peak	
6		8.7468	11.90	11.33	23.23	69.54	-46.31	peak	

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

Test Mode: TX Mode

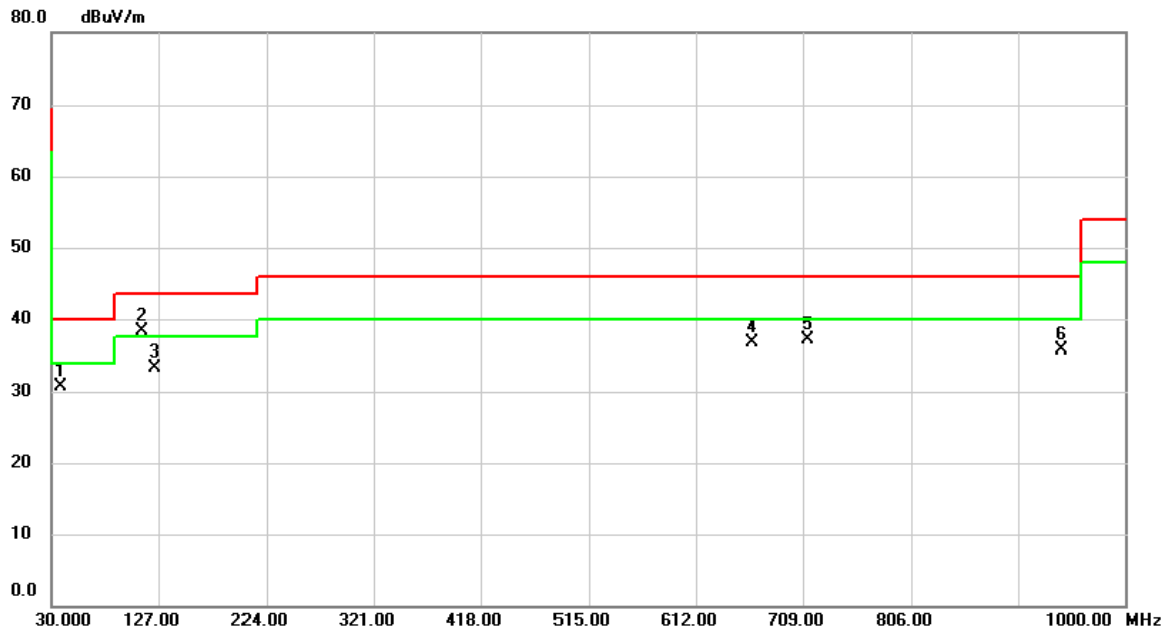
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		49.4000	39.86	-8.25	31.61	40.00	-8.39	peak	
2	*	122.1500	45.86	-10.28	35.58	43.50	-7.92	peak	
3		132.8200	44.59	-9.31	35.28	43.50	-8.22	peak	
4		152.2200	42.26	-8.70	33.56	43.50	-9.94	peak	
5		663.4100	34.31	0.48	34.79	46.00	-11.21	peak	
6		948.5900	30.44	5.45	35.89	46.00	-10.11	peak	

Test Mode: TX Mode

Horizontal

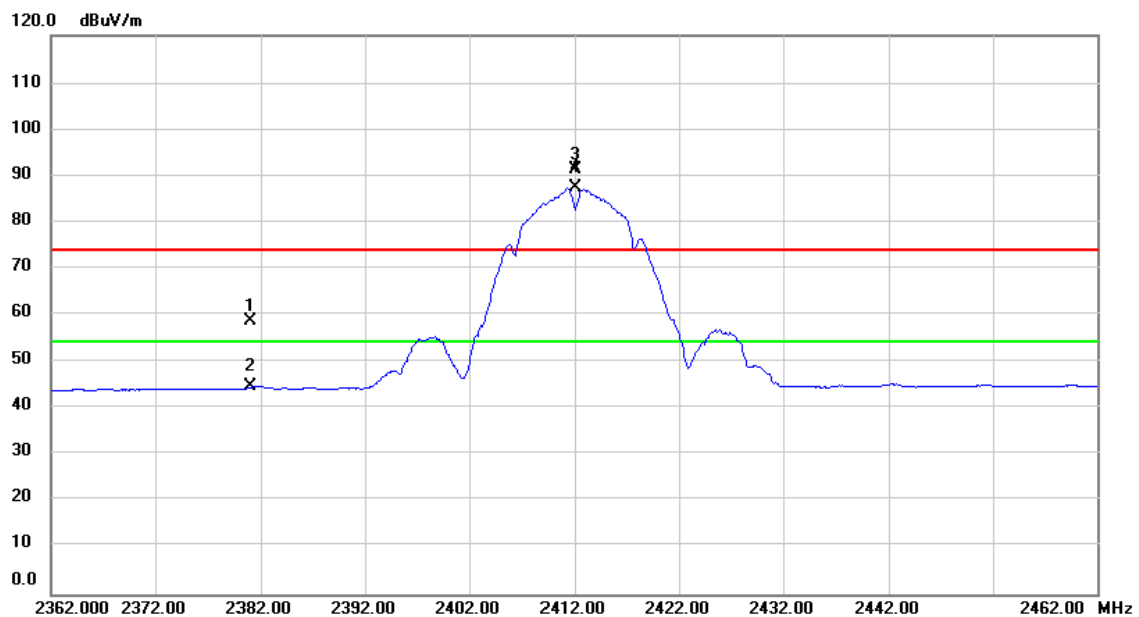


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		38.7300	39.44	-8.75	30.69	40.00	-9.31	peak	
2	*	111.4800	49.27	-10.99	38.28	43.50	-5.22	peak	
3		124.0900	43.41	-10.10	33.31	43.50	-10.19	peak	
4		663.4100	36.26	0.48	36.74	46.00	-9.26	peak	
5		712.8800	35.62	1.57	37.19	46.00	-8.81	peak	
6		942.7700	30.43	5.35	35.78	46.00	-10.22	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode: TX B MODE 2412MHz

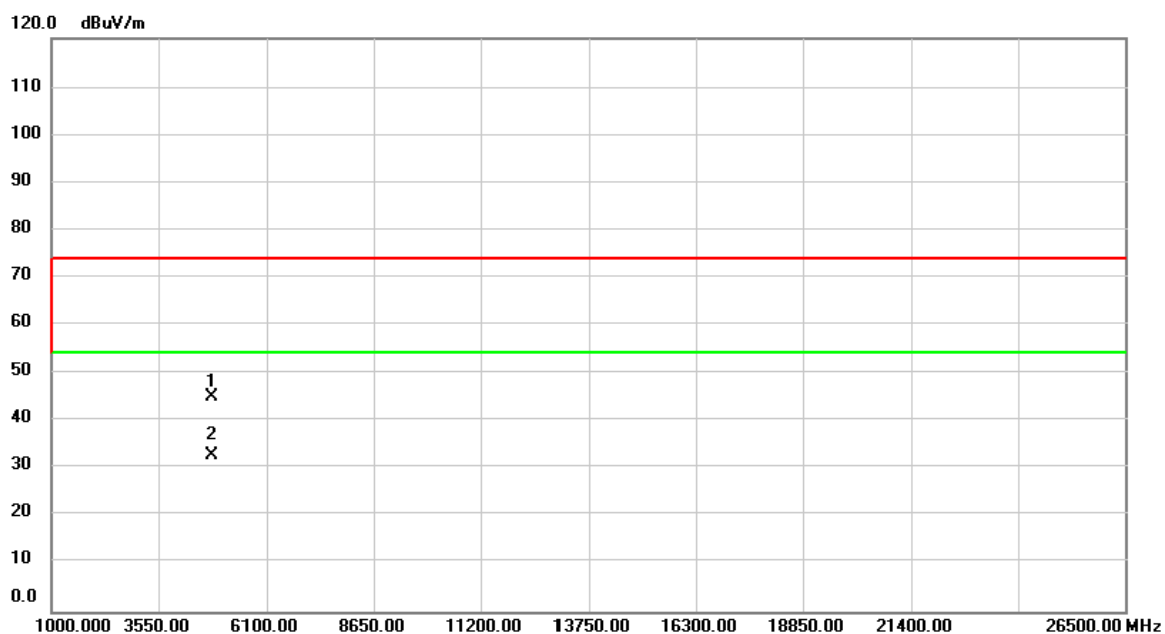
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2381.000	27.13	31.67	58.80	74.00	-15.20	peak	
2	2381.000	13.20	31.67	44.87	54.00	-9.13	AVG	
3 X	2412.000	59.53	31.79	91.32	74.00	17.32	peak	No Limit
4 *	2412.000	55.61	31.79	87.40	54.00	33.40	AVG	No Limit

Test Mode:	TX B MODE 2412MHz
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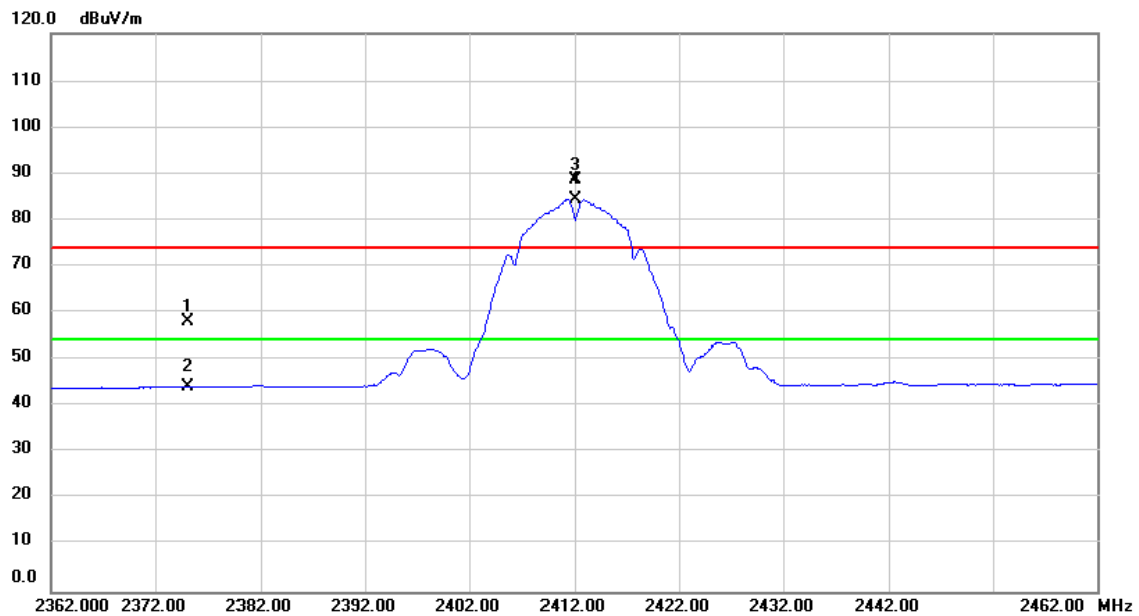
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	55.72	-10.48	45.24	74.00	-28.76	peak	
2	*	4824.000	43.32	-10.48	32.84	54.00	-21.16	AVG	

Test Mode: TX B MODE 2412MHz

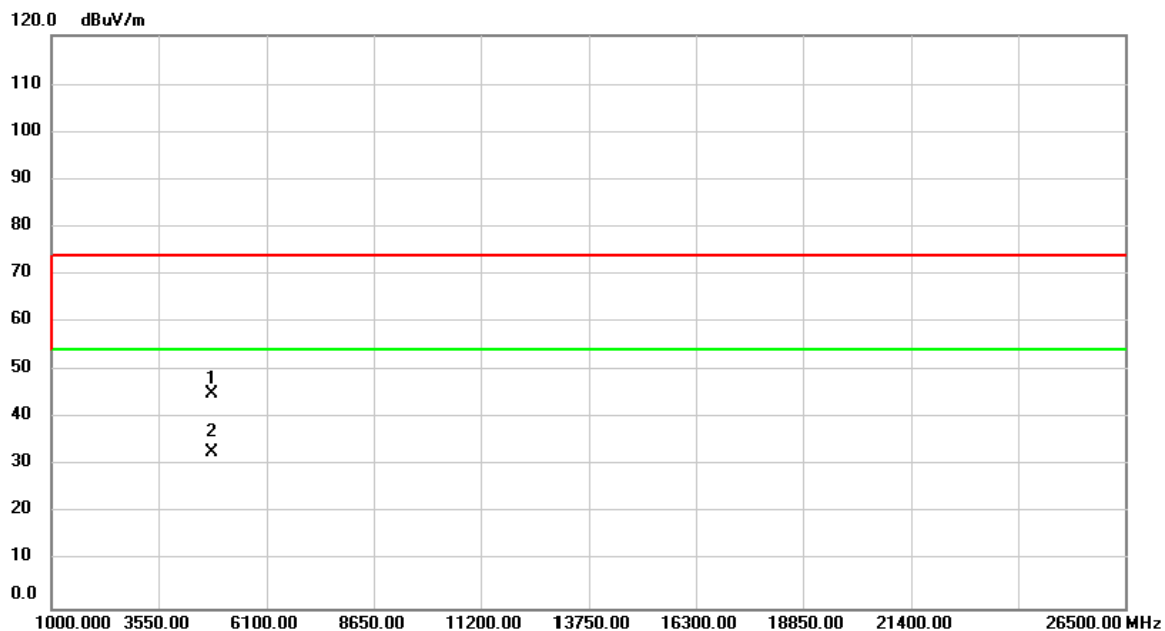
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2375.132	26.47	31.65	58.12	74.00	-15.88	peak	
2		2375.132	12.73	31.65	44.38	54.00	-9.62	AVG	
3	X	2412.000	56.94	31.79	88.73	74.00	14.73	peak	No Limit
4	*	2412.000	52.68	31.79	84.47	54.00	30.47	AVG	No Limit

Test Mode:	TX B MODE 2412MHz
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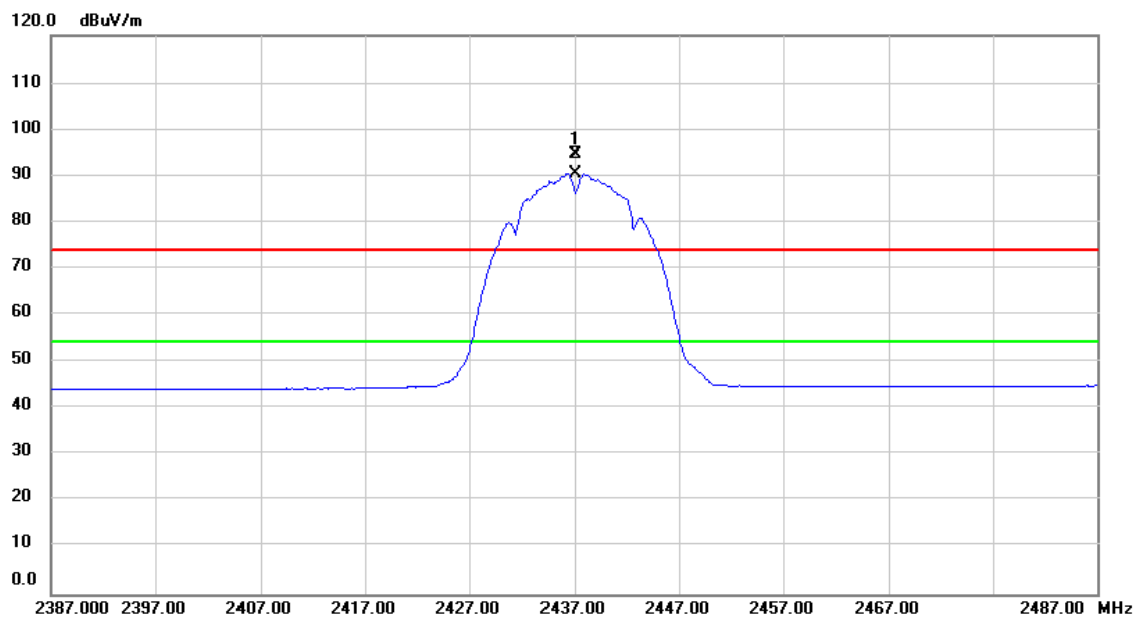
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	55.59	-10.48	45.11	74.00	-28.89	peak	
2	*	4824.000	43.28	-10.48	32.80	54.00	-21.20	AVG	

Test Mode: TX B MODE 2437MHz

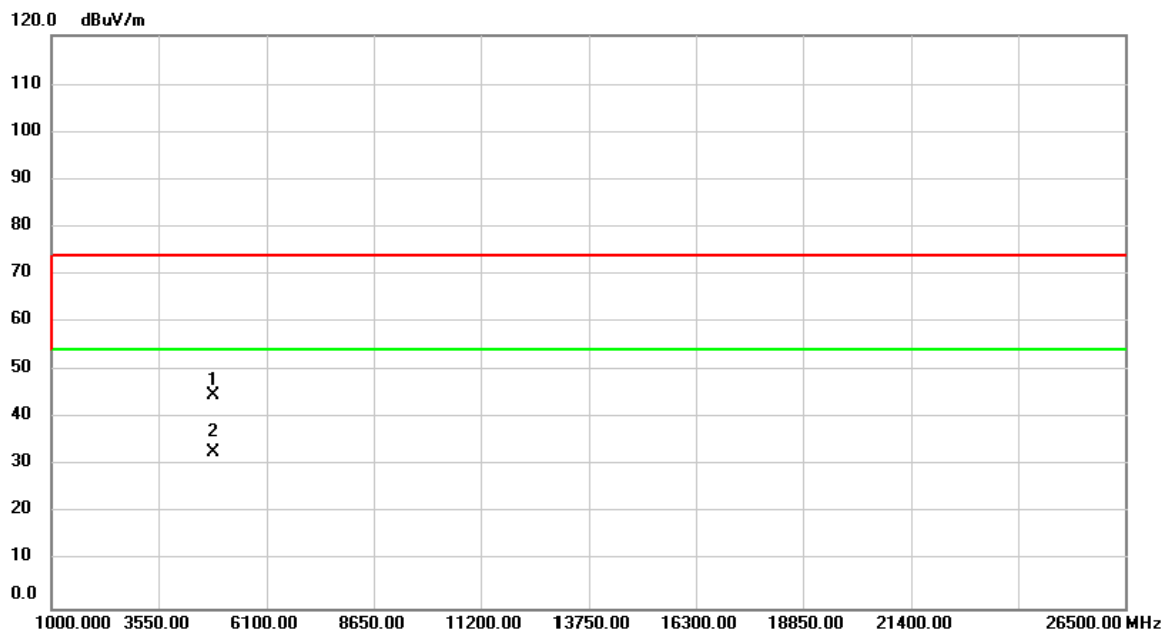
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	62.69	31.88	94.57	74.00	20.57	peak	No Limit
2	*	2437.000	58.56	31.88	90.44	54.00	36.44	AVG	No Limit

Test Mode:	TX B MODE 2437MHz
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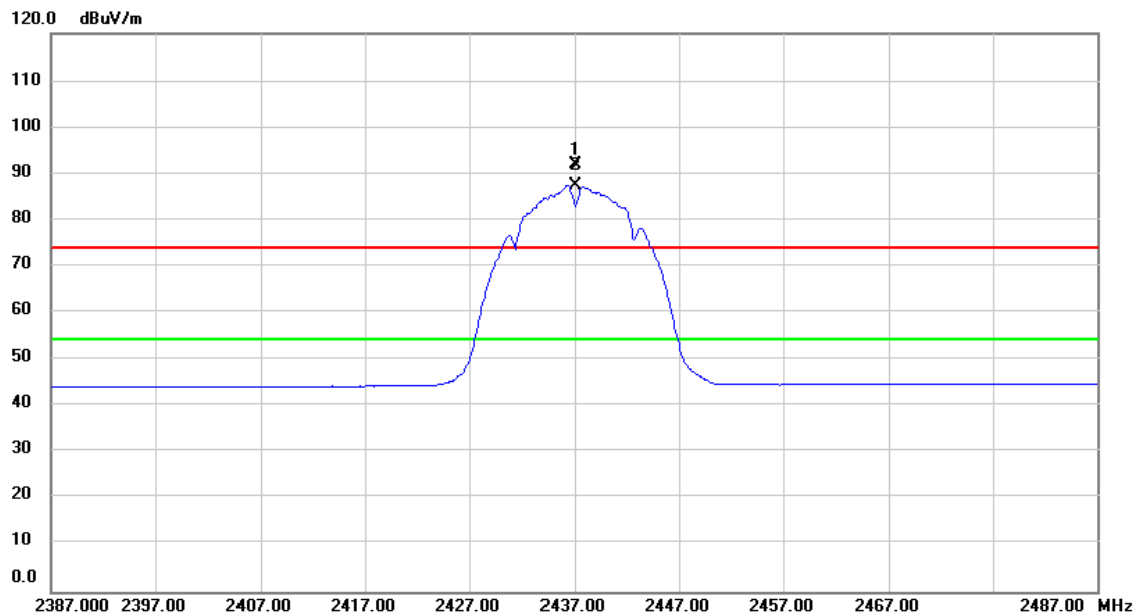
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	55.34	-10.40	44.94	74.00	-29.06	peak	
2	*	4874.000	43.16	-10.40	32.76	54.00	-21.24	AVG	

Test Mode: TX B MODE 2437MHz

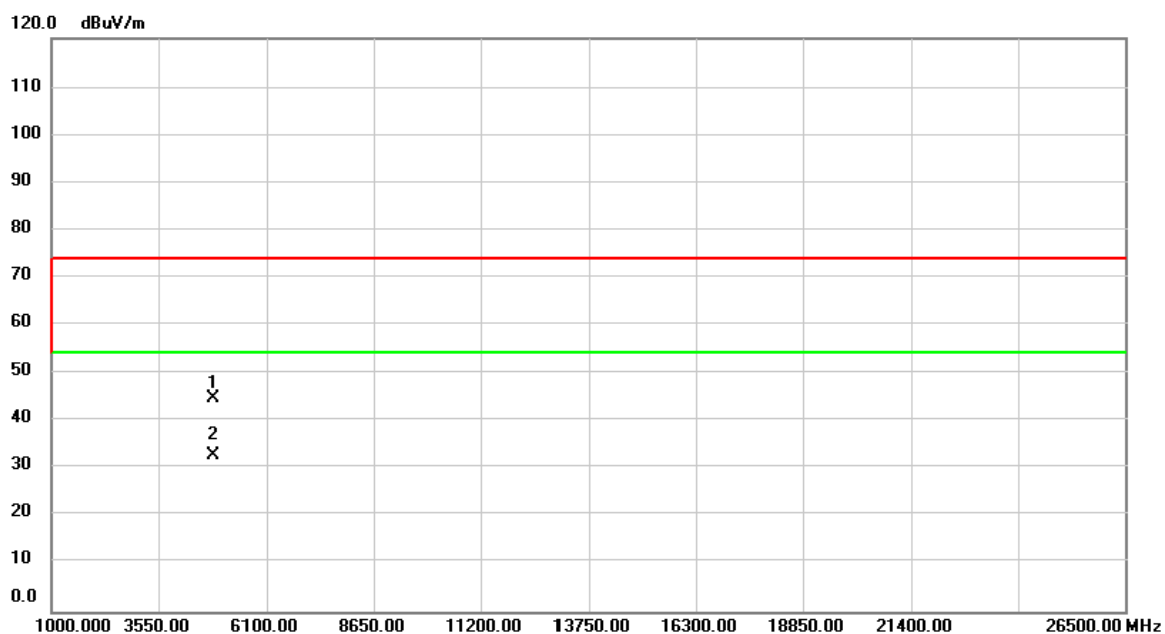
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	60.01	31.88	91.89	74.00	17.89	peak	No Limit
2	*	2437.000	55.51	31.88	87.39	54.00	33.39	AVG	No Limit

Test Mode:	TX B MODE 2437MHz
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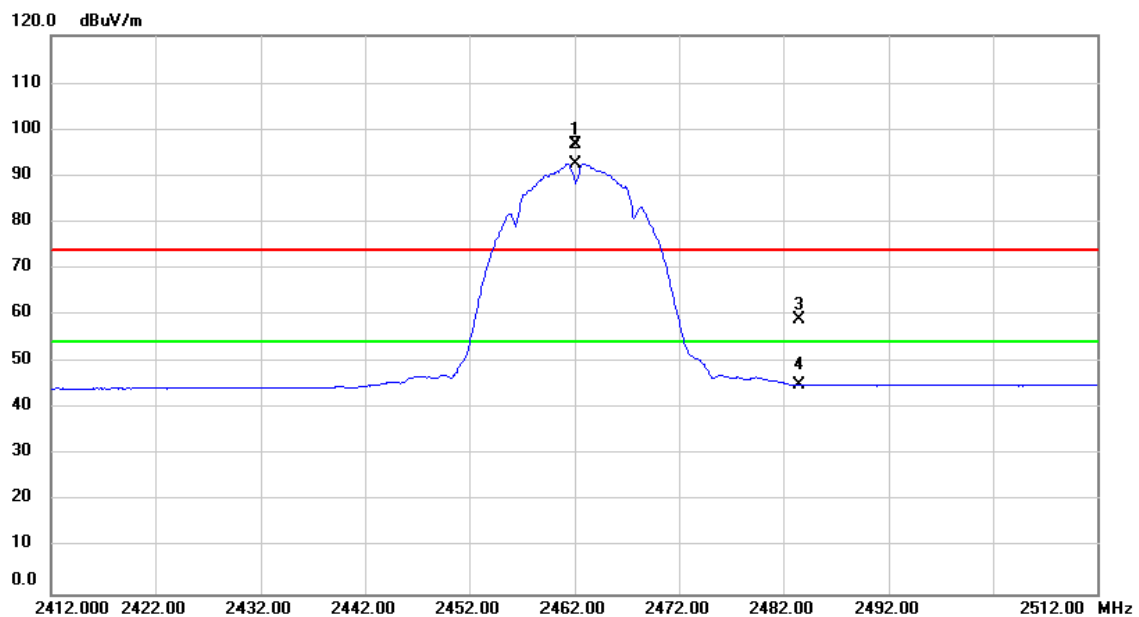
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	55.26	-10.40	44.86	74.00	-29.14	peak	
2	*	4874.000	43.12	-10.40	32.72	54.00	-21.28	AVG	

Test Mode: TX B MODE 2462MHz

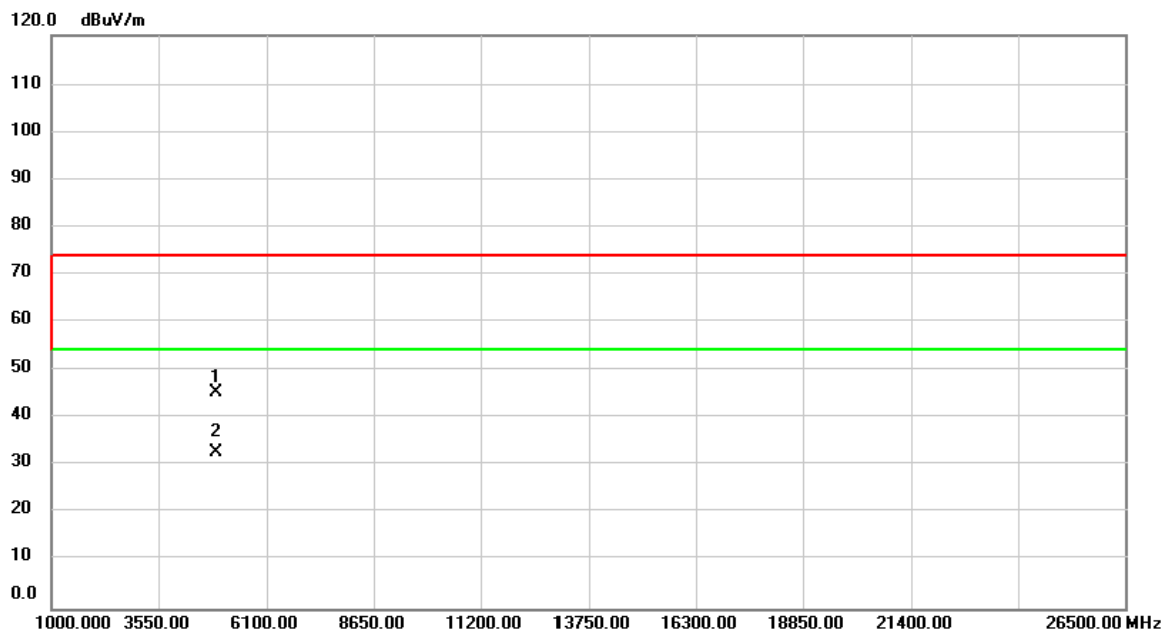
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	64.64	31.98	96.62	74.00	22.62	peak	No Limit
2	*	2462.000	60.72	31.98	92.70	54.00	38.70	AVG	No Limit
3		2483.500	26.78	32.06	58.84	74.00	-15.16	peak	
4		2483.500	13.11	32.06	45.17	54.00	-8.83	AVG	

Test Mode:	TX B MODE 2462MHz
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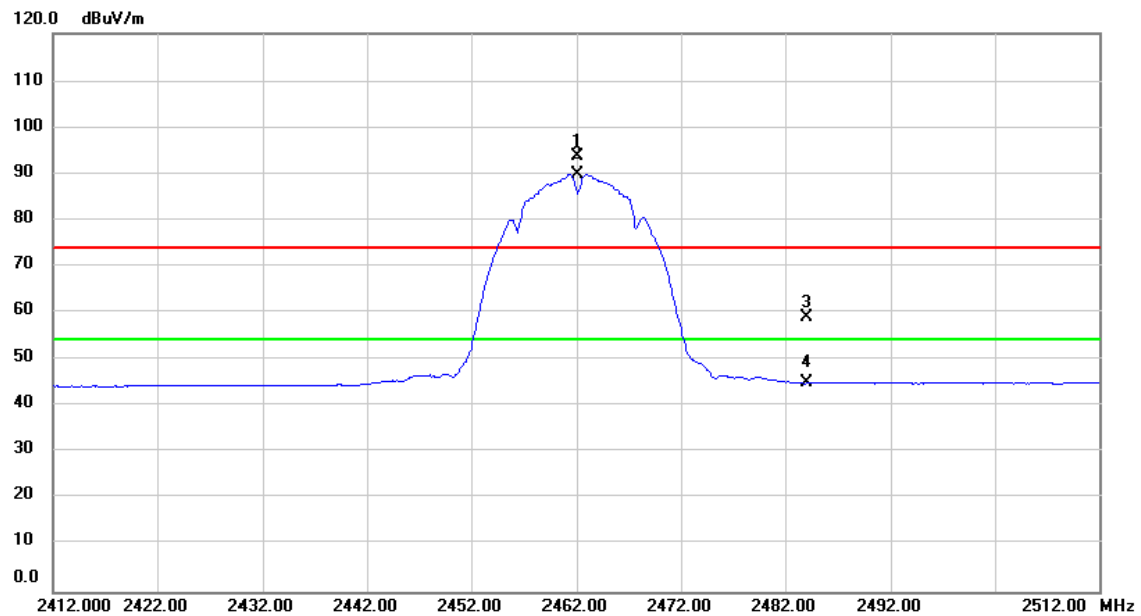
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	55.78	-10.32	45.46	74.00	-28.54	peak	
2	*	4924.000	43.31	-10.32	32.99	54.00	-21.01	AVG	

Test Mode: TX B MODE 2462MHz

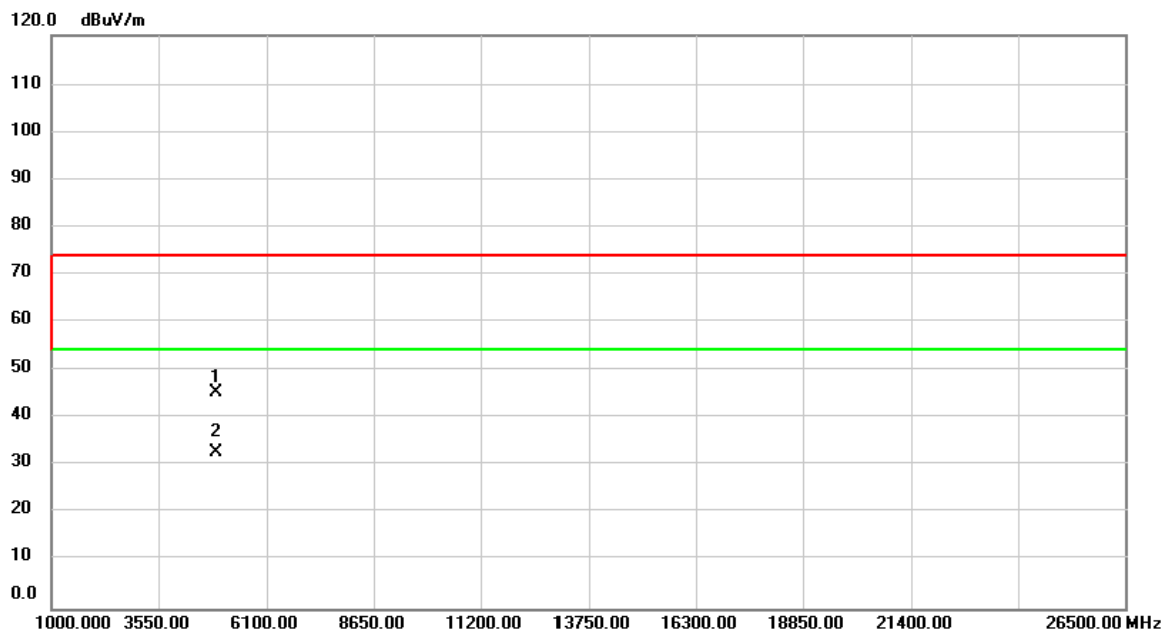
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	61.89	31.98	93.87	74.00	19.87	peak	No Limit
2	*	2462.000	58.02	31.98	90.00	54.00	36.00	AVG	No Limit
3		2484.000	26.75	32.07	58.82	74.00	-15.18	peak	
4		2484.000	12.95	32.07	45.02	54.00	-8.98	AVG	

Test Mode:	TX B MODE 2462MHz
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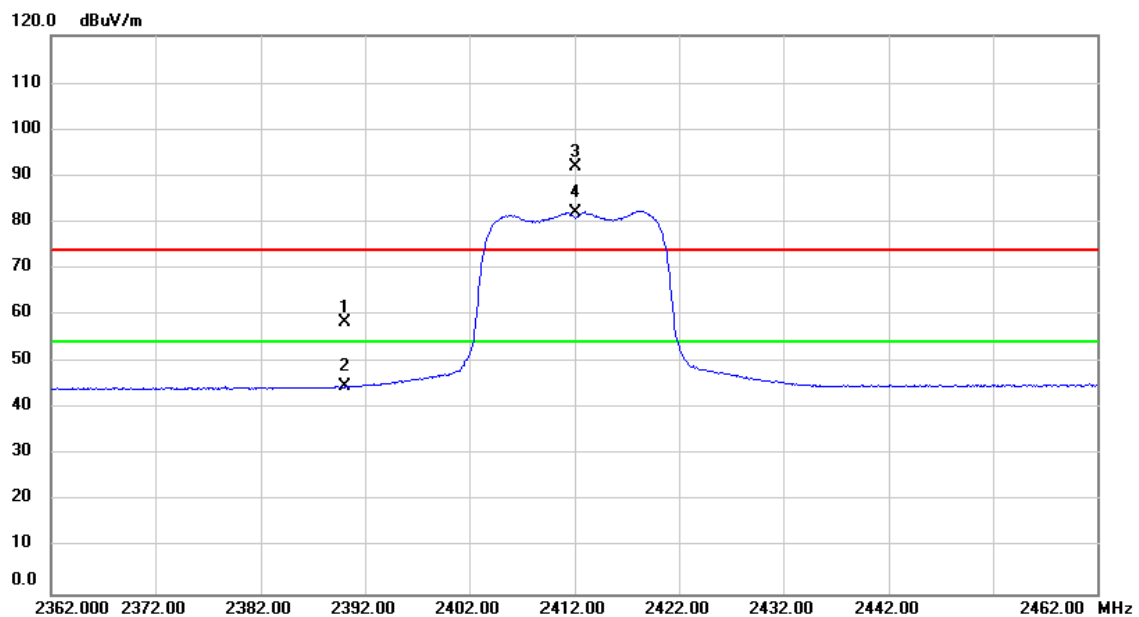
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	55.71	-10.32	45.39	74.00	-28.61	peak	
2	*	4924.000	43.31	-10.32	32.99	54.00	-21.01	AVG	

Test Mode: TX G MODE 2412MHz

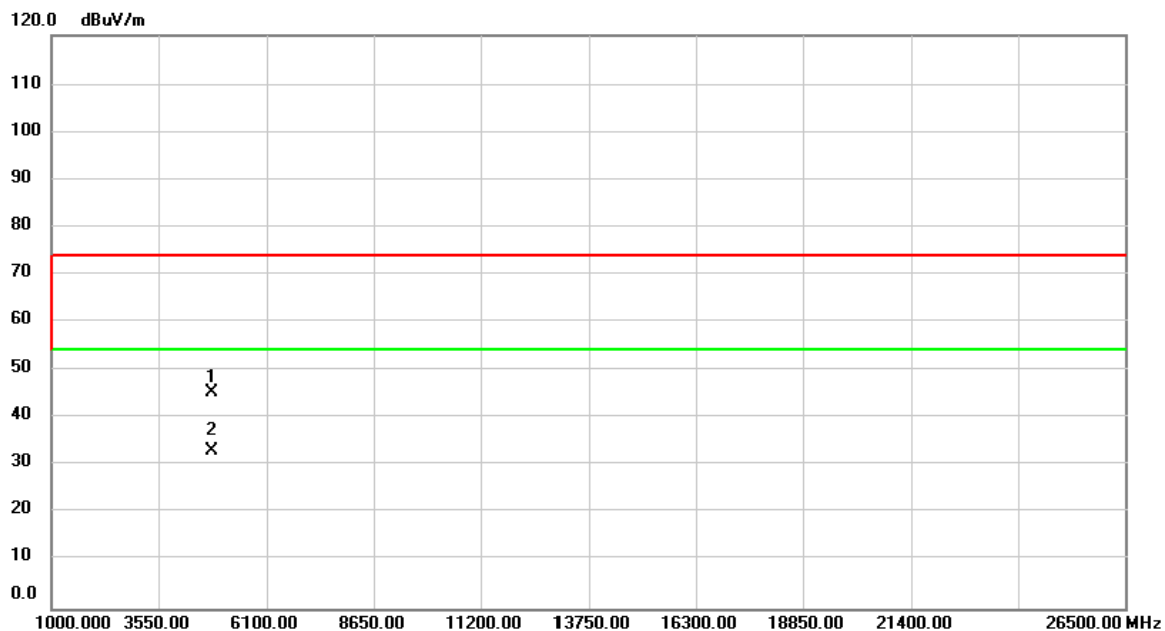
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	26.77	31.70	58.47	74.00	-15.53	peak	
2	2390.000	13.11	31.70	44.81	54.00	-9.19	AVG	
3 X	2412.000	60.27	31.79	92.06	74.00	18.06	peak	No Limit
4 *	2412.000	50.36	31.79	82.15	54.00	28.15	AVG	No Limit

Test Mode:	TX G MODE 2412MHz
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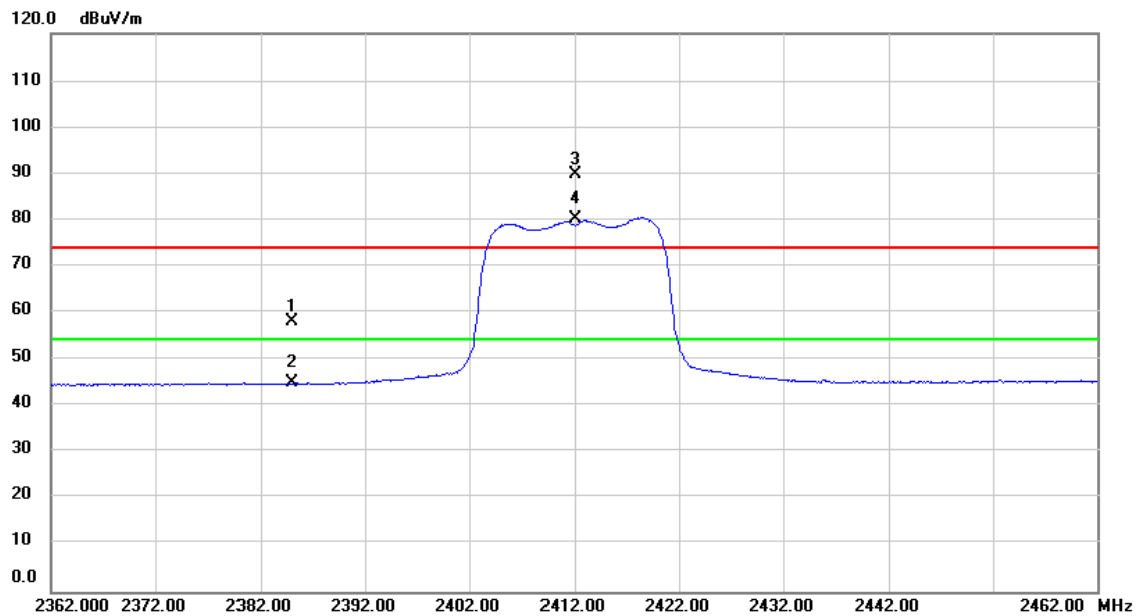
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	55.90	-10.48	45.42	74.00	-28.58	peak	
2	*	4824.000	43.53	-10.48	33.05	54.00	-20.95	AVG	

Test Mode: TX G MODE 2412MHz

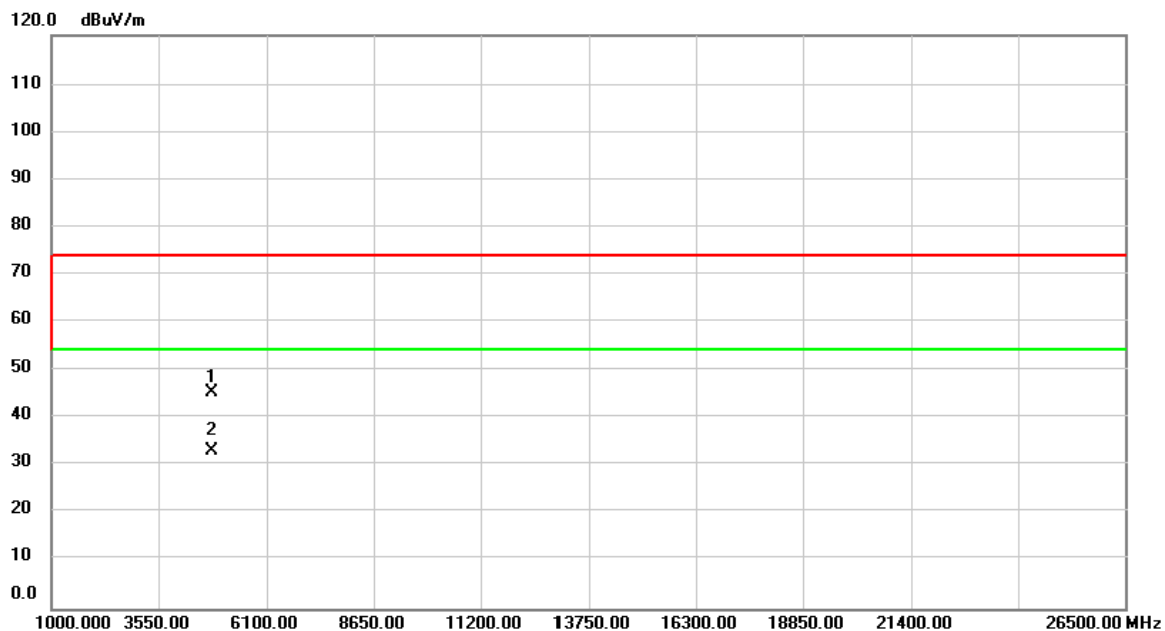
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2385.000	26.26	31.69	57.95	74.00	-16.05	peak	
2		2385.000	13.57	31.69	45.26	54.00	-8.74	AVG	
3	X	2412.000	58.06	31.79	89.85	74.00	15.85	peak	No Limit
4	*	2412.000	48.47	31.79	80.26	54.00	26.26	AVG	No Limit

Test Mode:	TX G MODE 2412MHz
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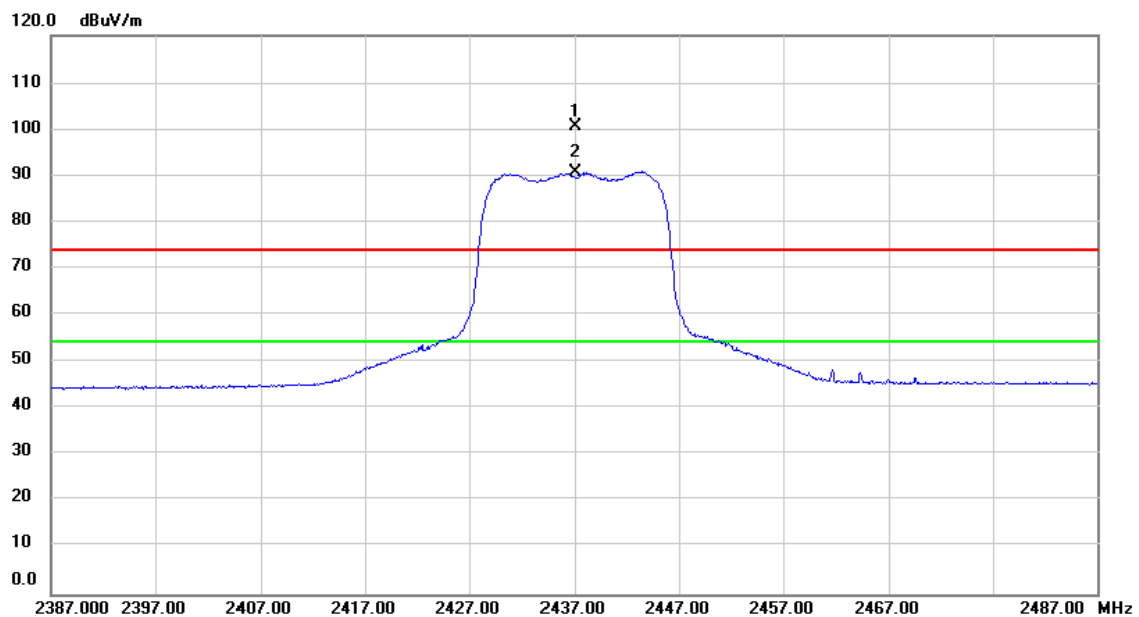
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	55.84	-10.48	45.36	74.00	-28.64	peak	
2	*	4824.000	43.51	-10.48	33.03	54.00	-20.97	AVG	

Test Mode: TX G MODE 2437MHz

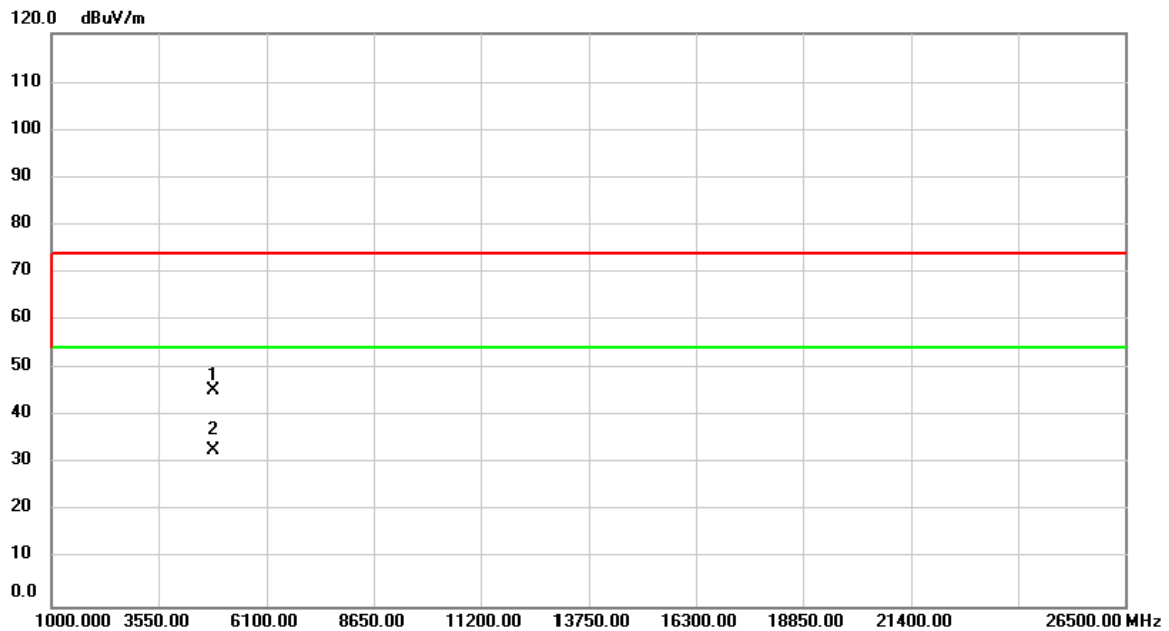
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	68.84	31.88	100.72	74.00	26.72	peak	No Limit
2	*	2437.000	58.94	31.88	90.82	54.00	36.82	AVG	No Limit

Test Mode:	TX G MODE 2437MHz
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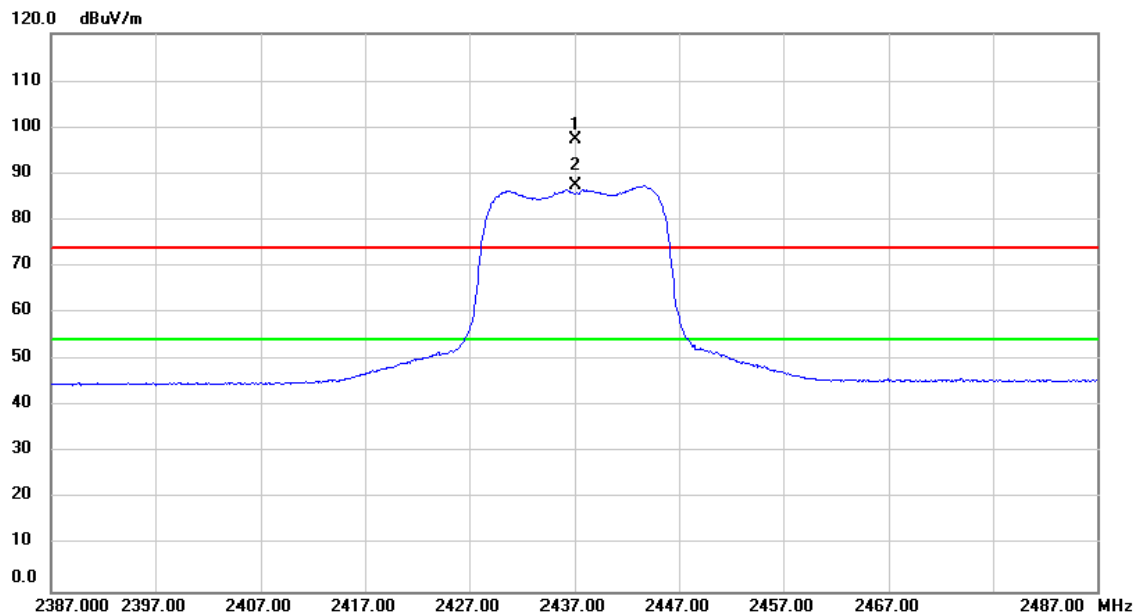
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	55.87	-10.40	45.47	74.00	-28.53	peak	
2	*	4874.000	43.25	-10.40	32.85	54.00	-21.15	AVG	

Test Mode: TX G MODE 2437MHz

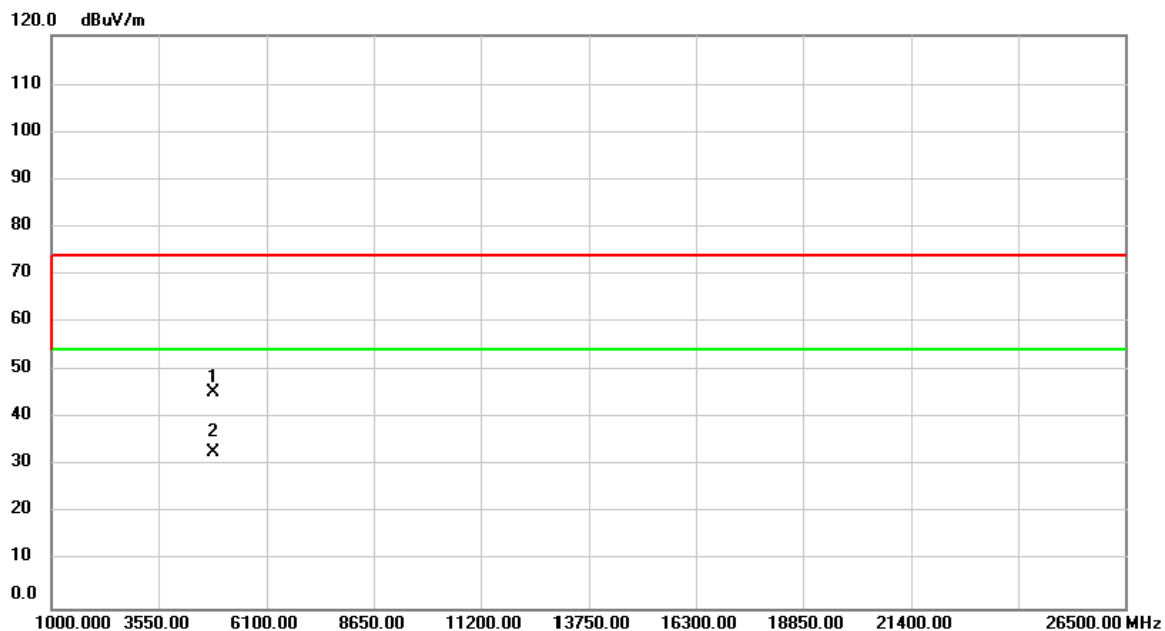
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	65.44	31.88	97.32	74.00	23.32	peak	No Limit
2	*	2437.000	55.51	31.88	87.39	54.00	33.39	AVG	No Limit

Test Mode:	TX G MODE 2437MHz
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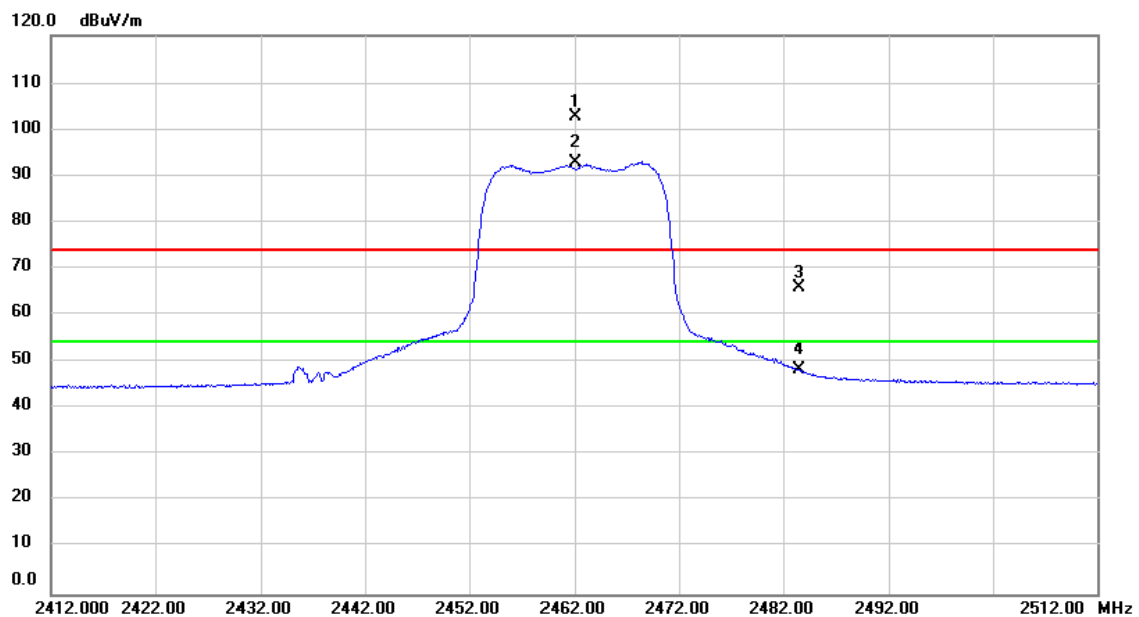
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	55.81	-10.40	45.41	74.00	-28.59	peak	
2	*	4874.000	43.21	-10.40	32.81	54.00	-21.19	AVG	

Test Mode: TX G MODE 2462MHz

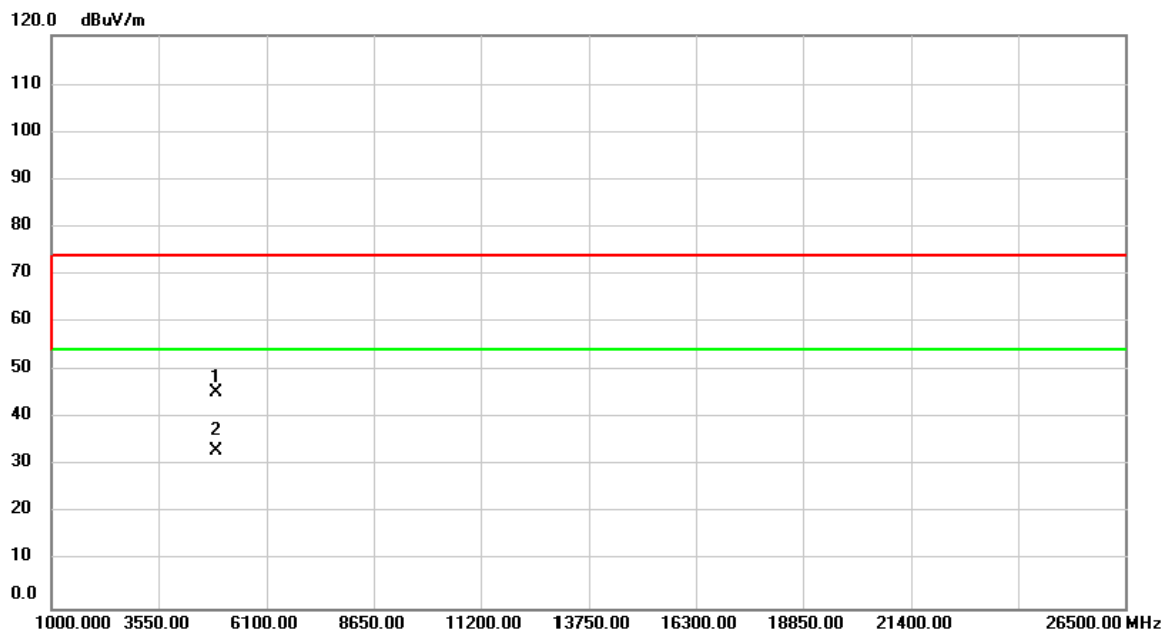
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	70.72	31.98	102.70	74.00	28.70	peak	No Limit
2	*	2462.000	60.89	31.98	92.87	54.00	38.87	AVG	No Limit
3		2483.500	33.70	32.06	65.76	74.00	-8.24	peak	
4		2483.500	16.28	32.06	48.34	54.00	-5.66	AVG	

Test Mode:	TX G MODE 2462MHz
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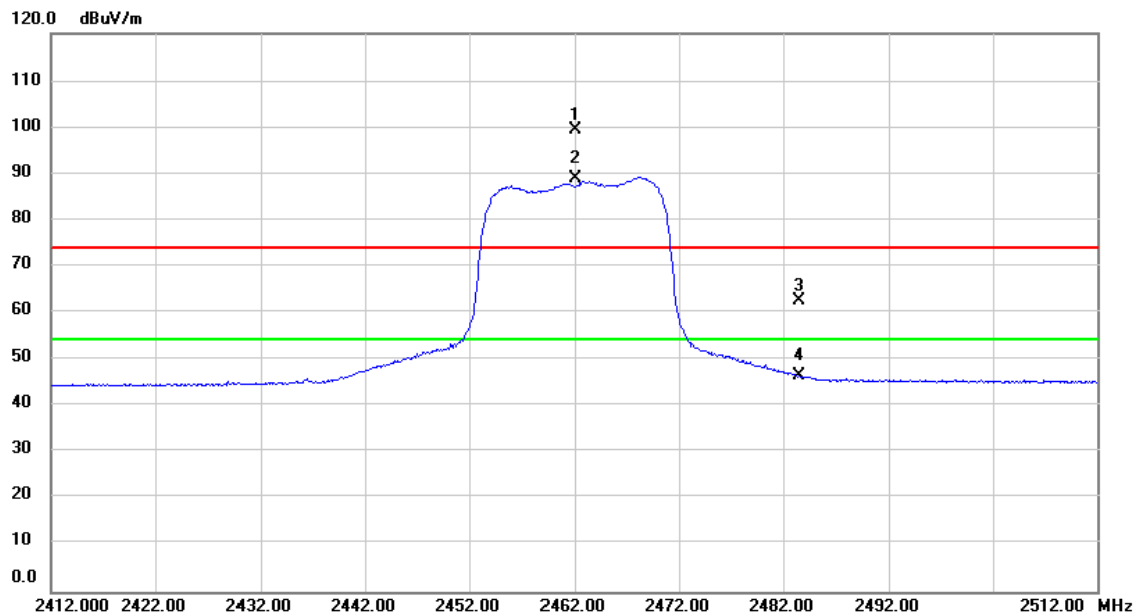
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	55.83	-10.32	45.51	74.00	-28.49	peak	
2	*	4924.000	43.39	-10.32	33.07	54.00	-20.93	AVG	

Test Mode: TX G MODE 2462MHz

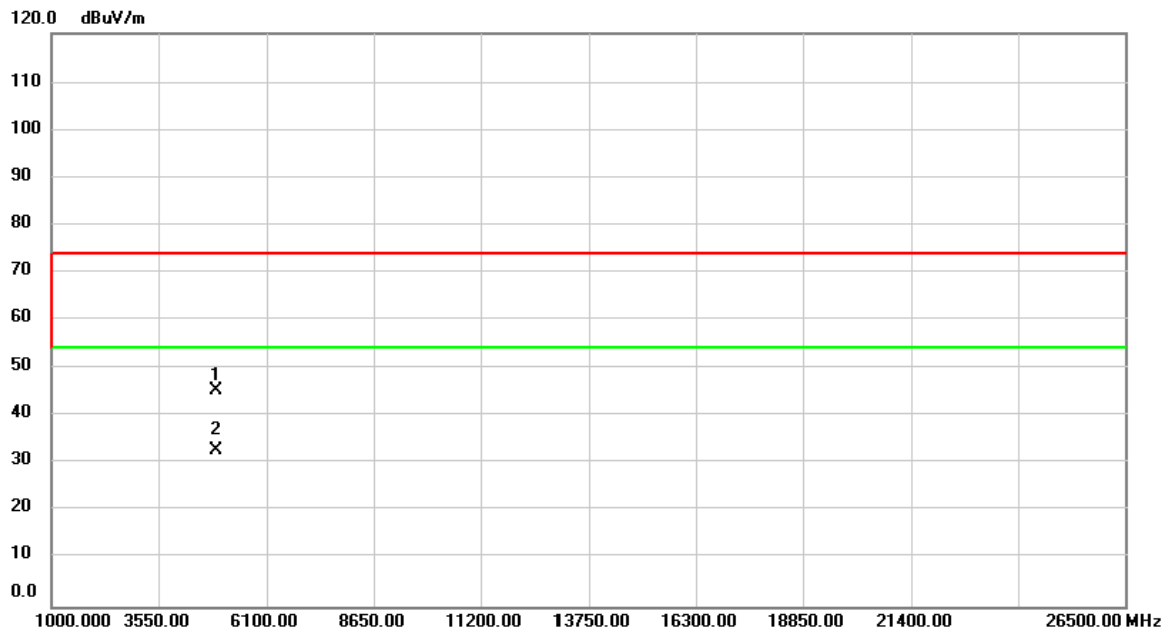
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	67.40	31.98	99.38	74.00	25.38	peak	No Limit
2	*	2462.000	57.09	31.98	89.07	54.00	35.07	AVG	No Limit
3		2483.500	30.56	32.06	62.62	74.00	-11.38	peak	
4		2483.500	14.56	32.06	46.62	54.00	-7.38	AVG	

Test Mode:	TX G MODE 2462MHz
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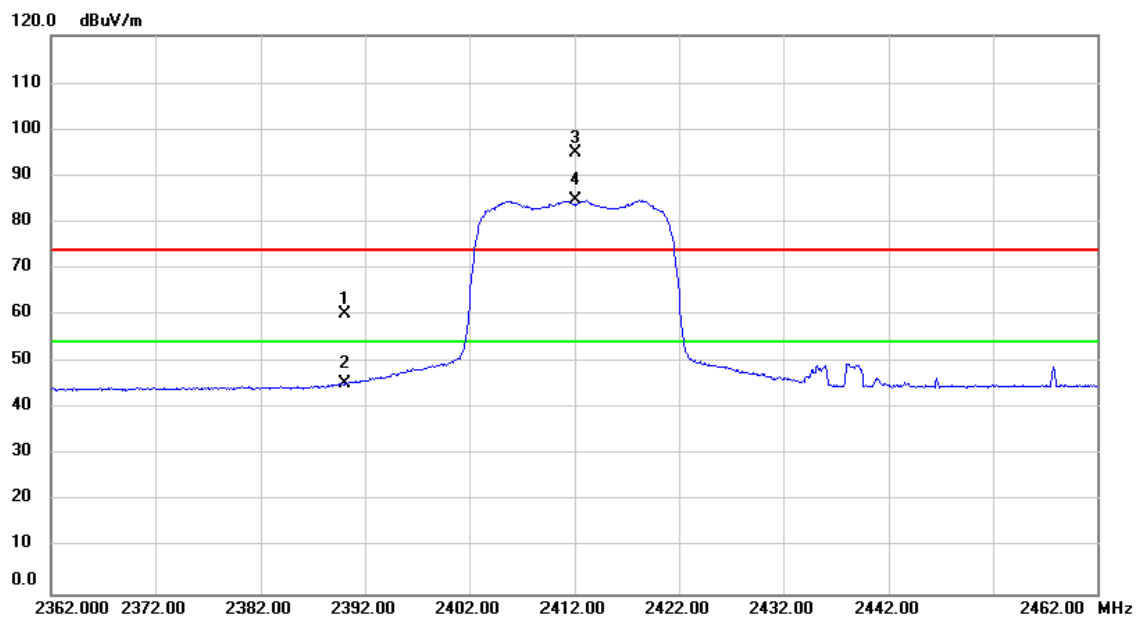
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	55.78	-10.32	45.46	74.00	-28.54	peak	
2	*	4924.000	43.31	-10.32	32.99	54.00	-21.01	AVG	

Test Mode: TX N-20M MODE 2412MHz

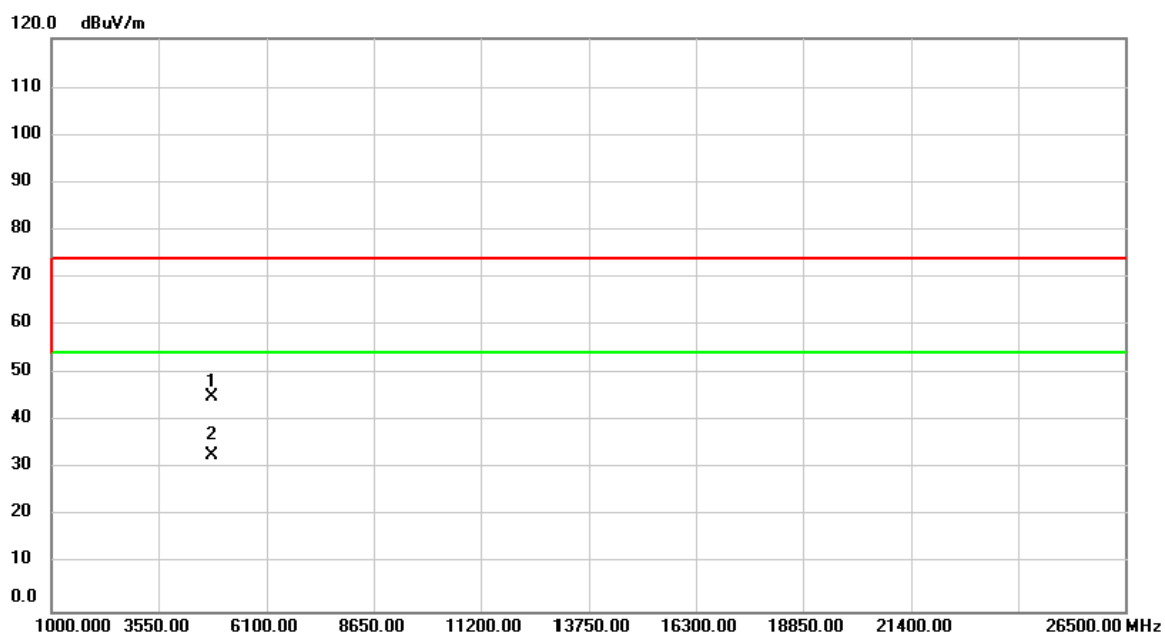
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	28.53	31.70	60.23	74.00	-13.77	peak	
2	2390.000	13.74	31.70	45.44	54.00	-8.56	AVG	
3 X	2412.000	63.04	31.79	94.83	74.00	20.83	peak	No Limit
4 *	2412.000	52.95	31.79	84.74	54.00	30.74	AVG	No Limit

Test Mode:	TX N-20M MODE 2412MHz
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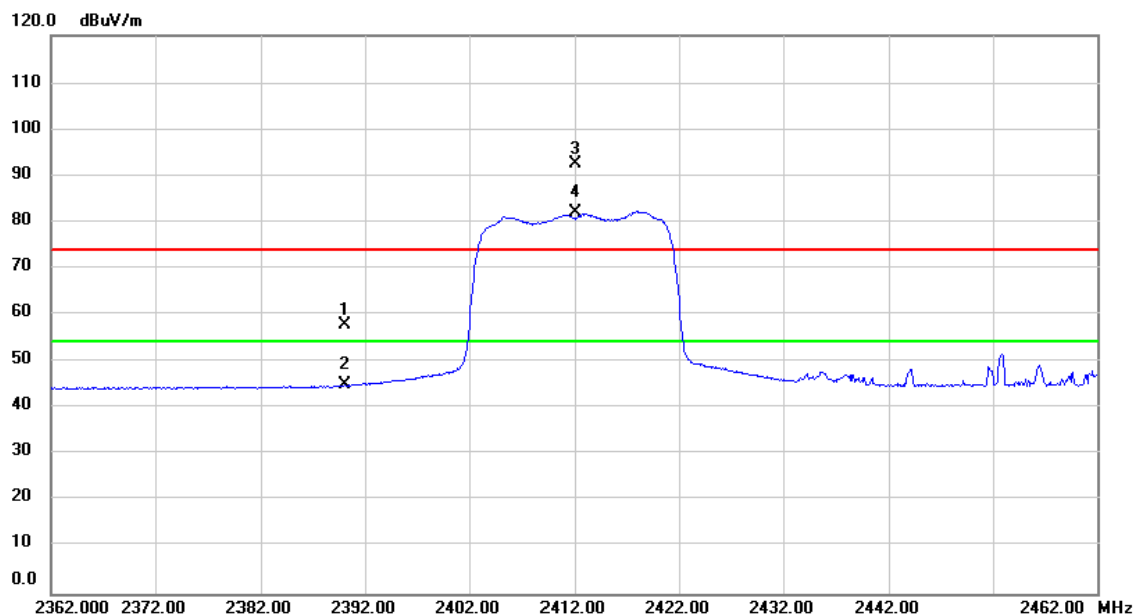
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	55.69	-10.48	45.21	74.00	-28.79	peak	
2	*	4824.000	43.47	-10.48	32.99	54.00	-21.01	AVG	

Test Mode:	TX N-20M MODE 2412MHz
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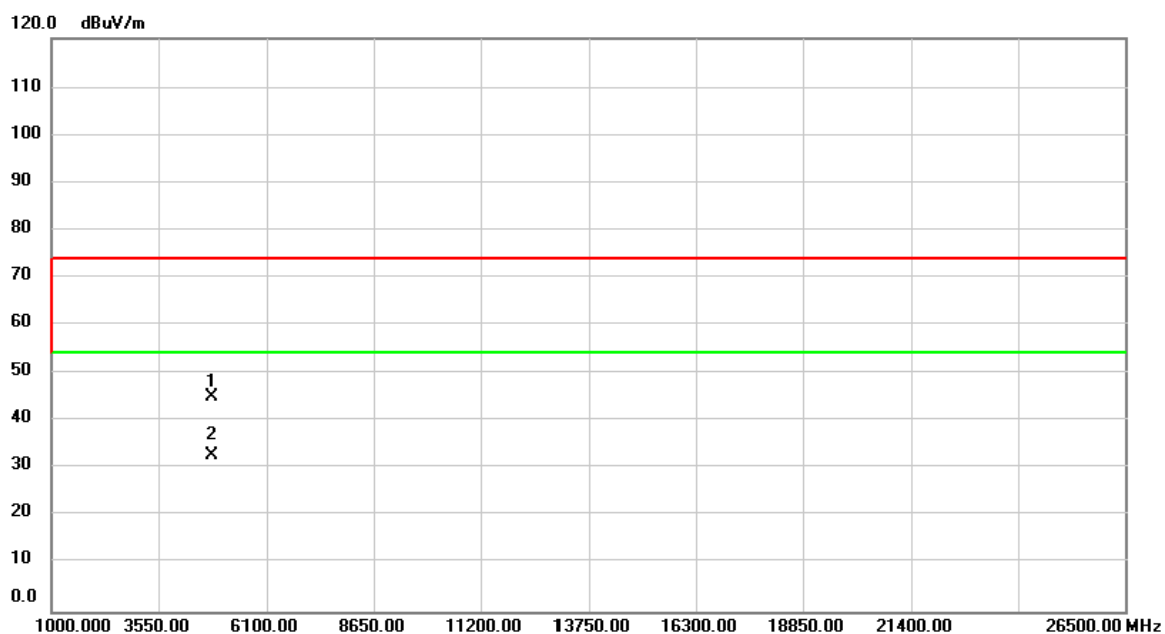
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	26.16	31.70	57.86	74.00	-16.14	peak	
2		2390.000	13.31	31.70	45.01	54.00	-8.99	AVG	
3	X	2412.000	60.66	31.79	92.45	74.00	18.45	peak	No Limit
4	*	2412.000	50.16	31.79	81.95	54.00	27.95	AVG	No Limit

Test Mode:	TX N-20M MODE 2412MHz
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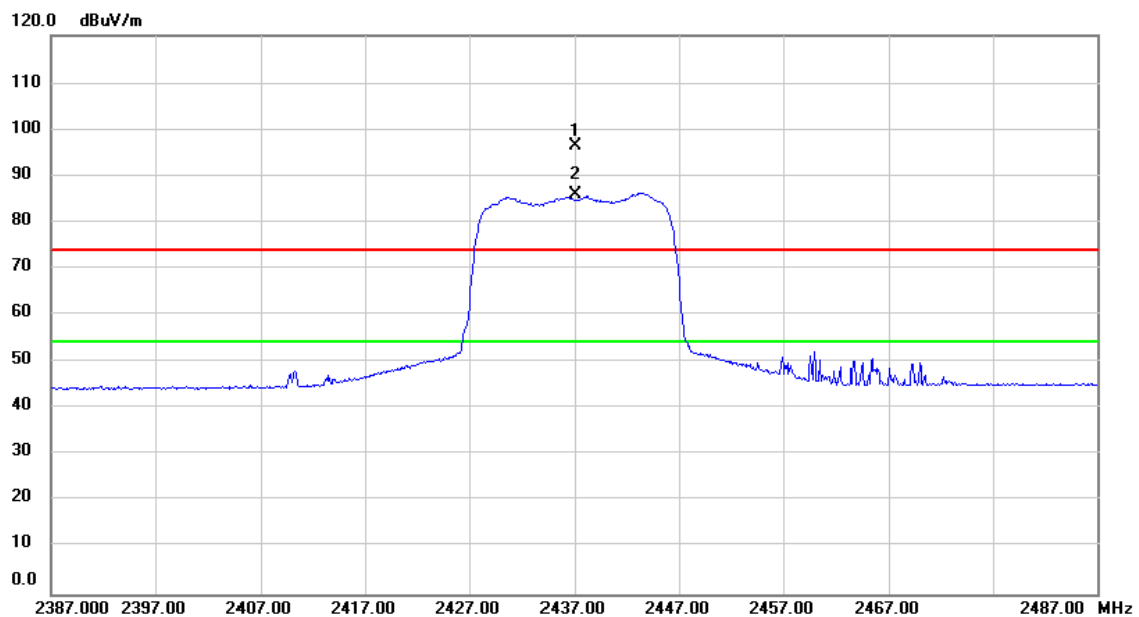
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	55.65	-10.48	45.17	74.00	-28.83	peak	
2	*	4824.000	43.43	-10.48	32.95	54.00	-21.05	AVG	

Test Mode: TX N-20M MODE 2437MHz

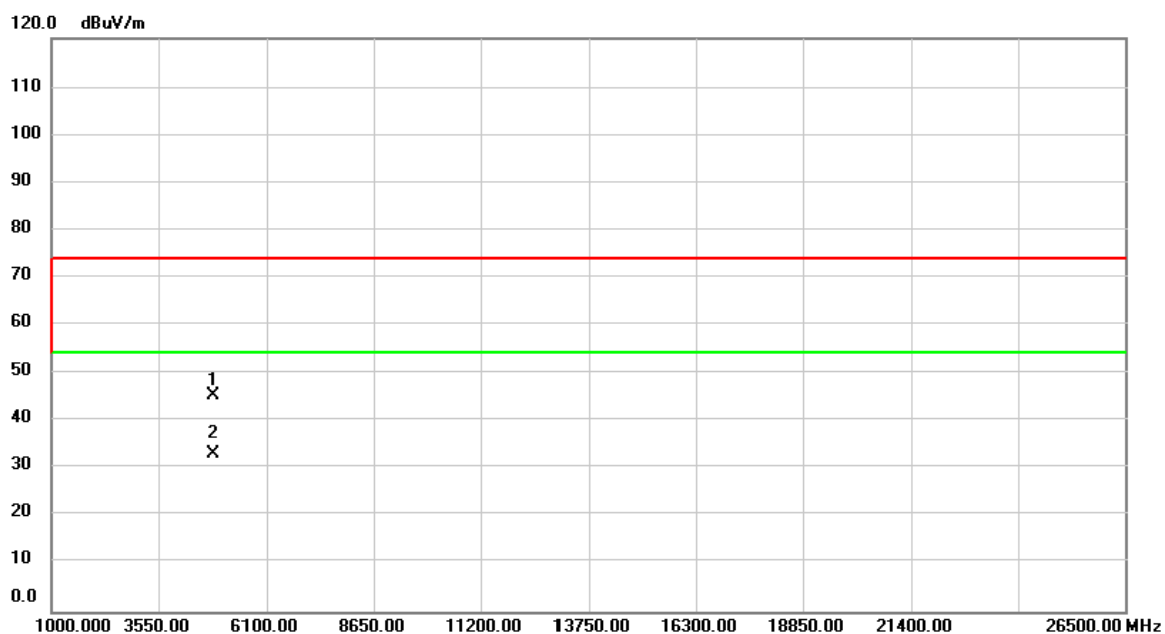
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	64.65	31.88	96.53	74.00	22.53	peak	No Limit
2	*	2437.000	54.20	31.88	86.08	54.00	32.08	AVG	No Limit

Test Mode:	TX N-20M MODE 2437MHz
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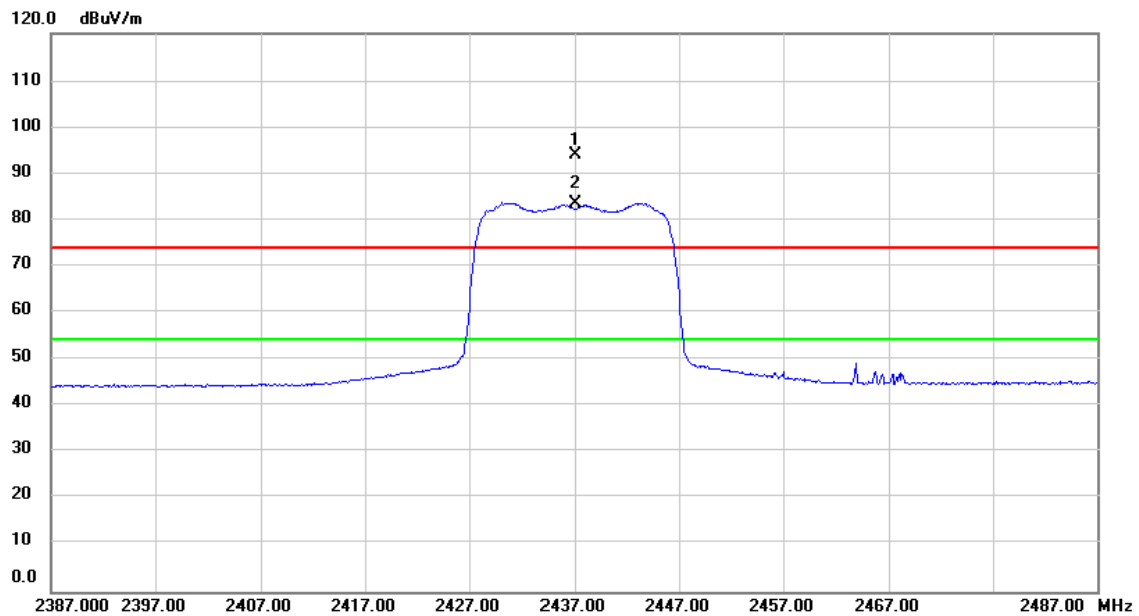
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	55.78	-10.40	45.38	74.00	-28.62	peak	
2	*	4874.000	43.49	-10.40	33.09	54.00	-20.91	AVG	

Test Mode: TX N-20M MODE 2437MHz

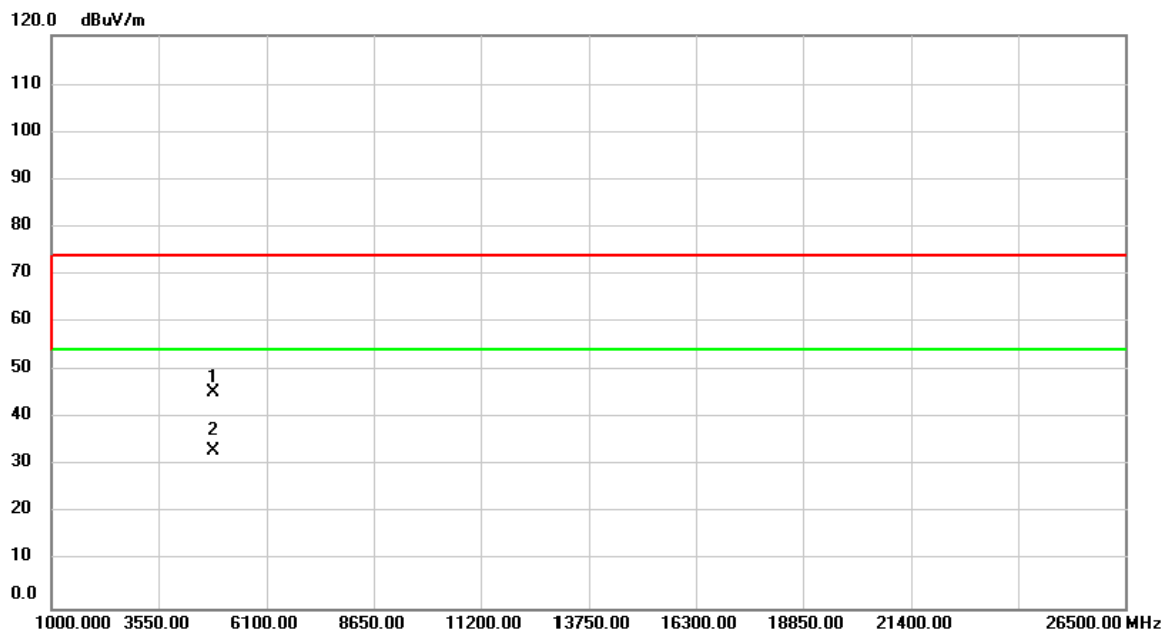
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	62.19	31.88	94.07	74.00	20.07	peak	No Limit
2	*	2437.000	51.77	31.88	83.65	54.00	29.65	AVG	No Limit

Test Mode:	TX N-20M MODE 2437MHz
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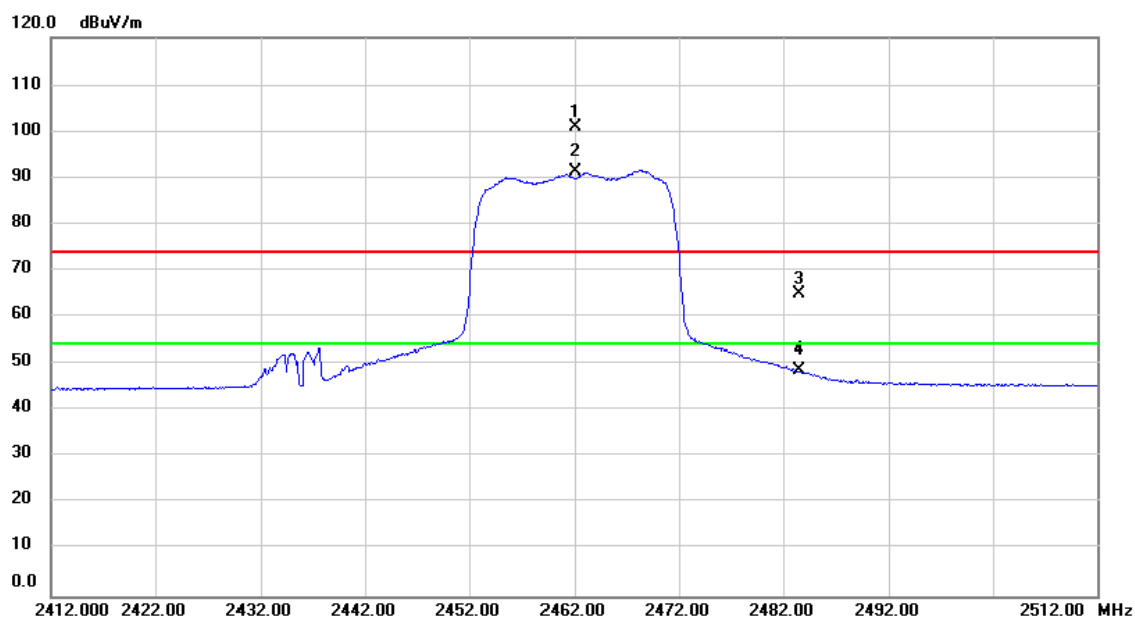
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	55.71	-10.40	45.31	74.00	-28.69	peak	
2	*	4874.000	43.41	-10.40	33.01	54.00	-20.99	AVG	

Test Mode:	TX N-20M MODE 2462MHz
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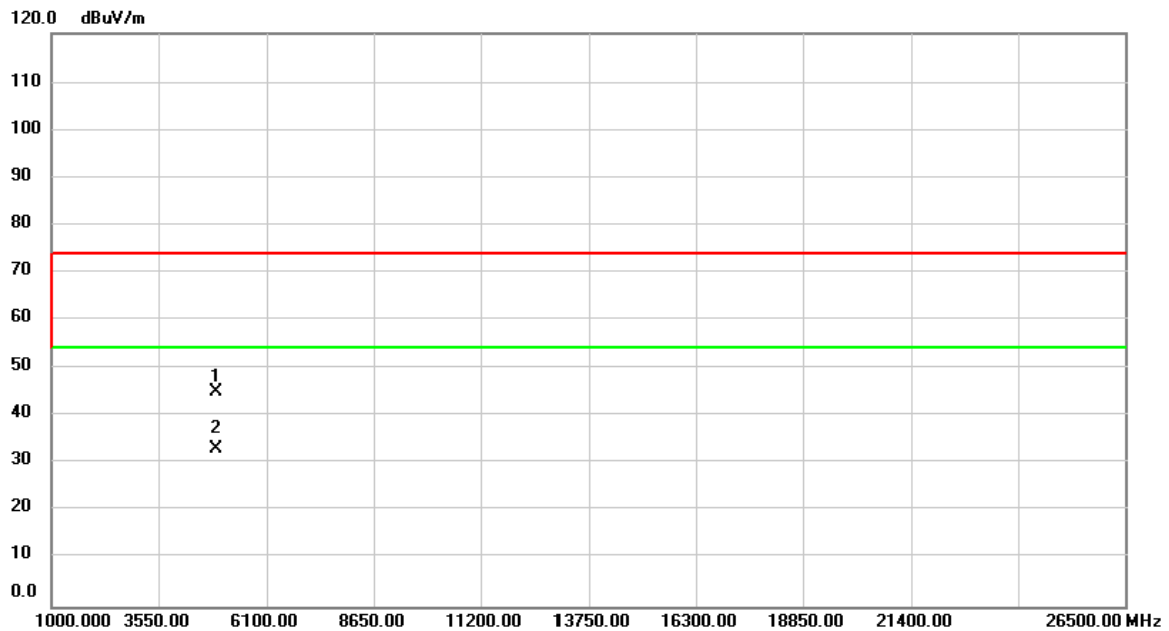
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	69.10	31.98	101.08	74.00	27.08	peak	No Limit
2	*	2462.000	59.33	31.98	91.31	54.00	37.31	AVG	No Limit
3		2483.500	32.77	32.06	64.83	74.00	-9.17	peak	
4		2483.500	16.60	32.06	48.66	54.00	-5.34	AVG	

Test Mode:	TX N-20M MODE 2462MHz
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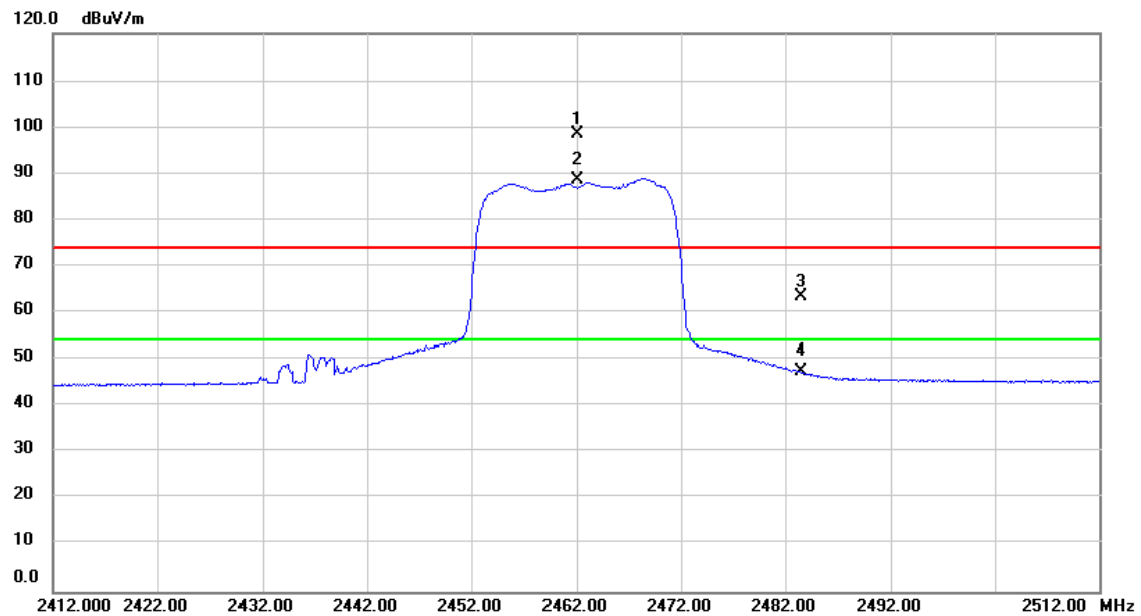
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	55.45	-10.32	45.13	74.00	-28.87	peak	
2	*	4924.000	43.49	-10.32	33.17	54.00	-20.83	AVG	

Test Mode:	TX N-20M MODE 2462MHz
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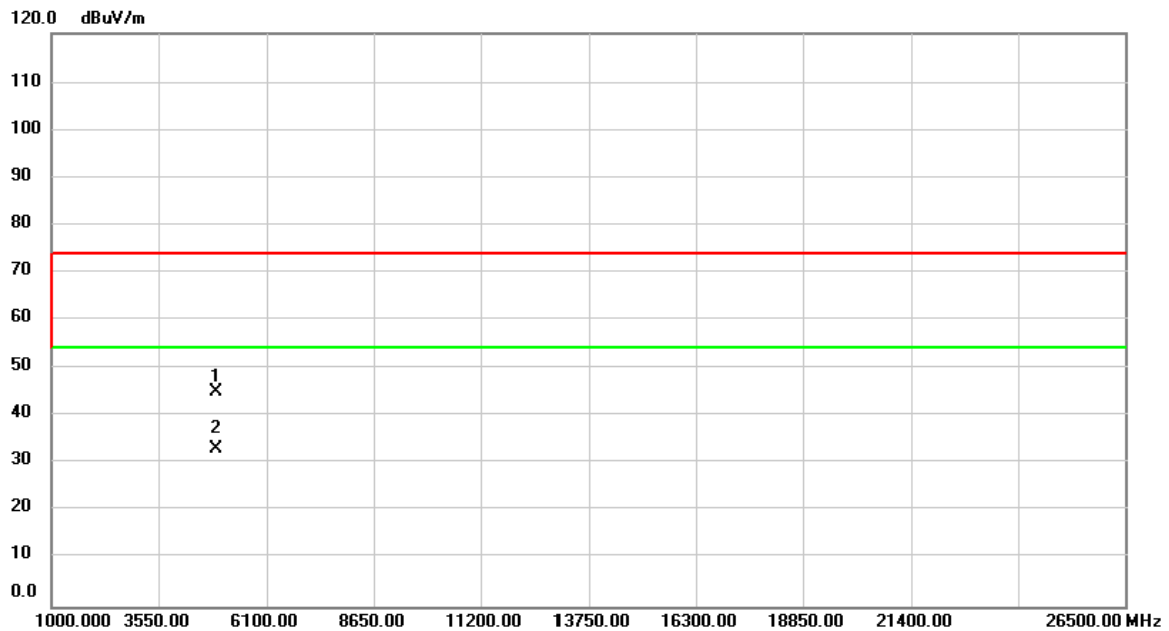
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	66.64	31.98	98.62	74.00	24.62	peak	No Limit
2	*	2462.000	56.76	31.98	88.74	54.00	34.74	AVG	No Limit
3		2483.500	31.53	32.06	63.59	74.00	-10.41	peak	
4		2483.500	15.38	32.06	47.44	54.00	-6.56	AVG	

Test Mode:	TX N-20M MODE 2462MHz
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Horizontal



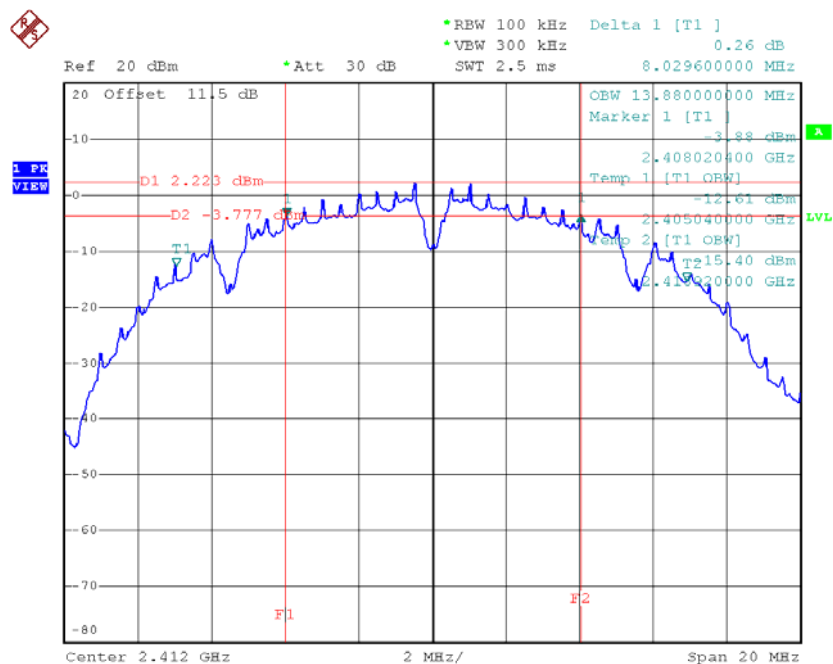
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	55.39	-10.32	45.07	74.00	-28.93	peak	
2	*	4924.000	43.47	-10.32	33.15	54.00	-20.85	AVG	

ATTACHMENT E - BANDWIDTH

Test Mode: TX B Mode_CH01/06/11

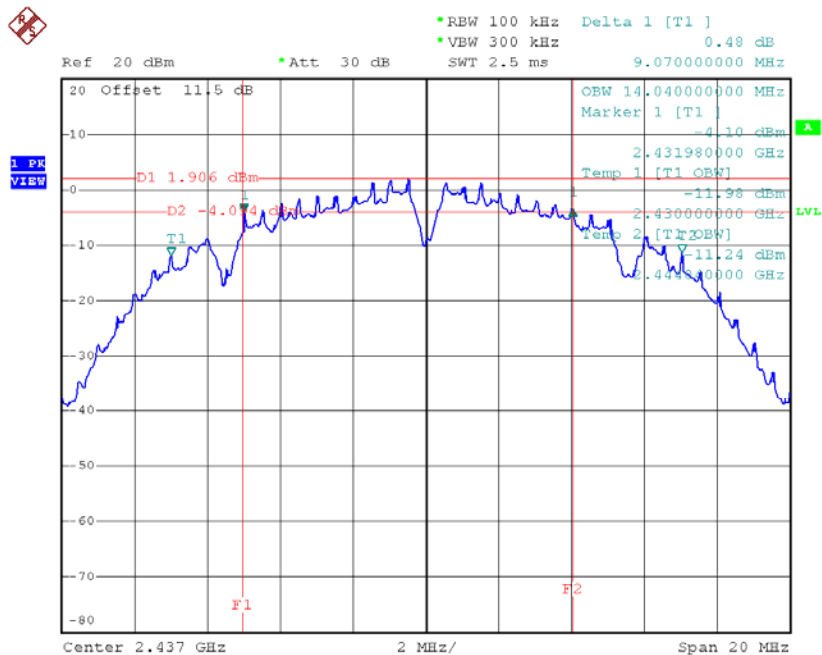
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.03	13.88	500	Complies
2437	9.07	14.04	500	Complies
2462	9.51	14.12	500	Complies

TX CH01



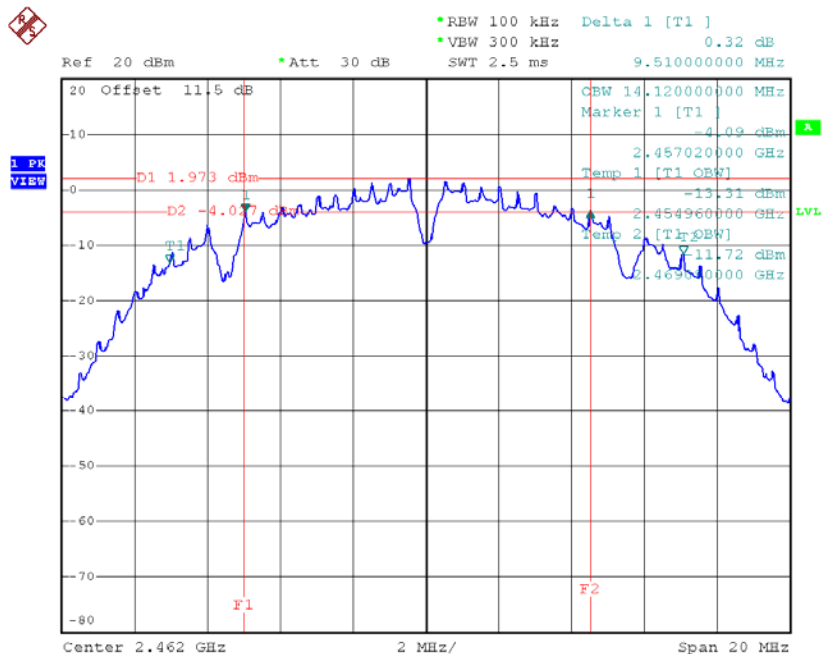
Date: 29.MAR.2016 11:49:47

TX CH06



Date: 29.MAR.2016 11:52:53

TX CH11

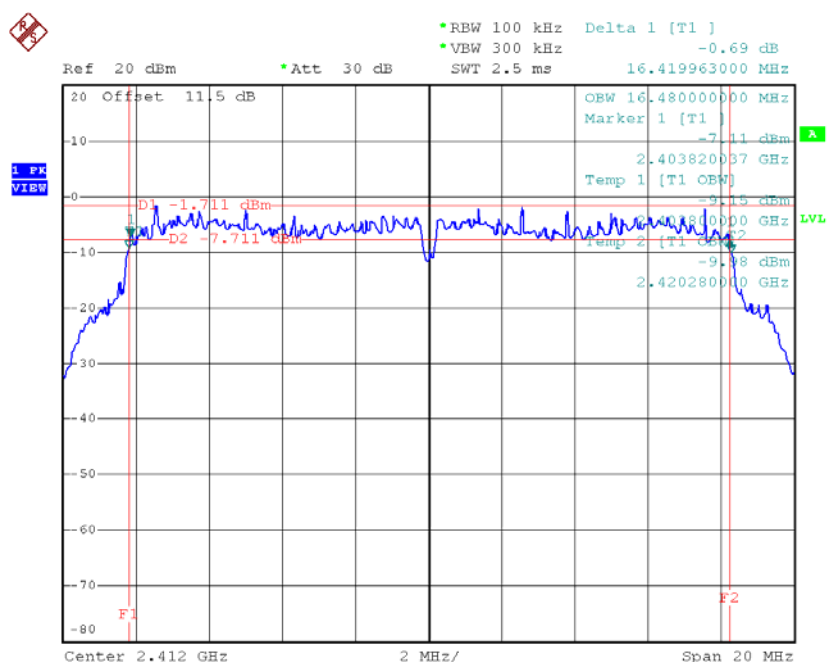


Date: 29.MAR.2016 11:54:46

Test Mode: TX G Mode_CH01/06/11

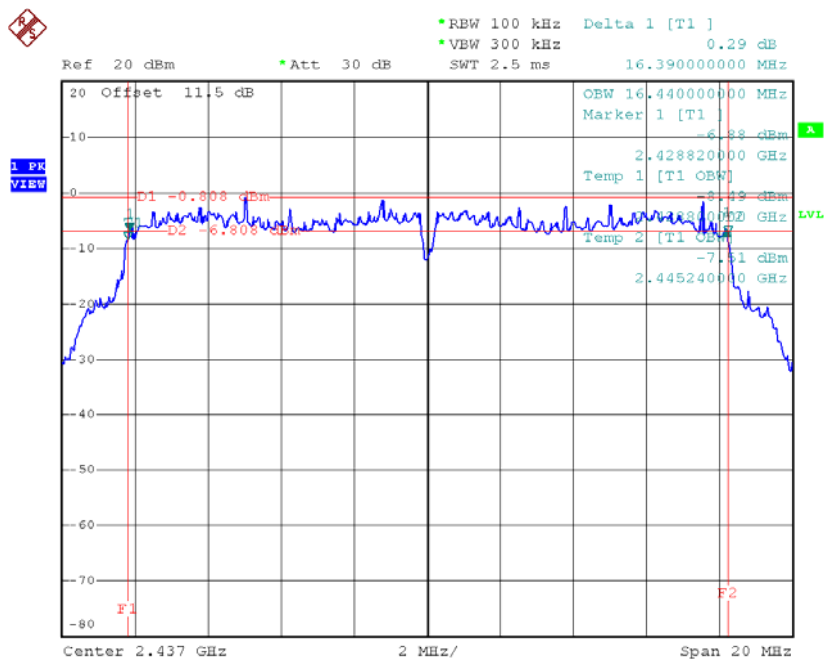
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.42	16.48	500	Complies
2437	16.39	16.44	500	Complies
2462	15.80	16.44	500	Complies

TX CH01



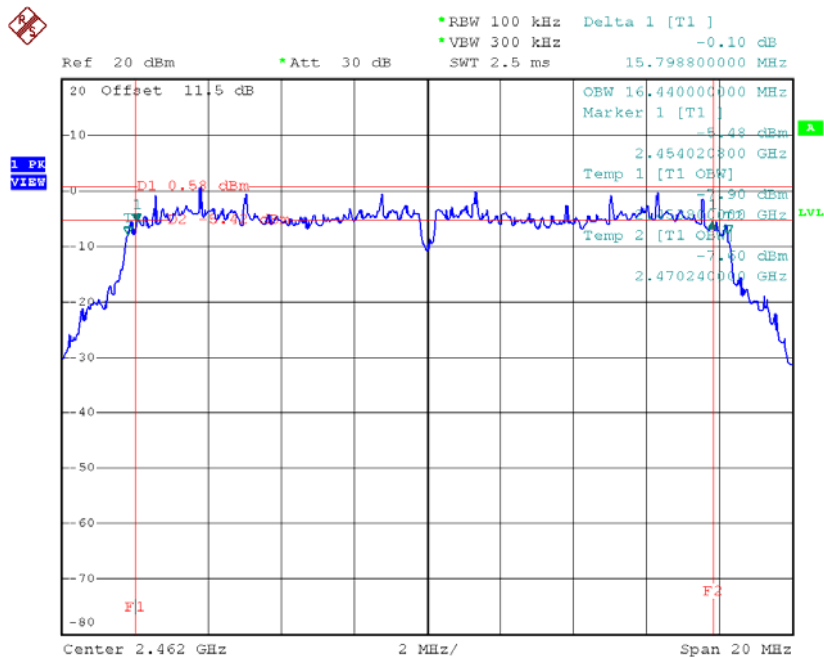
Date: 29.MAR.2016 12:03:44

TX CH06



Date: 29.MAR.2016 12:05:00

TX CH11

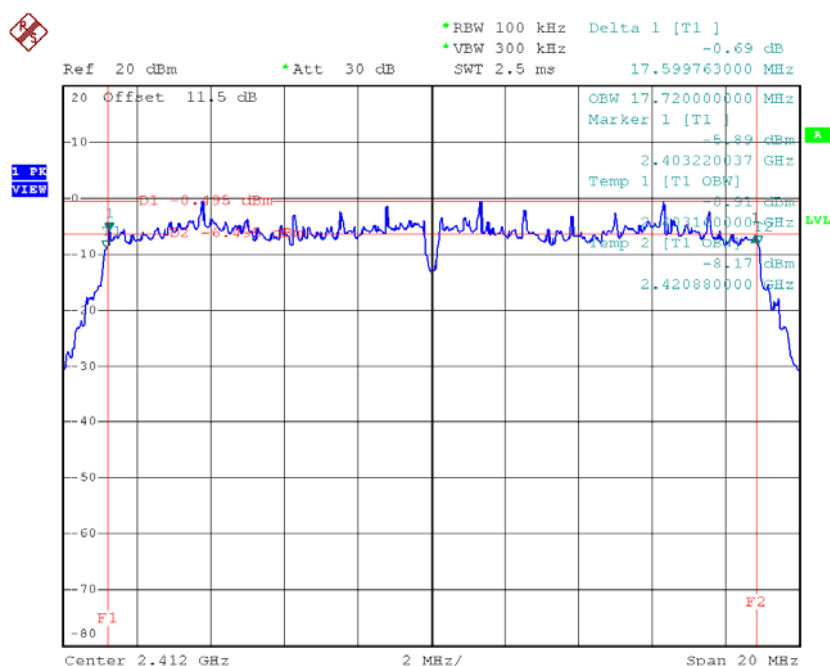


Date: 29.MAR.2016 12:05:58

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

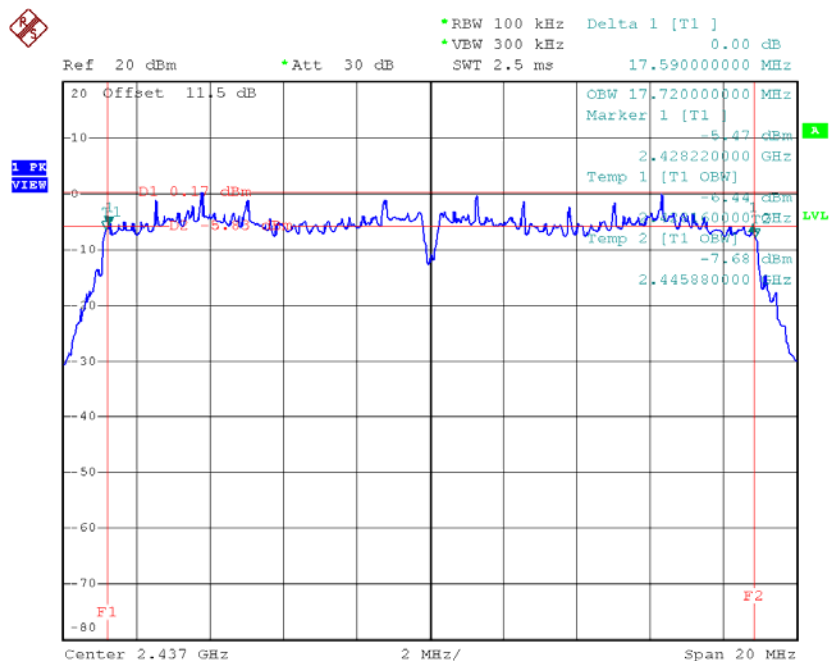
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.60	17.72	500	Complies
2437	17.59	17.72	500	Complies
2462	17.62	17.72	500	Complies

TX CH01



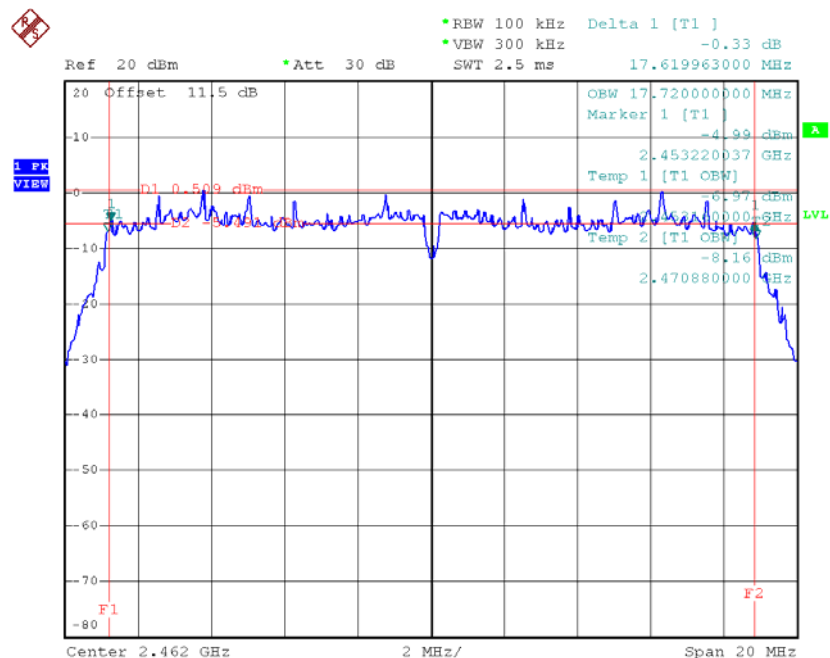
Date: 29.MAR.2016 12:10:36

TX CH06



Date: 29.MAR.2016 12:17:31

TX CH11



Date: 29.MAR.2016 12:18:38

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode: TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	12.28	0.0169	30.00	1.00	Complies
2437	12.65	0.0184	30.00	1.00	Complies
2462	12.81	0.0191	30.00	1.00	Complies

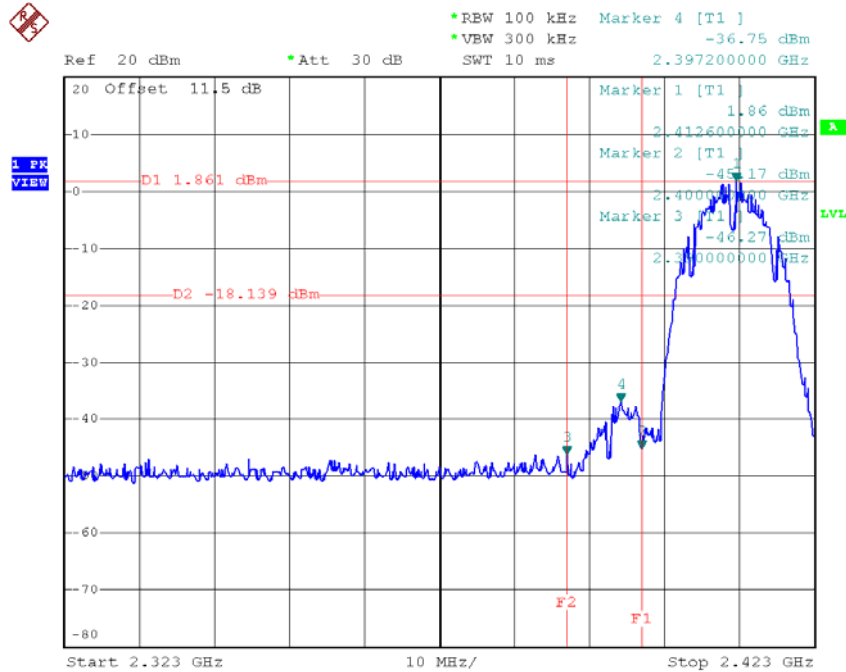
Test Mode: TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.02	0.1005	30.00	1.00	Complies
2437	20.98	0.1253	30.00	1.00	Complies
2462	21.03	0.1268	30.00	1.00	Complies

Test Mode: TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.08	0.1019	30.00	1.00	Complies
2437	20.78	0.1197	30.00	1.00	Complies
2462	21.32	0.1355	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

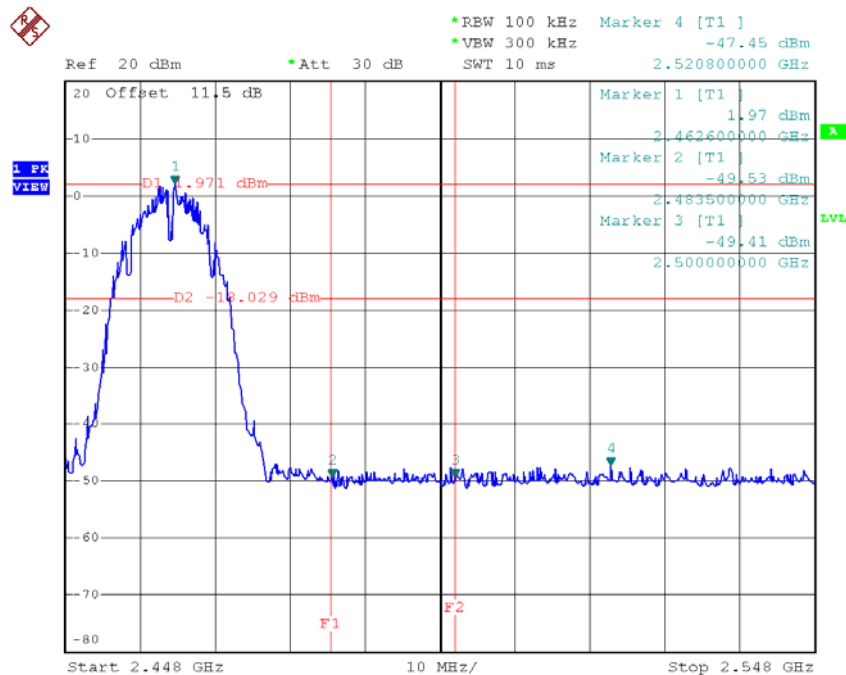
Test Mode: TX B Mode

TX B mode CH01



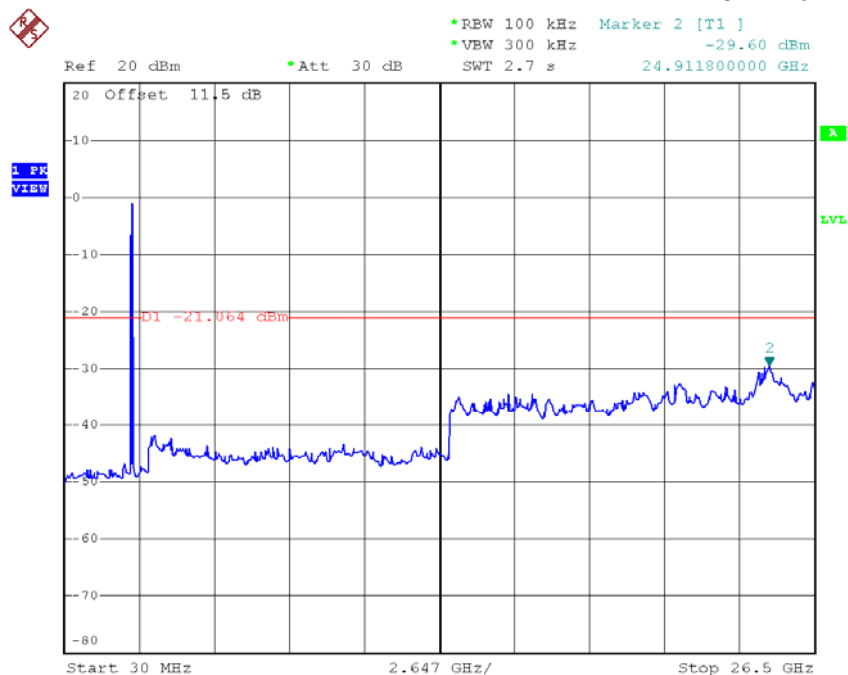
Date: 29.MAR.2016 11:50:23

TX B mode CH11



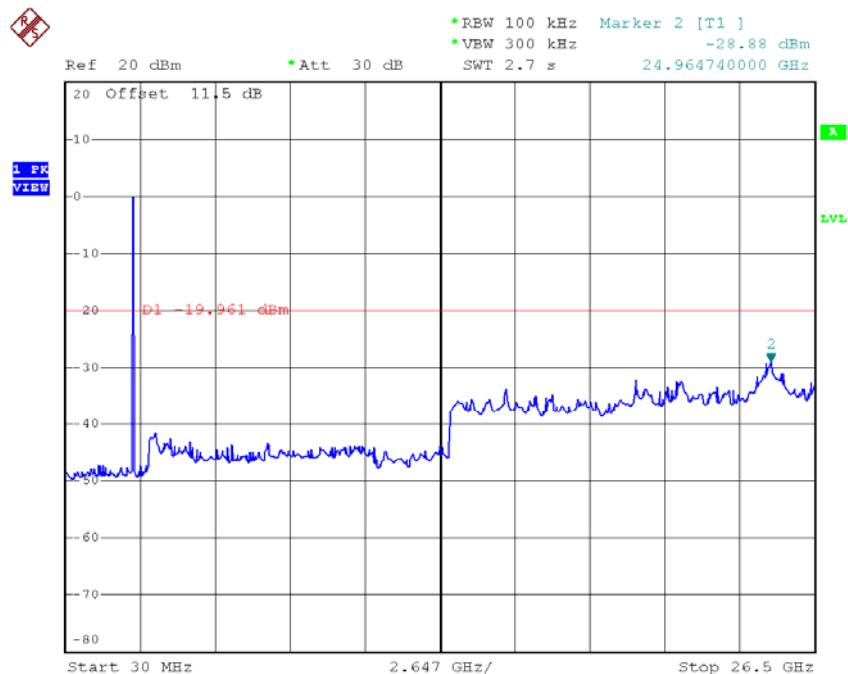
Date: 29.MAR.2016 11:55:05

TX B mode CH01 (10 Harmonic of the frequency)



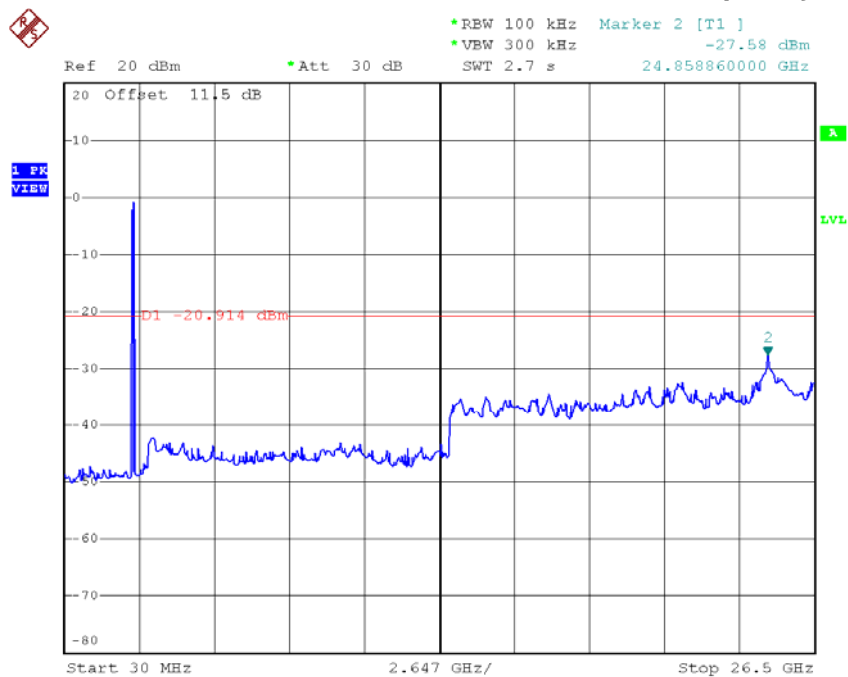
Date: 29.MAR.2016 11:49:59

TX B mode CH06 (10 Harmonic of the frequency)



Date: 29.MAR.2016 11:53:05

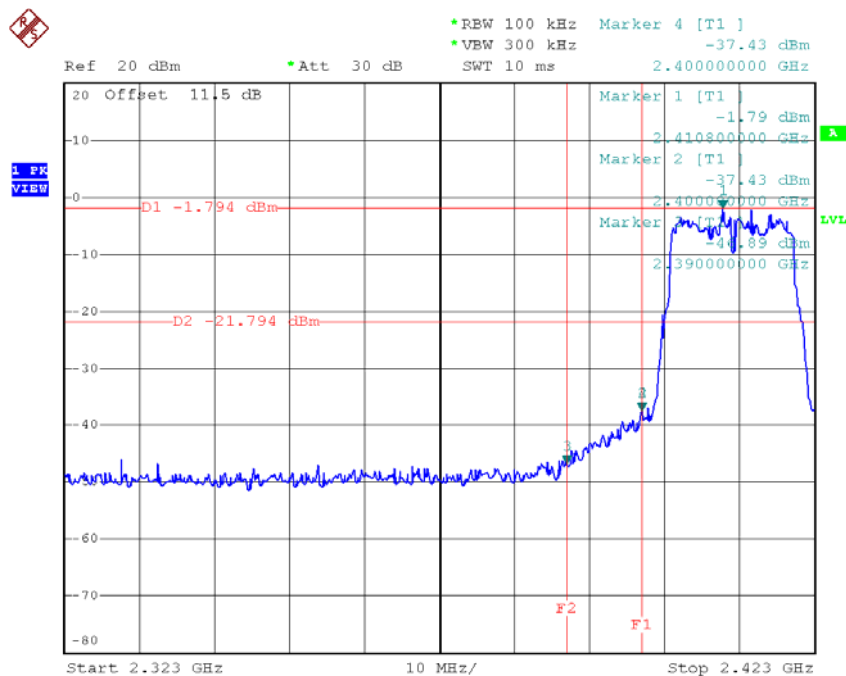
TX B mode CH11 (10 Harmonic of the frequency)



Date: 29.MAR.2016 11:54:59

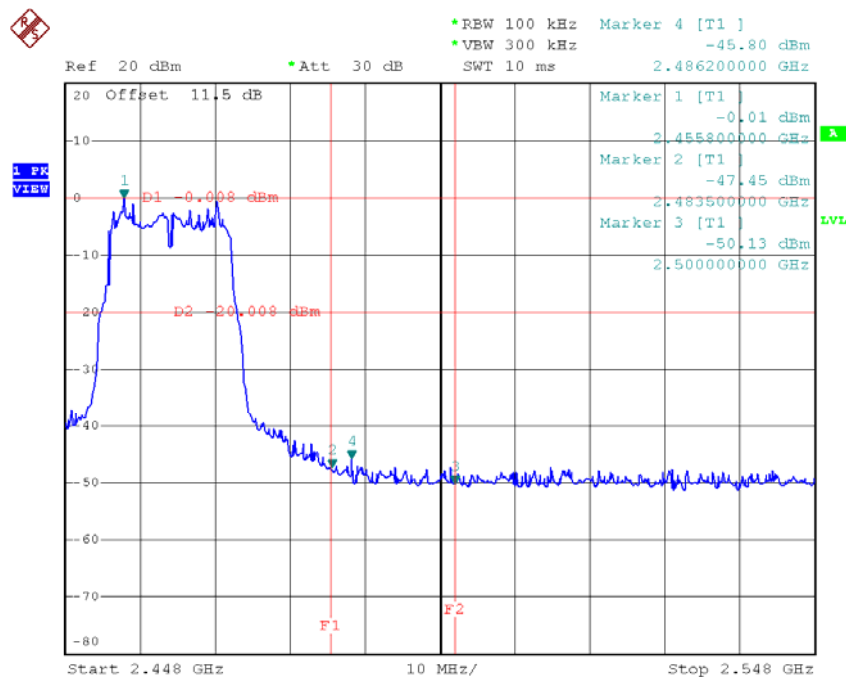
Test Mode: TX G Mode

TX G mode CH01



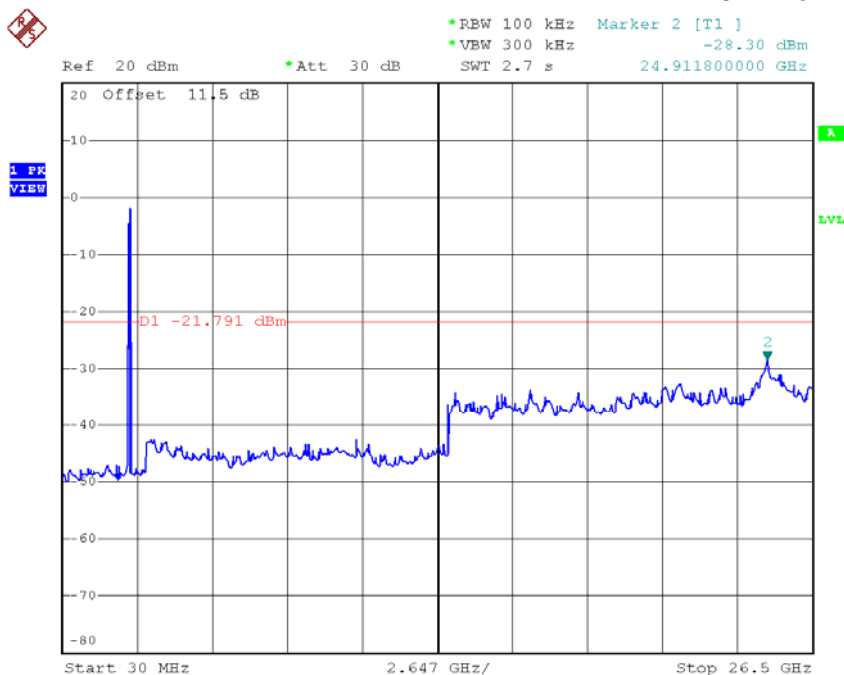
Date: 29.MAR.2016 12:04:20

TX G mode CH11



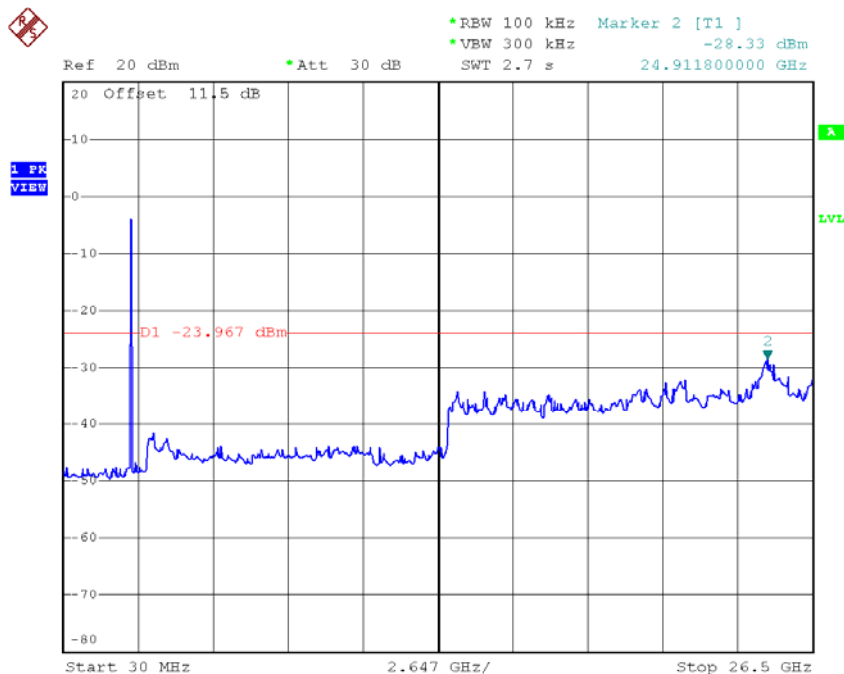
Date: 29.MAR.2016 12:06:34

TX G mode CH01 (10 Harmonic of the frequency)



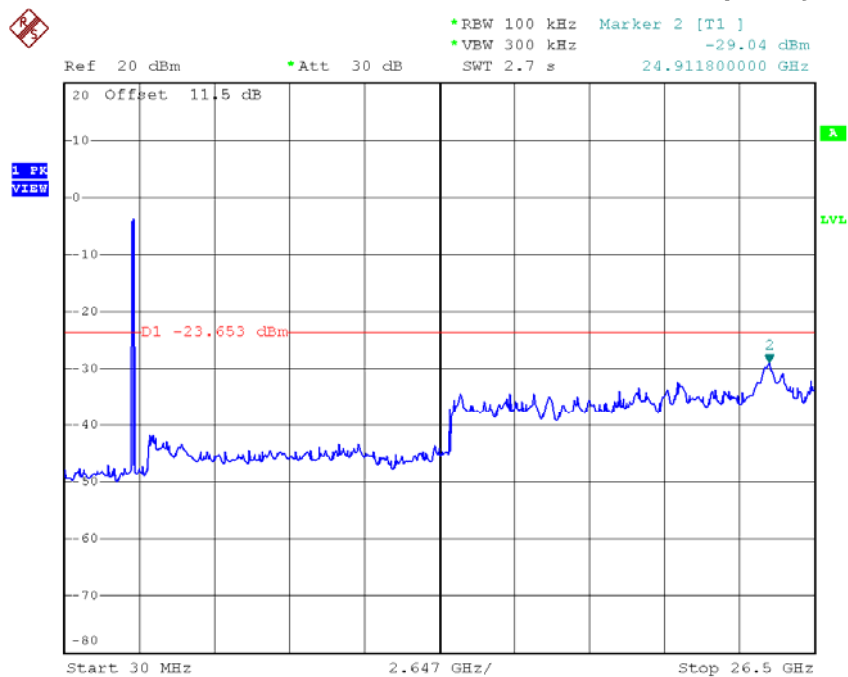
Date: 29.MAR.2016 12:03:57

TX G mode CH06 (10 Harmonic of the frequency)



Date: 29.MAR.2016 12:05:12

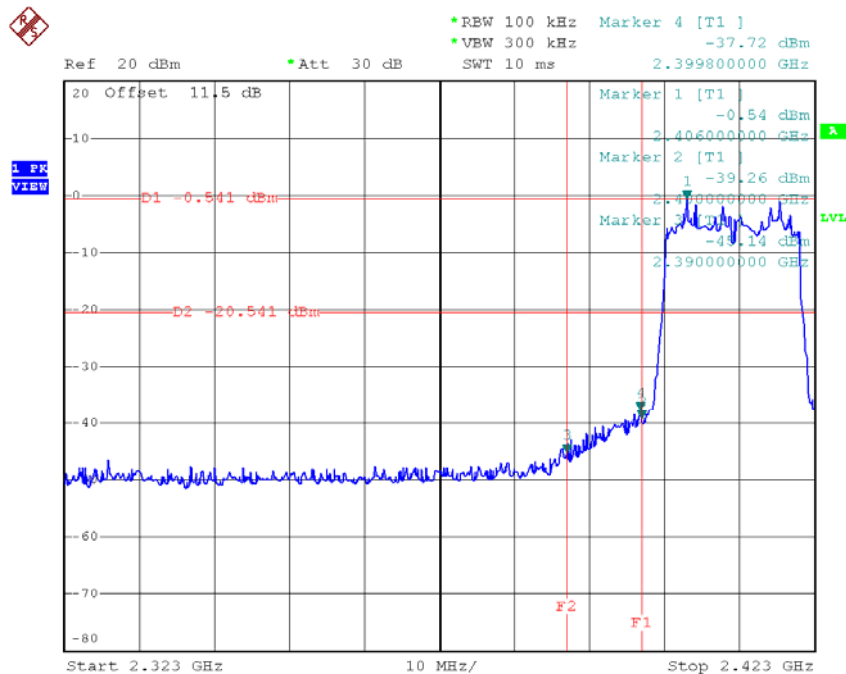
TX G mode CH11 (10 Harmonic of the frequency)



Date: 29.MAR.2016 12:06:11

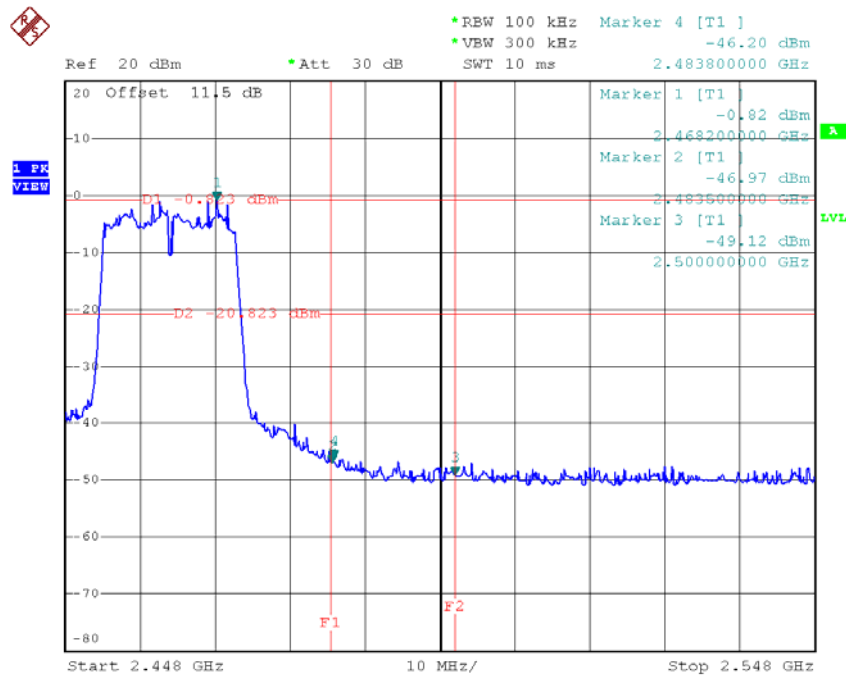
Test Mode: TX N-20M Mode

TX HT20 mode CH01



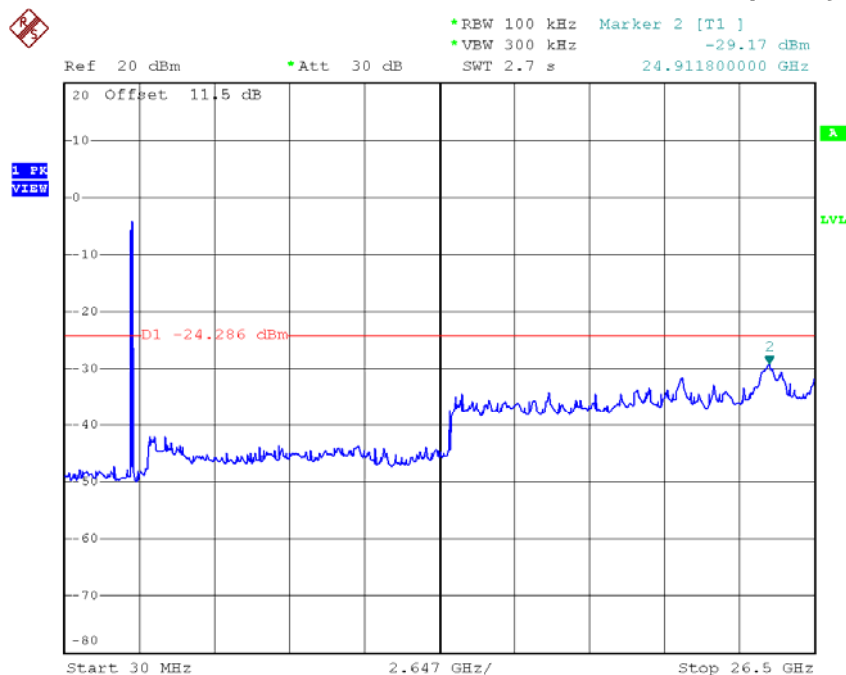
Date: 29.MAR.2016 12:11:12

TX HT20 mode CH11



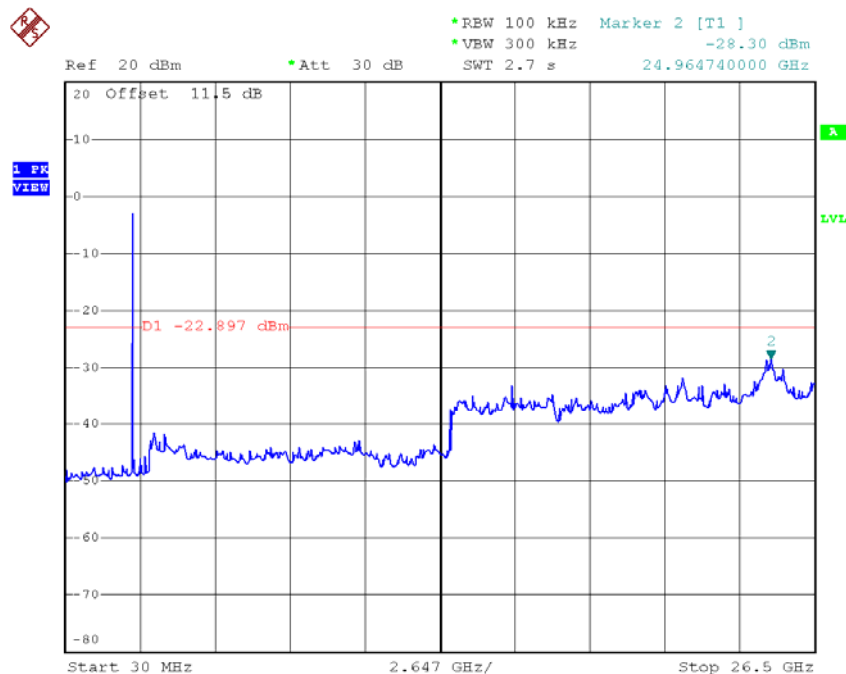
Date: 29.MAR.2016 12:19:13

TX HT20 mode CH01 (10 Harmonic of the frequency)



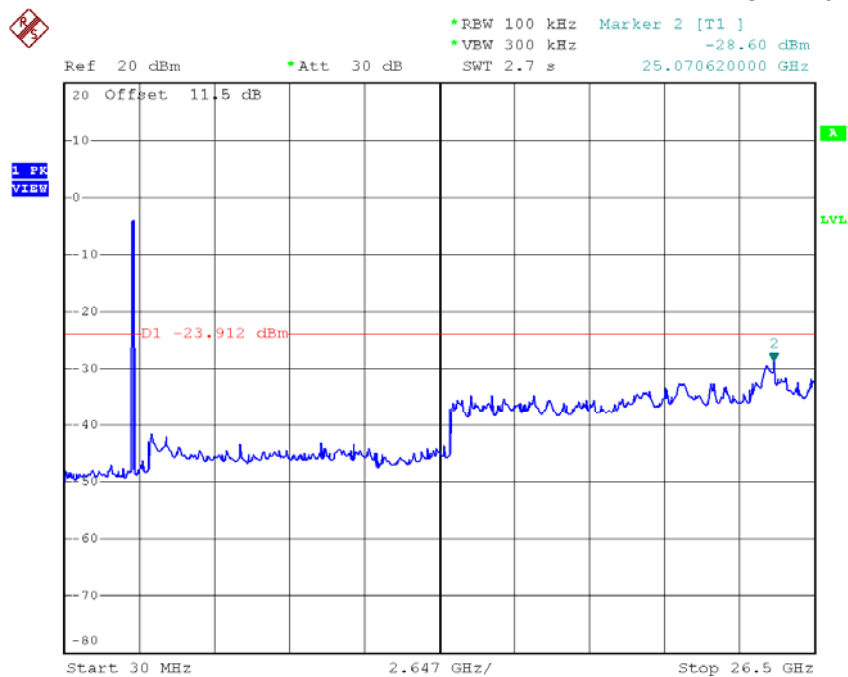
Date: 29.MAR.2016 12:10:49

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 29.MAR.2016 12:17:43

TX HT20 mode CH11 (10 Harmonic of the frequency)



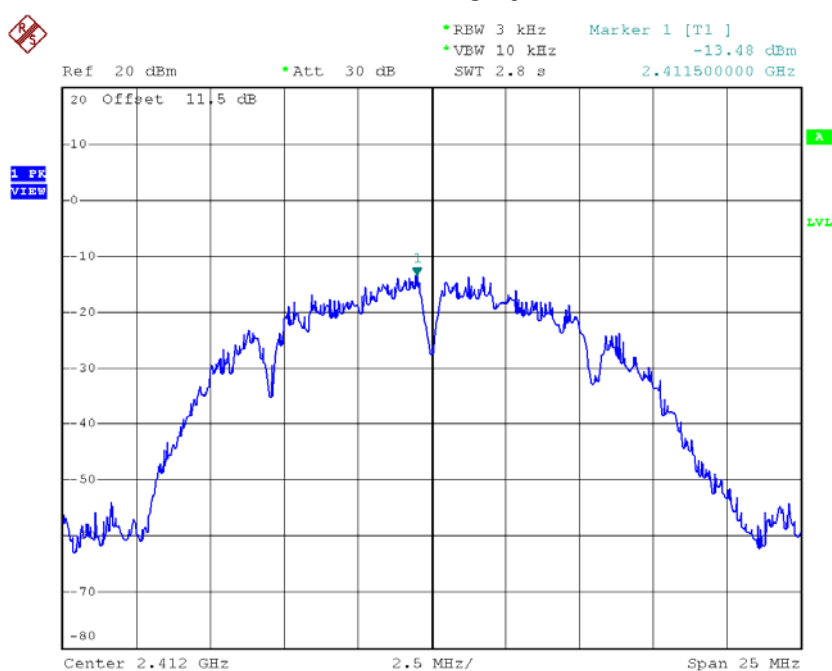
Date: 29.MAR.2016 12:18:50

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode: TX B Mode_CH01/06/11

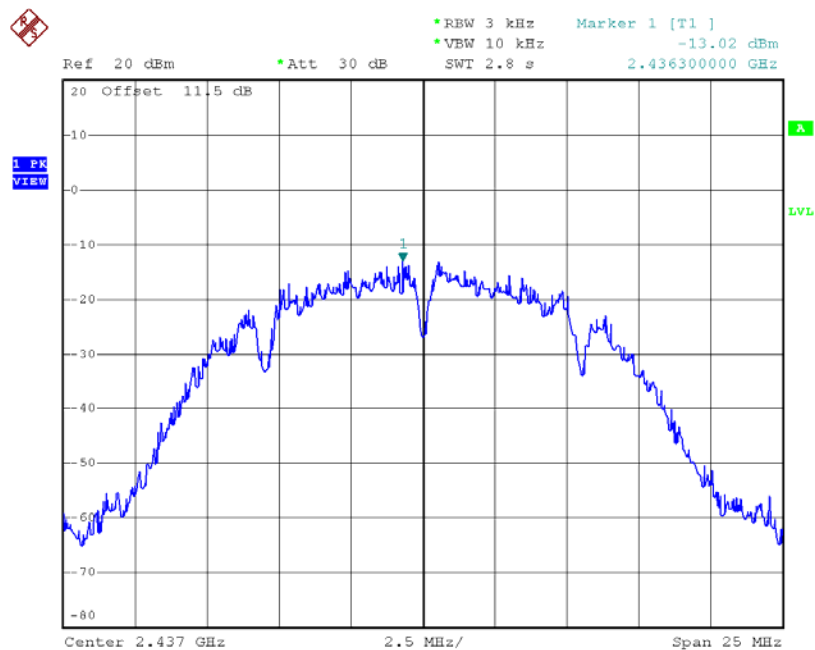
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.48	0.04	8.00	Complies
2437	-13.02	0.05	8.00	Complies
2462	-12.80	0.05	8.00	Complies

TX CH01



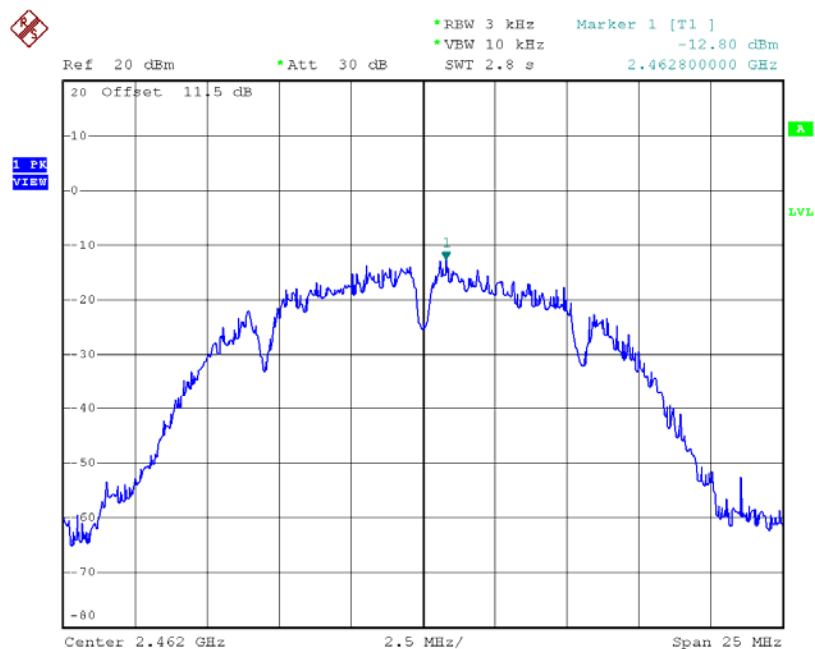
Date: 29.MAR.2016 11:50:31

TX CH06



Date: 29.MAR.2016 11:53:13

TX CH11

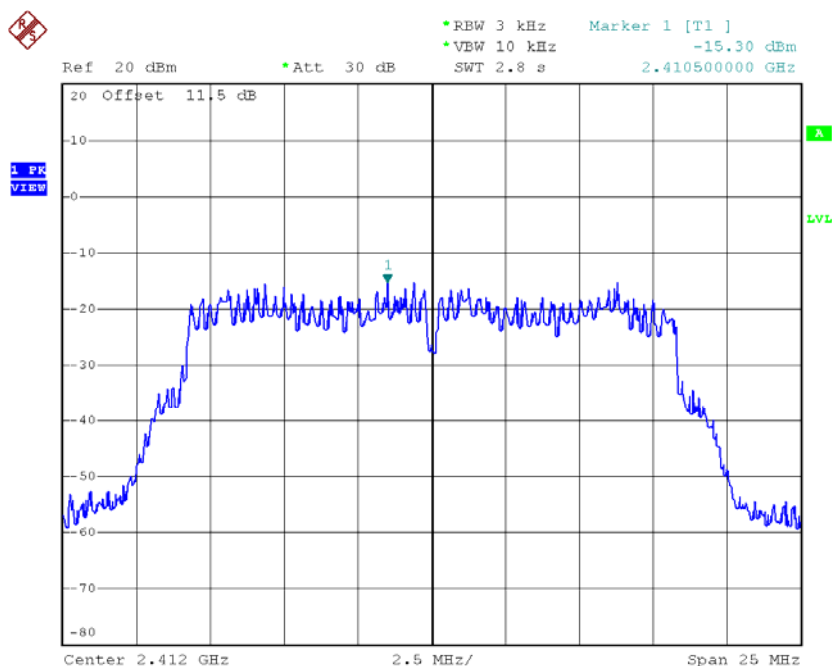


Date: 29.MAR.2016 11:55:13

Test Mode: TX G Mode_CH01/06/11

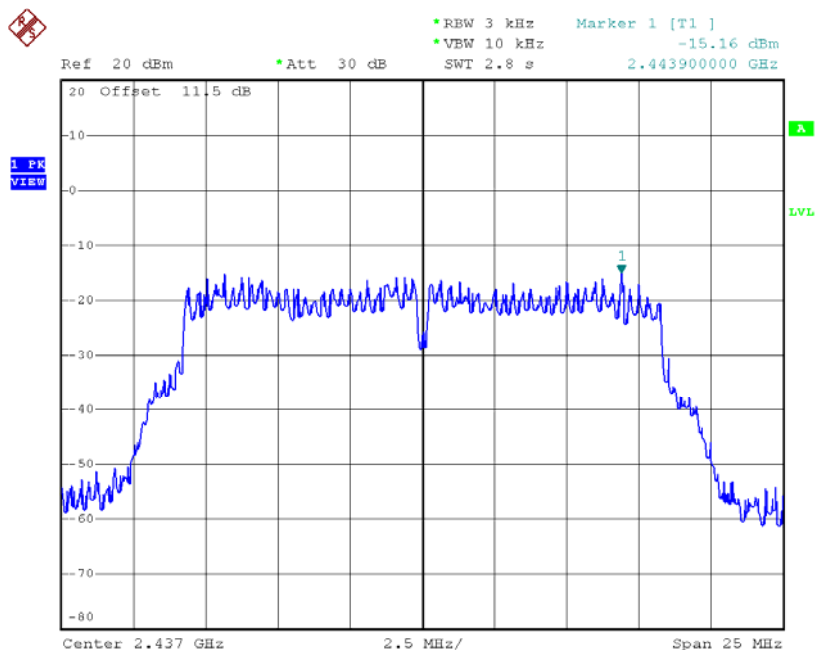
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.30	0.03	8.00	Complies
2437	-15.16	0.03	8.00	Complies
2462	-12.95	0.05	8.00	Complies

TX CH01



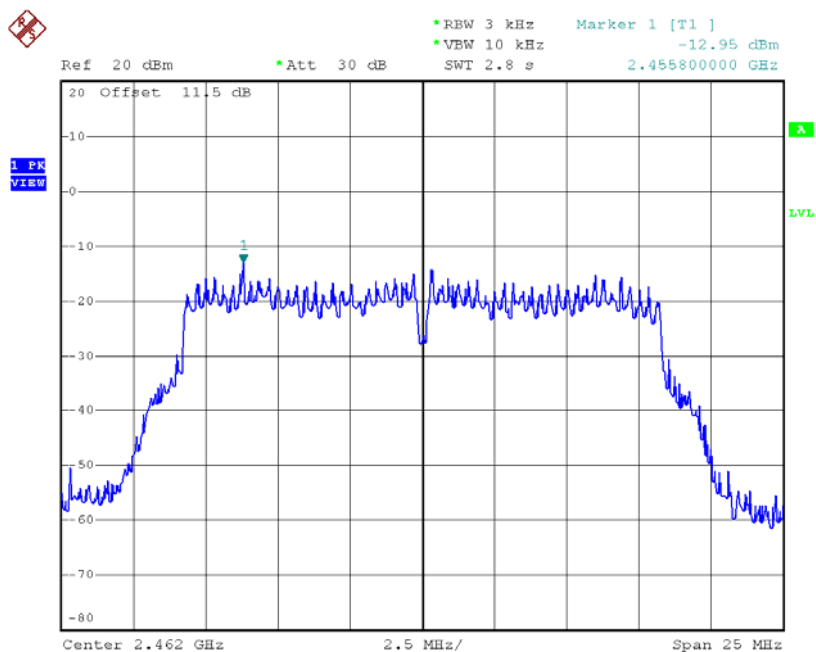
Date: 29.MAR.2016 12:04:28

TX CH06



Date: 29.MAR.2016 12:05:20

TX CH11

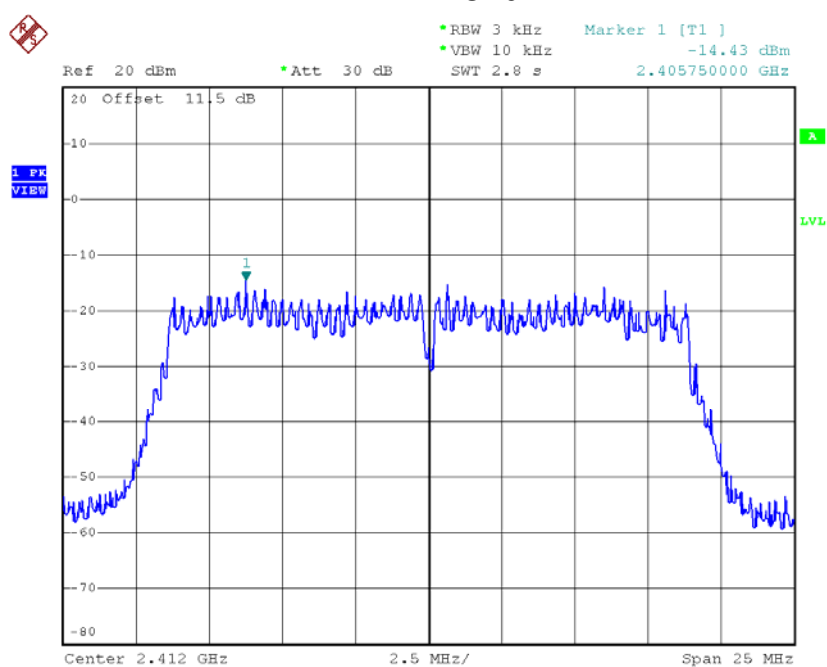


Date: 29.MAR.2016 12:06:42

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

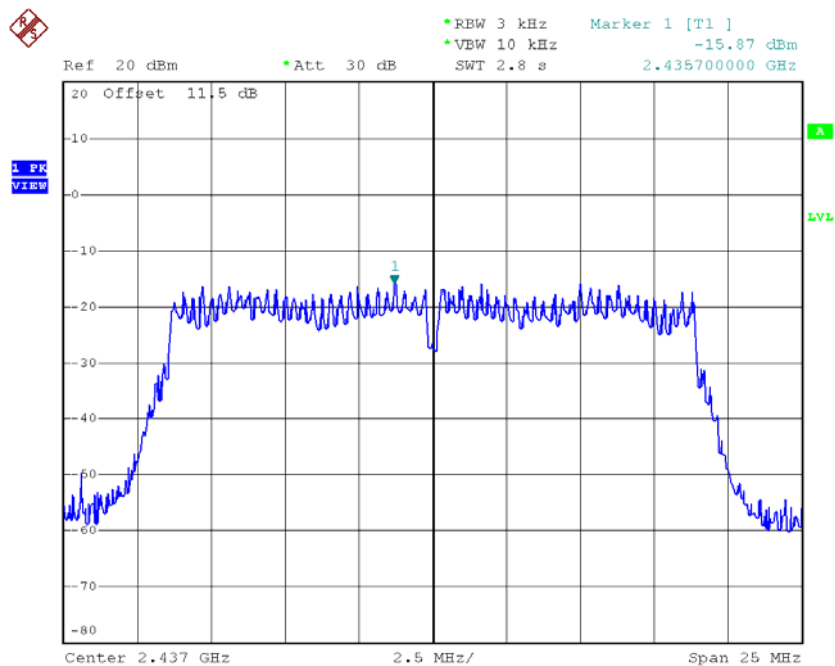
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.43	0.04	8.00	Complies
2437	-15.87	0.03	8.00	Complies
2462	-15.16	0.03	8.00	Complies

TX CH01



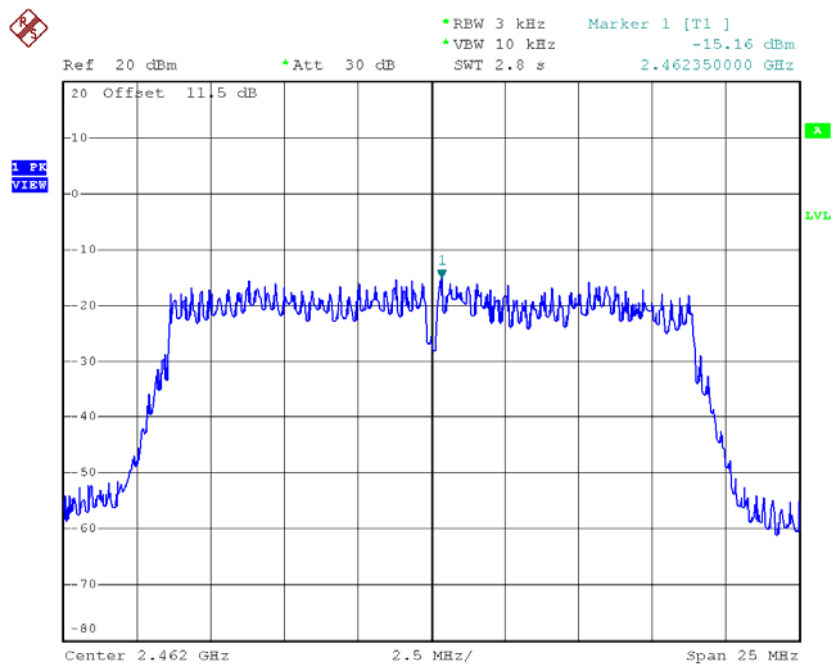
Date: 29.MAR.2016 12:11:20

TX CH06



Date: 29.MAR.2016 12:17:51

TX CH11



Date: 29.MAR.2016 12:19:21