FCC Radio Test Report

FCC ID: W3QWIFIHDDP700

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

Project No.	:	1505C169
Equipment	:	Portable Wi-Fi HDD
Model Name	:	Wi-Fi HDD/P700
Applicant	:	Dexxon Groupe
Address	:	79, Avenue Louis Roche 92230 Gennevilliers

Date of Receipt	:	May 18, 2015
Date of Test	:	May 18, 2015 ~ May 27, 2015
Issued Date	:	May 28, 2015
Tested by	:	BTL Inc.

Testing Engineer : David Mao
(David Mao)

Technical Manager : Leo Hung
(Leo Hung)

Authorized Signatory : Steven Lu
(Steven Lu)

BTL INC.

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Declaration

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

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Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1505C169	Original Issue.	May 28, 2015

1. CERTIFICATION

Equipment	:	Portable Wi-Fi HDD
Brand Name	:	EMTEC
Model Name	:	Wi-Fi HDD/P700
Applicant	:	Dexxon Groupe
Manufacturer	:	Dexxon Groupe
Address	:	79, Avenue Louis Roche 92230 Gennevilliers
Factory	:	Power7 Technology (Dong Guan) Co., Ltd
Address	:	No.28 Binjiang St.Shishuikou Village, Qiaotou Town, Dongguan City, GuangDong Province P.R.China
Date of Test	:	May 18, 2015 ~ May 27, 2015
Test Sample	:	ENGINEERING SAMPLE
Standard(s)	:	FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.4-2014

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-FCCP-1-1505C169) 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: 2014			
Standard(s) Section **FCC**	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) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r03 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

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

The reported uncertainty of measurement y ± 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)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

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

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	Portable Wi-Fi HDD	
Brand Name	EMTEC	
Model Difference	N/A	
Model Difference	Only different is hard drive capacity.	
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 150 Mbps
	Output Power (Max.)	802.11b: 17.41dBm 802.11g: 23.08dBm 802.11n(20MHz): 22.83dBm 802.11n(40MHz): 23.18dBm
Power Source	#1 Supplied from battery. 1) Mode: SP 954856 2) Mode: JS944858 #2 Supplied from USB port.	
Power Rating	#1 DC 3.7V 3000mA #2 EUT I/P DC 5V 2A	

Note:

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

2. Channel List:

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Internal	N/A	2.00	TX/RX

4.

Model Name	HDD Model Name	HDD S/N	Brand	Rotate speed	Interface	HDD capacity
Portable Wi-Fi HDD/P700	ST2000LM003	S321J9CF907831	SAMSUNG	5400	3.0Gb/s SATA	2TB
	ST1000LM024	S2ZWJ9FD900018	SAMSUNG	5400	3.0Gb/s SATA	1TB
	HTS541010A9E680	CC1X2UHV	HGST	5400	6.0Gb/s SATA	1TB

3.2 DESCRIPTION OF TEST MODES

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

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

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (6.5Mbps)
802.11n HT40 mode : BPSK (13.5Mbps)
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.

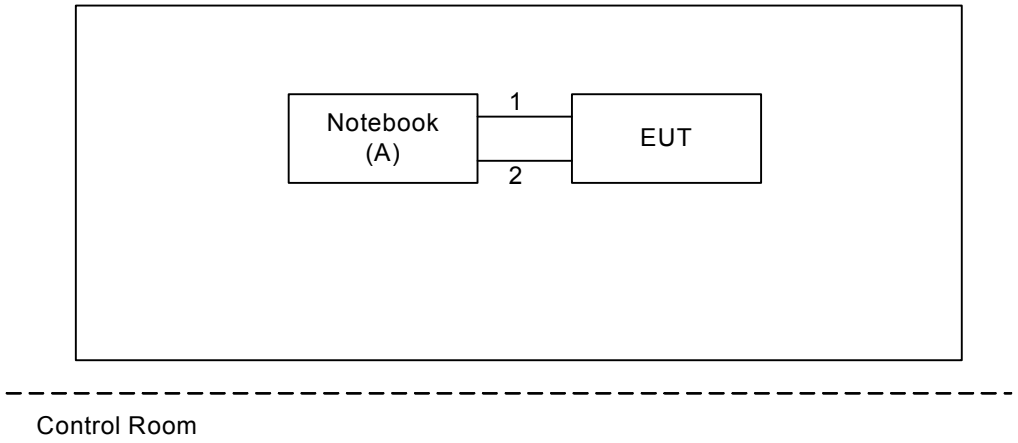
(4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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	MT7620 QA V1.0.6.0		
Frequency (MHz)	2412	2437	2462
802.11b	0C	0B	0A
802.11g	0B	0A	0A
802.11n (20MHz)	0B	0A	0A
Frequency	2422	2437	2452
802.11n (40MHz)	0D	0D	0D

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
A	Notebook	Lenovo	H2510	DOC	SS07999198	

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1m	RJ45 Cable
2	NO	NO	0.45m	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.	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

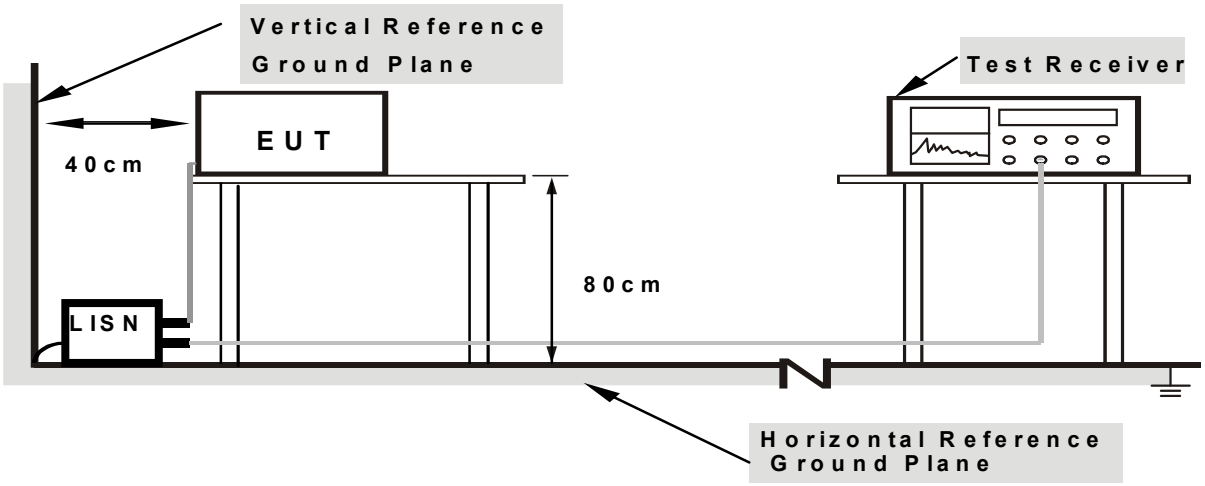
4.1.2 TEST PROCEDURE

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 configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

(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)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

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

4.2.2 TEST PROCEDURE

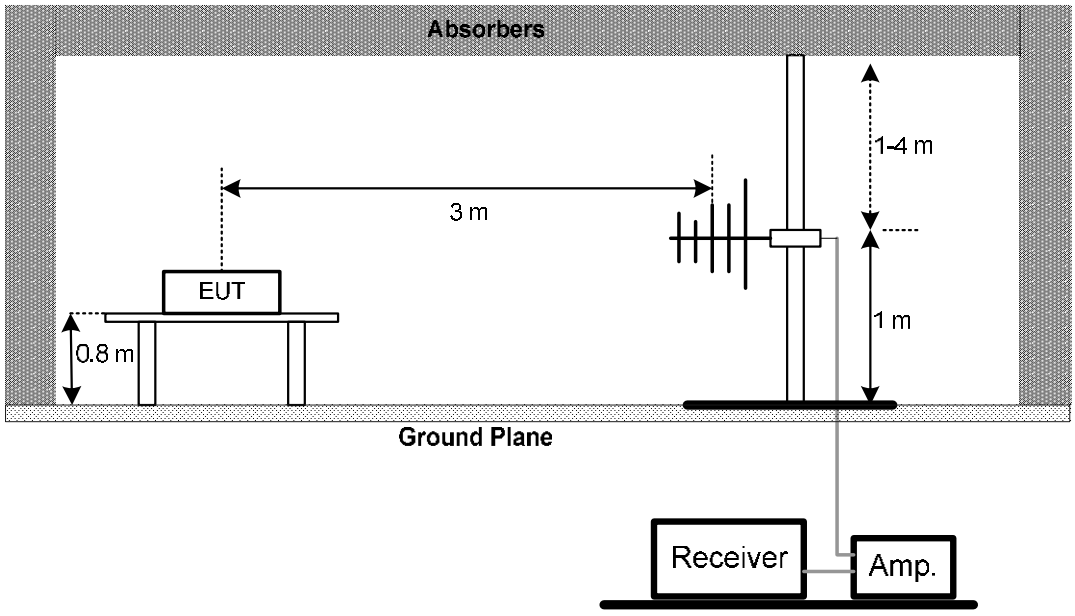
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting conducted emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
h. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

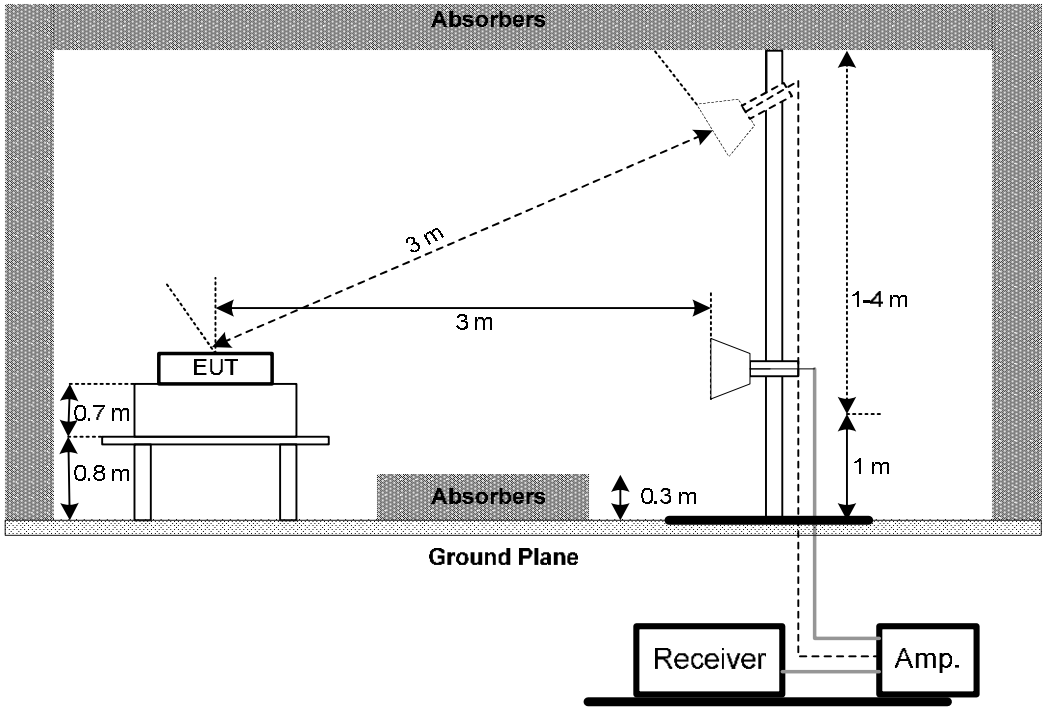
No deviation

4.2.4 TEST SETUP

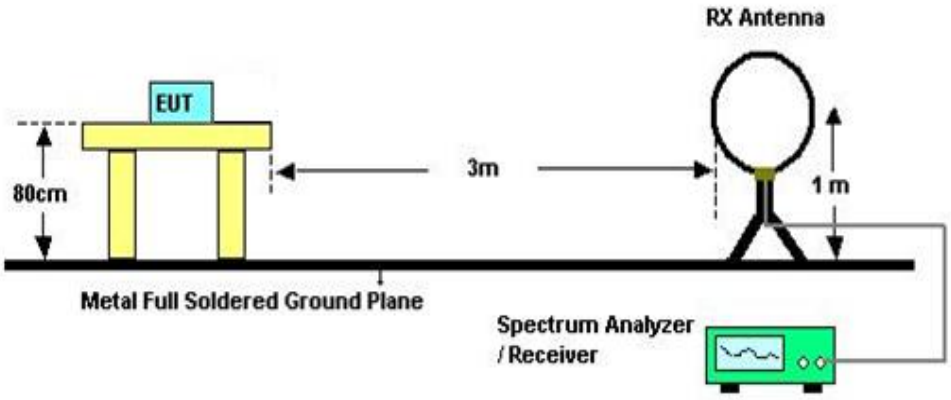
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5 Unless** otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% 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 (specific distance / 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

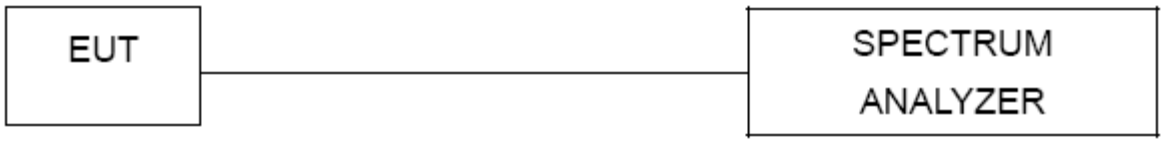
5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

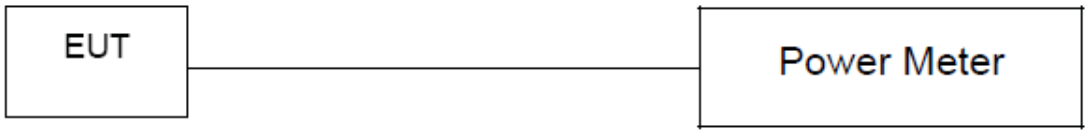
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r03.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.
Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

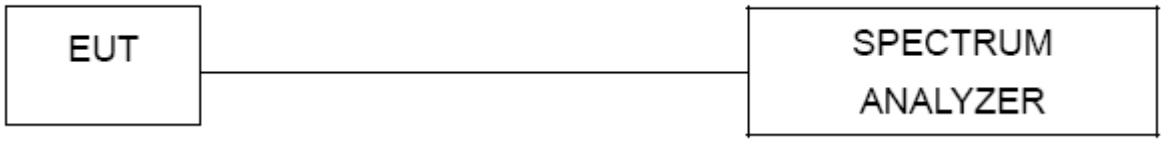
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% 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

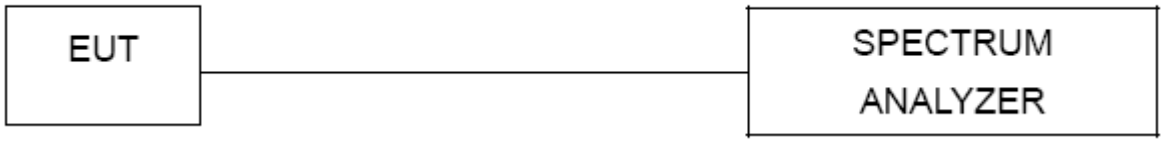
8.1.1 TEST PROCEDURE

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=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	N/A	C_17	N/A	Mar. 13, 2016
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016
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. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	CT	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 28, 2016
8	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
9	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
10	Test Cable	N/A	C-68	N/A	Jul. 01, 2015
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 16, 2015
15	Position Control	MF	MF-7802	MF780208159	N/A

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	power Meter	ANRITSU	ML2495A	1128009	Mar. 28, 2016
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 28, 2016

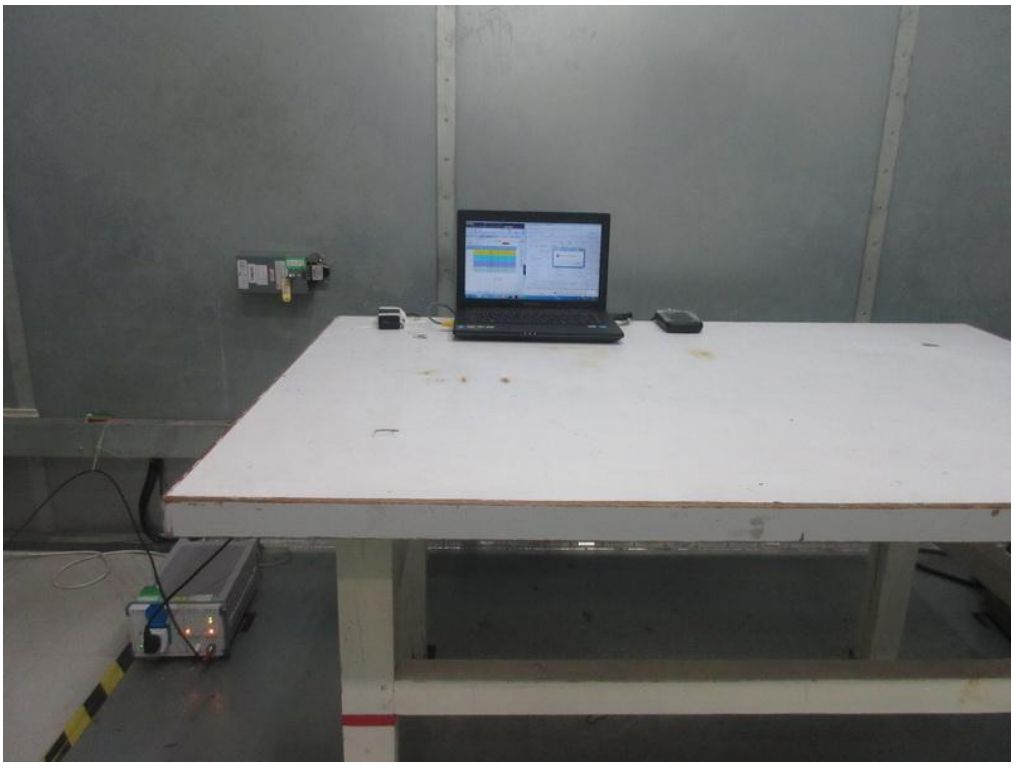
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

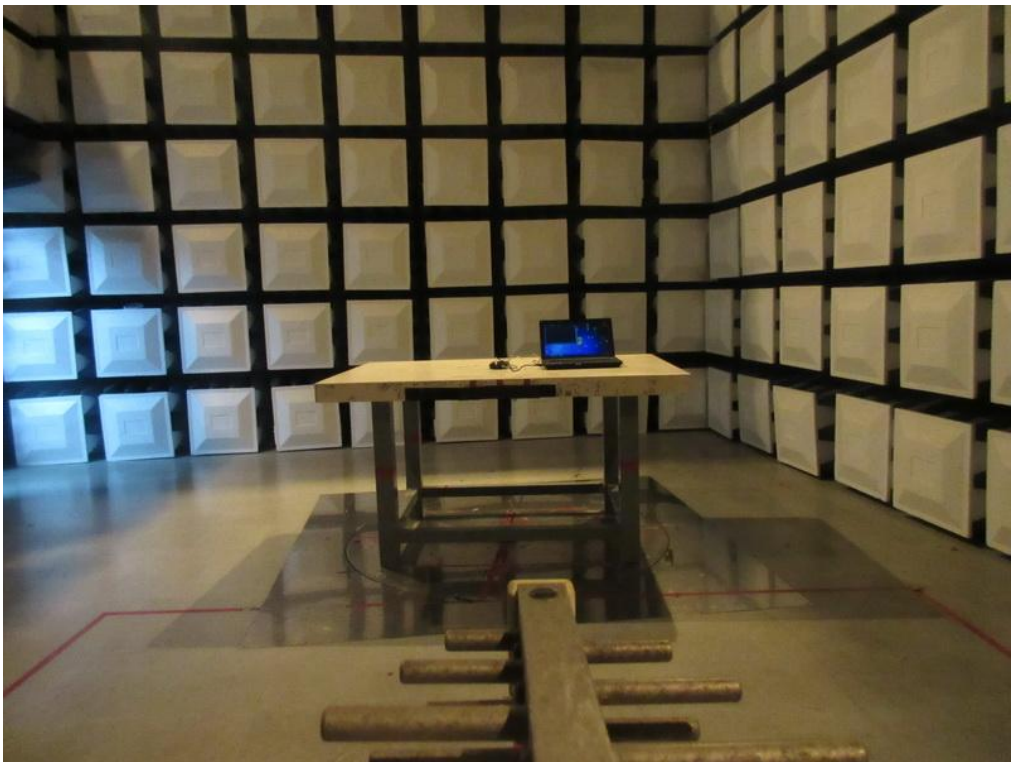


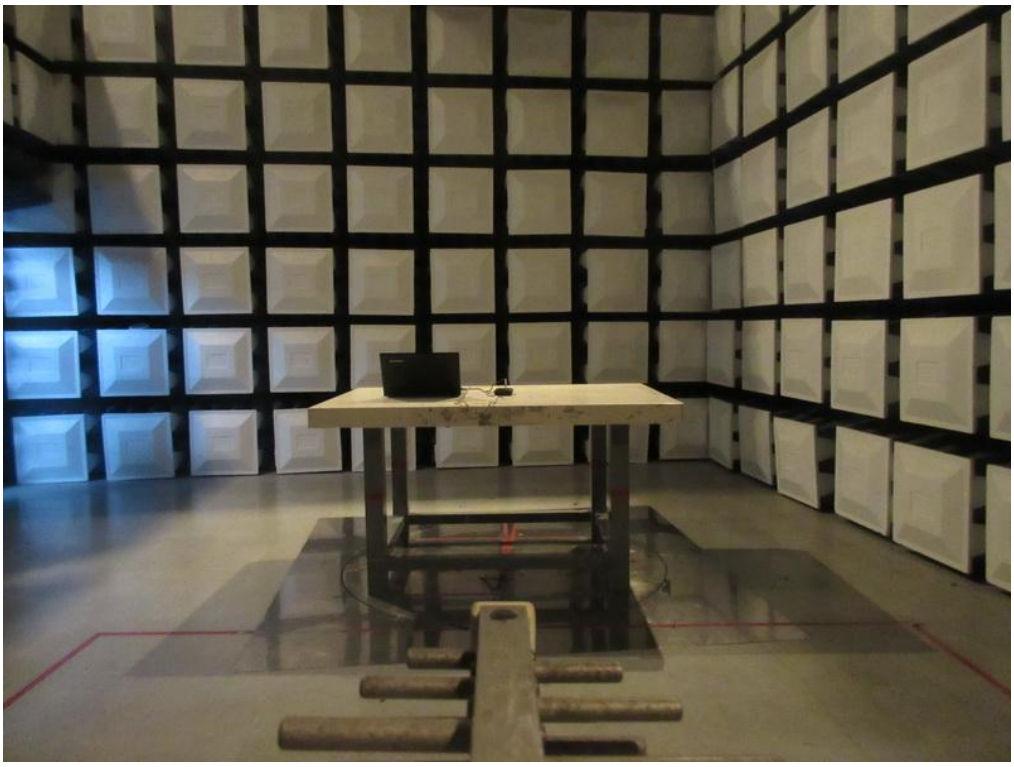
Radiated Measurement Photos

9KHz to 30MHz

Radiated Measurement Photos

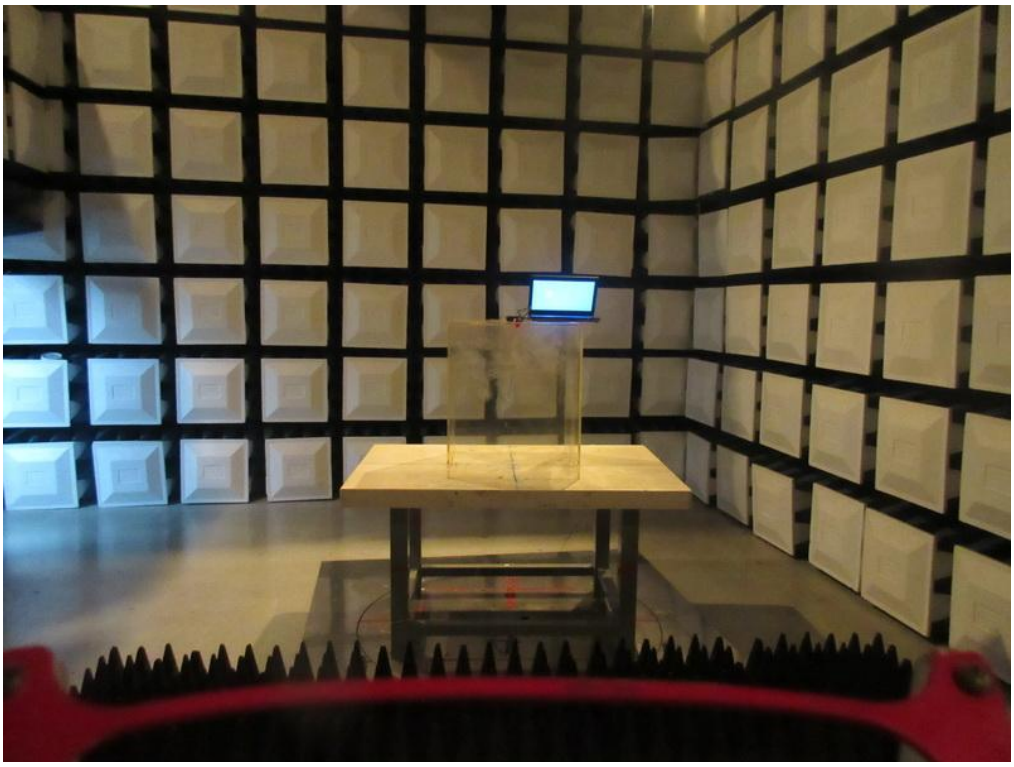
30MHz to 1000MHz





Radiated Measurement Photos

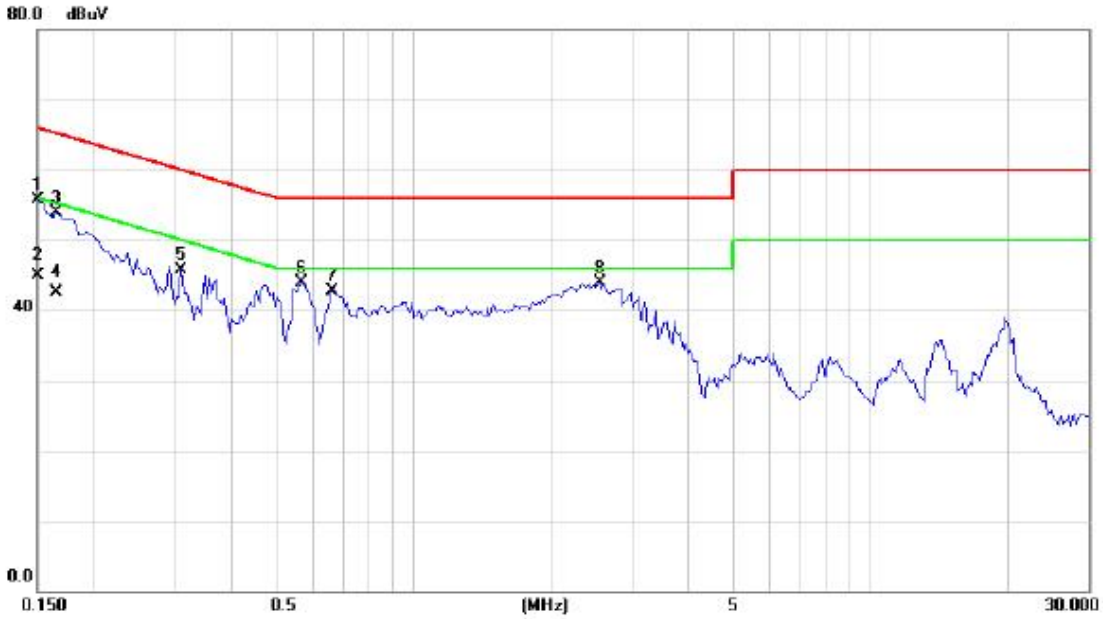
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode :	TX MODE- HDD model name: ST2000LM003

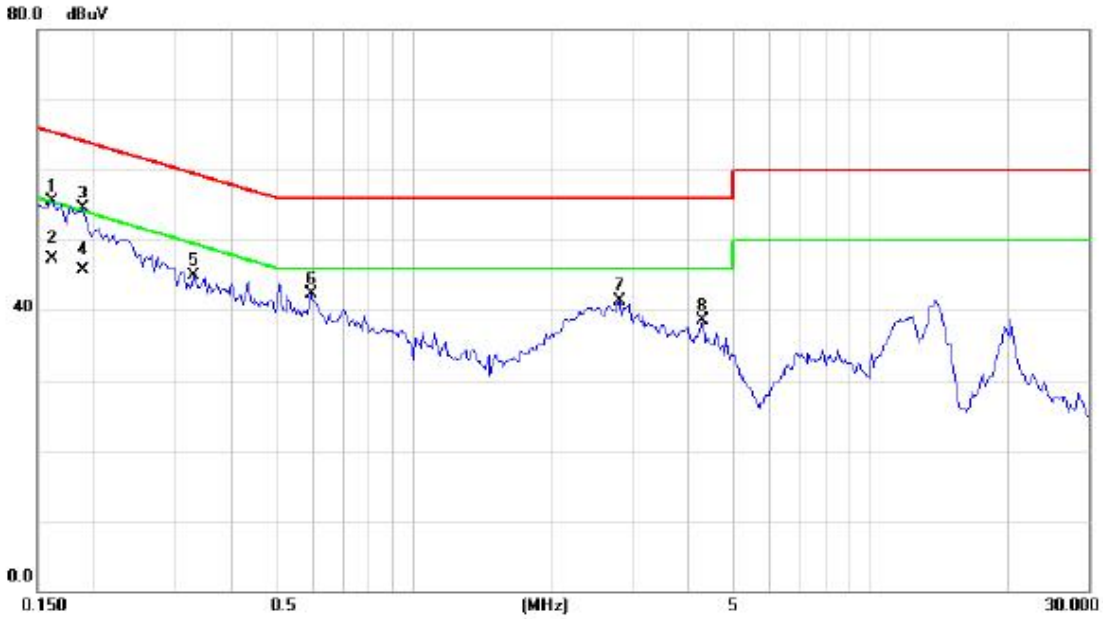
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	46.16	9.54	55.70	66.00	-10.30	peak	
2		0.1500	35.45	9.54	44.99	56.00	-11.01	AVG	
3		0.1655	44.32	9.56	53.88	65.18	-11.30	peak	
4		0.1655	32.91	9.56	42.47	55.18	-12.71	AVG	
5		0.3102	36.12	9.64	45.76	59.97	-14.21	peak	
6		0.5680	34.28	9.71	43.99	56.00	-12.01	peak	
7		0.6617	32.89	9.73	42.62	56.00	-13.38	peak	
8		2.5523	33.81	10.00	43.81	56.00	-12.19	peak	

Test Mode :	TX MODE- HDD model name: ST2000LM003

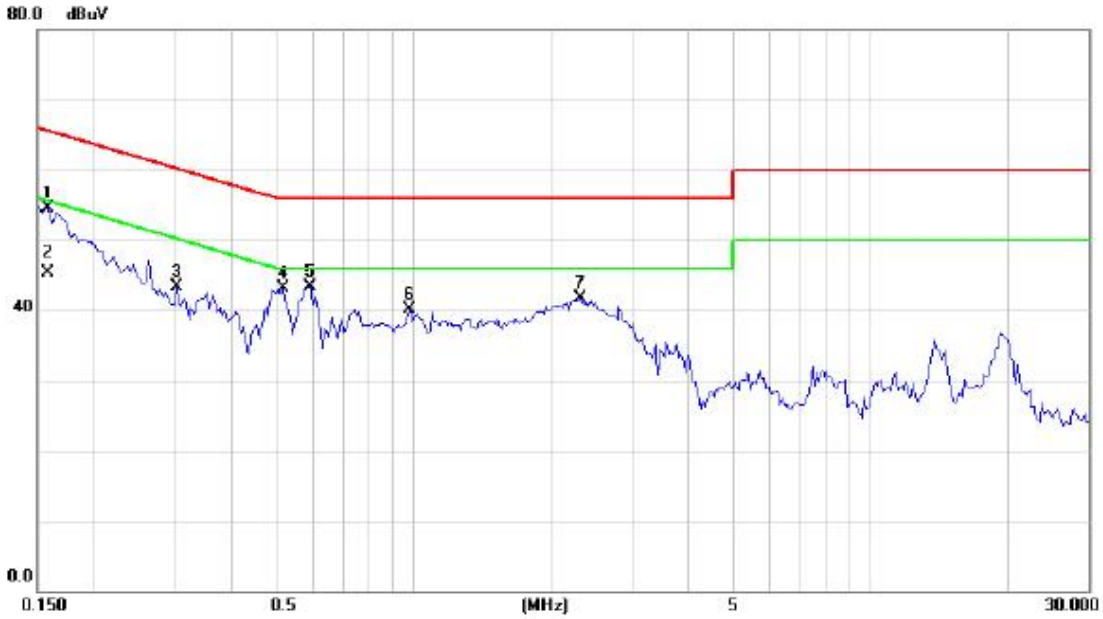
Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1617	46.04	9.48	55.52	65.38	-9.86	peak	
2	*	0.1617	37.82	9.48	47.30	55.38	-8.08	AVG	
3		0.1891	44.95	9.49	54.44	64.08	-9.64	peak	
4		0.1891	36.20	9.49	45.69	54.08	-8.39	AVG	
5		0.3297	35.30	9.53	44.83	59.46	-14.63	peak	
6		0.5953	32.84	9.56	42.40	56.00	-13.60	peak	
7		2.8180	31.60	9.80	41.40	56.00	-14.60	peak	
8		4.2773	28.50	9.91	38.41	56.00	-17.59	peak	

Test Mode :	TX MODE- HDD model name: ST1000LM024

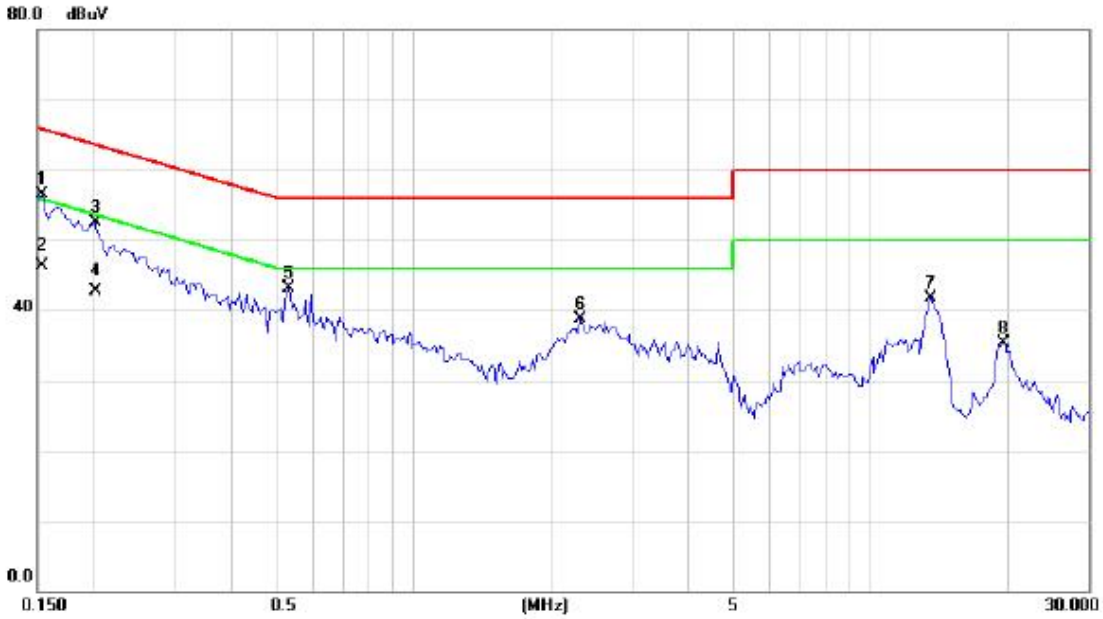
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1578	45.03	9.55	54.58	65.58	-11.00	peak	
2	*	0.1578	35.82	9.55	45.37	55.58	-10.21	AVG	
3		0.3023	33.67	9.64	43.31	60.18	-16.87	peak	
4		0.5171	33.43	9.69	43.12	56.00	-12.88	peak	
5		0.5914	33.67	9.72	43.39	56.00	-12.61	peak	
6		0.9820	30.21	9.80	40.01	56.00	-15.99	peak	
7		2.3102	31.80	9.96	41.76	56.00	-14.24	peak	

Test Mode :	TX MODE- HDD model name: ST1000LM024

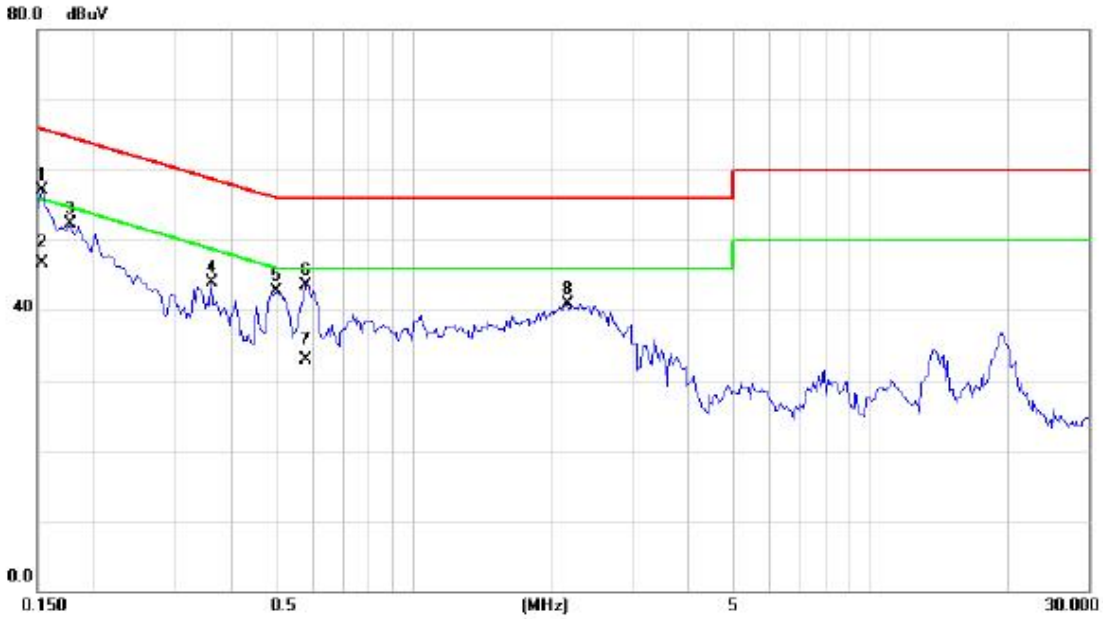
Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1540	47.05	9.49	56.54	65.78	-9.24	peak	
2		0.1540	36.88	9.49	46.37	55.78	-9.41	AVG	
3		0.2007	42.95	9.50	52.45	63.58	-11.13	peak	
4		0.2007	33.25	9.50	42.75	53.58	-10.83	AVG	
5		0.5328	33.61	9.56	43.17	56.00	-12.83	peak	
6		2.3180	28.87	9.75	38.62	56.00	-17.38	peak	
7		13.5312	31.81	9.90	41.71	60.00	-18.29	peak	
8		19.5703	25.42	9.97	35.39	60.00	-24.61	peak	

Test Mode :	TX MODE- HDD model name: HTS541010A9E680

Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1540	47.60	9.54	57.14	65.78	-8.64	peak	
2		0.1540	37.24	9.54	46.78	55.78	-9.00	AVG	
3		0.1773	42.78	9.56	52.34	64.61	-12.27	peak	
4		0.3608	34.30	9.66	43.96	58.71	-14.75	peak	
5		0.5016	33.10	9.68	42.78	56.00	-13.22	peak	
6		0.5796	33.83	9.71	43.54	56.00	-12.46	peak	
7		0.5797	23.15	9.71	32.86	46.00	-13.14	AVG	
8		2.1773	31.03	9.94	40.97	56.00	-15.03	peak	

Test Mode :	TX MODE- HDD model name: HTS541010A9E680

Neutral

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	46.32	9.49	55.81	66.00	-10.19	peak	
2		0.1500	35.72	9.49	45.21	56.00	-10.79	AVG	
3		0.1850	44.02	9.49	53.51	64.26	-10.75	peak	
4		0.1852	33.68	9.49	43.17	54.25	-11.08	AVG	
5		0.2790	37.17	9.52	46.69	60.85	-14.16	peak	
6		0.5523	32.68	9.56	42.24	56.00	-13.76	peak	
7		2.4937	28.09	9.77	37.86	56.00	-18.14	peak	
8		13.8477	31.15	9.91	41.06	60.00	-18.94	peak	

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

Test Mode:	TX Mode 2412MHz- HDD model name: ST2000LM003

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0094	0°	13.41	24.97	38.38	128.11	-89.73	AVG
0.0094	0°	14.28	24.97	39.25	148.11	-108.86	PEAK
0.0228	0°	6.73	24.12	30.85	120.45	-89.59	AVG
0.0228	0°	8.12	24.12	32.24	140.45	-108.20	PEAK
0.0319	0°	3.17	23.55	26.72	117.53	-90.81	AVG
0.0319	0°	5.58	23.55	29.13	137.53	-108.40	PEAK
0.0423	0°	1.16	22.89	24.05	115.08	-91.03	AVG
0.0423	0°	2.53	22.89	25.42	135.08	-109.66	PEAK
0.4916	0°	19.36	19.82	39.18	73.77	-34.59	QP
1.7157	0°	23.71	19.53	43.24	69.54	-26.30	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0250	90°	13.85	23.98	37.83	119.65	-81.81	AVG
0.0250	90°	15.23	23.98	39.21	139.65	-100.43	PEAK
0.0336	90°	8.32	23.44	31.76	117.08	-85.32	AVG
0.0336	90°	9.62	23.44	33.06	137.08	-104.02	PEAK
0.0405	90°	5.68	23.00	28.68	115.46	-86.77	AVG
0.0405	90°	7.66	23.00	30.66	135.46	-104.79	PEAK
0.0627	90°	2.82	22.15	24.97	111.66	-86.69	AVG
0.0627	90°	4.39	22.15	26.54	131.66	-105.12	PEAK
1.6180	90°	24.25	19.54	43.79	63.42	-19.64	QP
3.5952	90°	26.34	18.96	45.30	69.54	-24.24	QP

Test Mode:	TX Mode 2412MHz- HDD model name: ST1000LM024

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0094	0°	13.41	24.97	38.38	128.11	-89.73	AVG
0.0094	0°	14.28	24.97	39.25	148.11	-108.86	PEAK
0.0228	0°	6.73	24.12	30.85	120.45	-89.59	AVG
0.0228	0°	8.12	24.12	32.24	140.45	-108.20	PEAK
0.0319	0°	3.17	23.55	26.72	117.53	-90.81	AVG
0.0319	0°	5.58	23.55	29.13	137.53	-108.40	PEAK
0.0423	0°	1.16	22.89	24.05	115.08	-91.03	AVG
0.0423	0°	2.53	22.89	25.42	135.08	-109.66	PEAK
0.4916	0°	19.36	19.82	39.18	73.77	-34.59	QP
1.7157	0°	23.71	19.53	43.24	69.54	-26.30	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0241	90°	13.25	24.04	37.29	119.96	-82.67	AVG
0.0241	90°	15.44	24.04	39.48	139.96	-100.48	PEAK
0.0348	90°	8.05	23.36	31.41	116.77	-85.36	AVG
0.0348	90°	9.64	23.36	33.00	136.77	-103.77	PEAK
0.0412	90°	5.92	22.96	28.88	115.31	-86.43	AVG
0.0412	90°	7.81	22.96	30.77	135.31	-104.54	PEAK
0.0668	90°	2.48	22.06	24.54	111.11	-86.56	AVG
0.0668	90°	4.25	22.06	26.31	131.11	-104.79	PEAK
1.7394	90°	24.84	19.53	44.37	69.54	-25.17	QP
3.6248	90°	26.91	18.96	45.87	69.54	-23.67	QP

Test Mode:	TX Mode 2412MHz - HDD model name: HTS541010A9E680

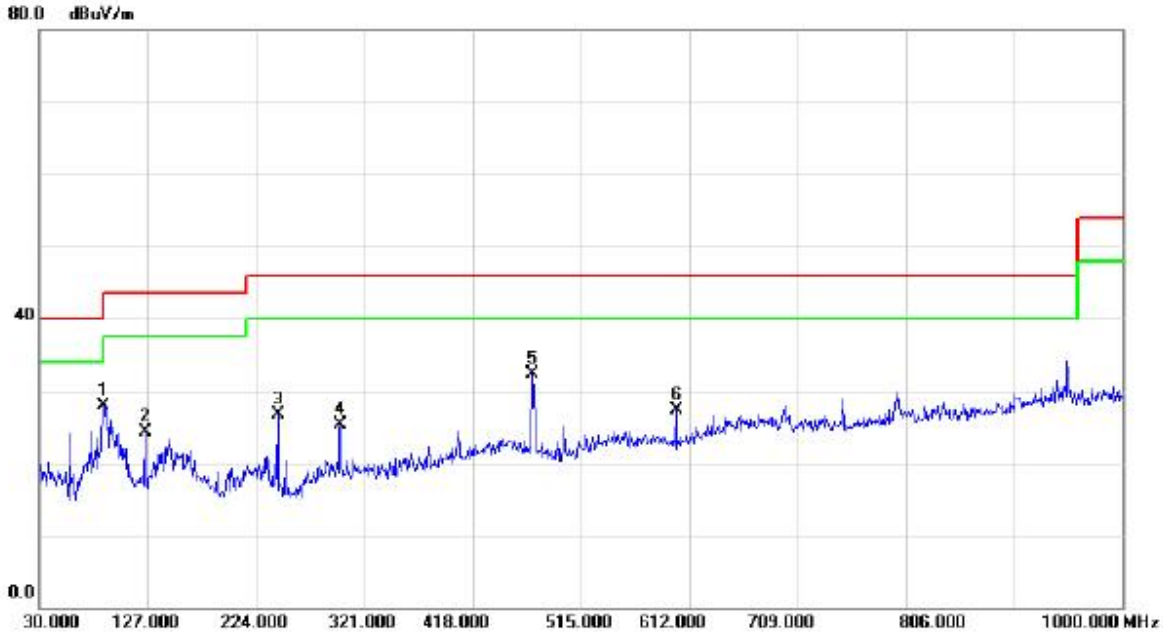
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0094	0°	13.41	24.97	38.38	128.11	-89.73	AVG
0.0094	0°	14.28	24.97	39.25	148.11	-108.86	PEAK
0.0228	0°	6.73	24.12	30.85	120.45	-89.59	AVG
0.0228	0°	8.12	24.12	32.24	140.45	-108.20	PEAK
0.0319	0°	3.17	23.55	26.72	117.53	-90.81	AVG
0.0319	0°	5.58	23.55	29.13	137.53	-108.40	PEAK
0.0423	0°	1.16	22.89	24.05	115.08	-91.03	AVG
0.0423	0°	2.53	22.89	25.42	135.08	-109.66	PEAK
0.4916	0°	19.36	19.82	39.18	73.77	-34.59	QP
1.7157	0°	23.71	19.53	43.24	69.54	-26.30	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0274	90°	13.15	23.83	36.98	118.85	-81.87	AVG
0.0274	90°	15.06	23.83	38.89	138.85	-99.96	PEAK
0.0396	90°	8.08	23.06	31.14	115.65	-84.51	AVG
0.0396	90°	9.84	23.06	32.90	135.65	-102.75	PEAK
0.0451	90°	5.62	22.71	28.33	114.52	-86.19	AVG
0.0451	90°	8.10	22.71	30.81	134.52	-103.71	PEAK
0.0695	90°	2.92	22.01	24.93	110.76	-85.83	AVG
0.0695	90°	4.94	22.01	26.95	130.76	-103.81	PEAK
1.7251	90°	24.62	19.53	44.15	69.54	-25.39	QP
3.5818	90°	26.15	18.96	45.11	69.54	-24.43	QP

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

Test Mode:	TX B MODE CHANNEL 01 - HDD model name: ST2000LM003

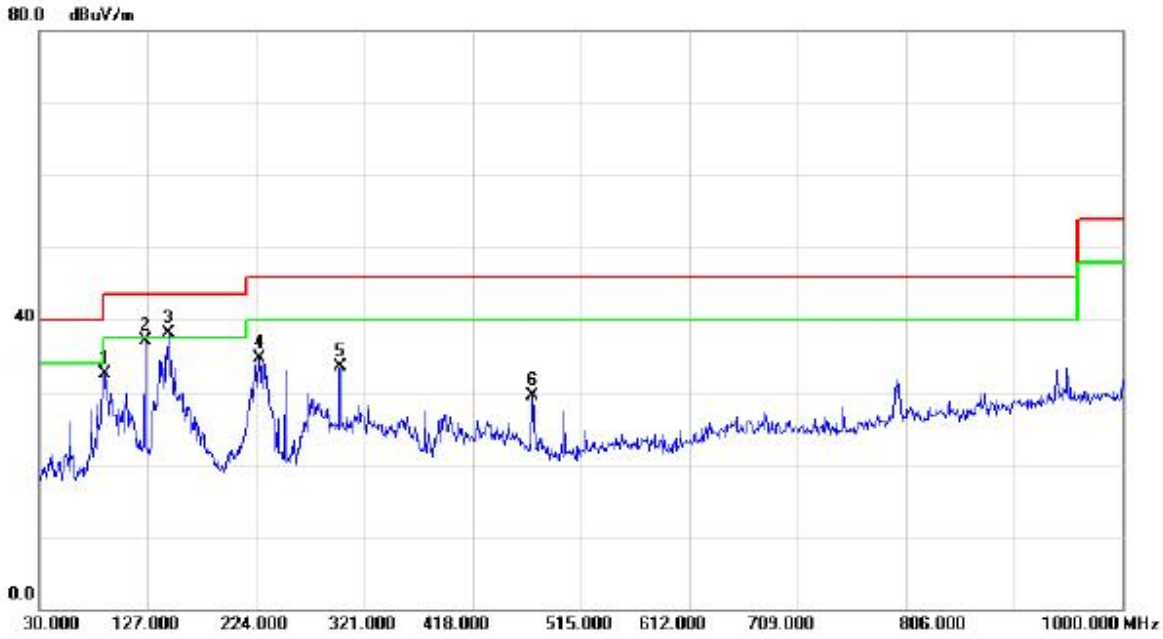
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	87.2300	43.88	-15.95	27.93	40.00	-12.07	peak	
2		125.0600	36.39	-12.02	24.37	43.50	-19.13	peak	
3		243.4000	39.22	-12.49	26.73	46.00	-19.27	peak	
4		299.6600	34.89	-9.59	25.30	46.00	-20.70	peak	
5		471.3500	38.87	-6.53	32.34	46.00	-13.66	peak	
6		600.3600	31.88	-4.62	27.26	46.00	-18.74	peak	

Test Mode:	TX B MODE CHANNEL 01 - HDD model name: ST2000LM003

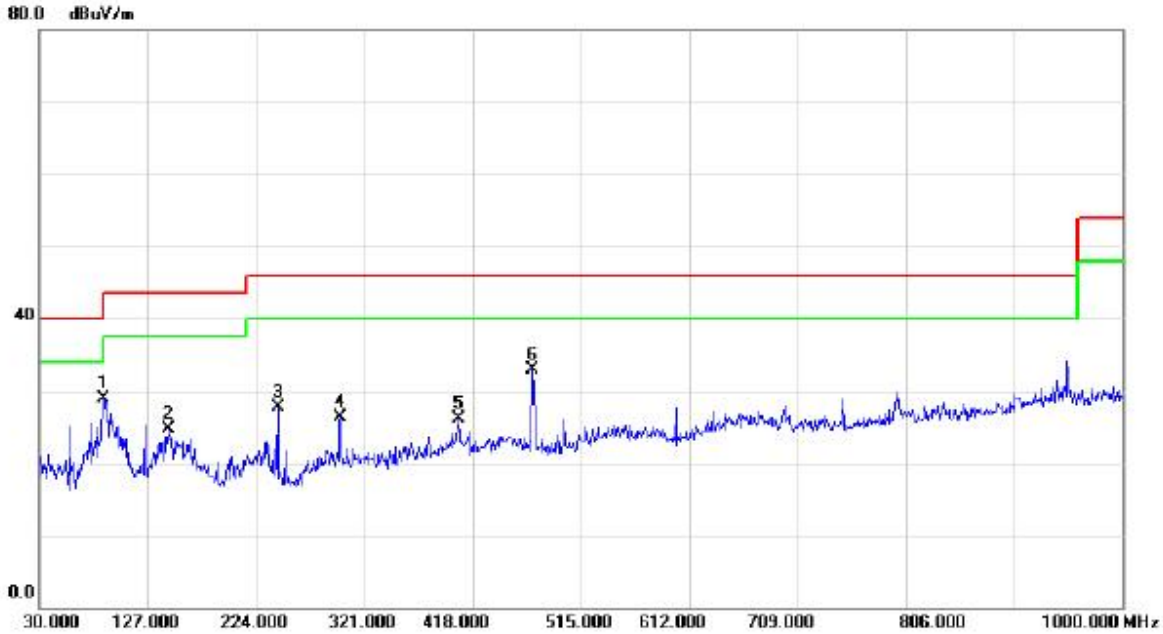
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		89.1700	48.44	-16.00	32.44	43.50	-11.06	peak	
2		125.0600	49.11	-12.02	37.09	43.50	-6.41	peak	
3	*	145.4300	49.61	-11.58	38.03	43.50	-5.47	peak	
4		226.9100	47.64	-12.96	34.68	46.00	-11.32	peak	
5		299.6600	43.01	-9.59	33.42	46.00	-12.58	peak	
6		471.3500	35.99	-6.53	29.46	46.00	-16.54	peak	

Test Mode:	TX B MODE CHANNEL 06 - HDD model name: ST2000LM003

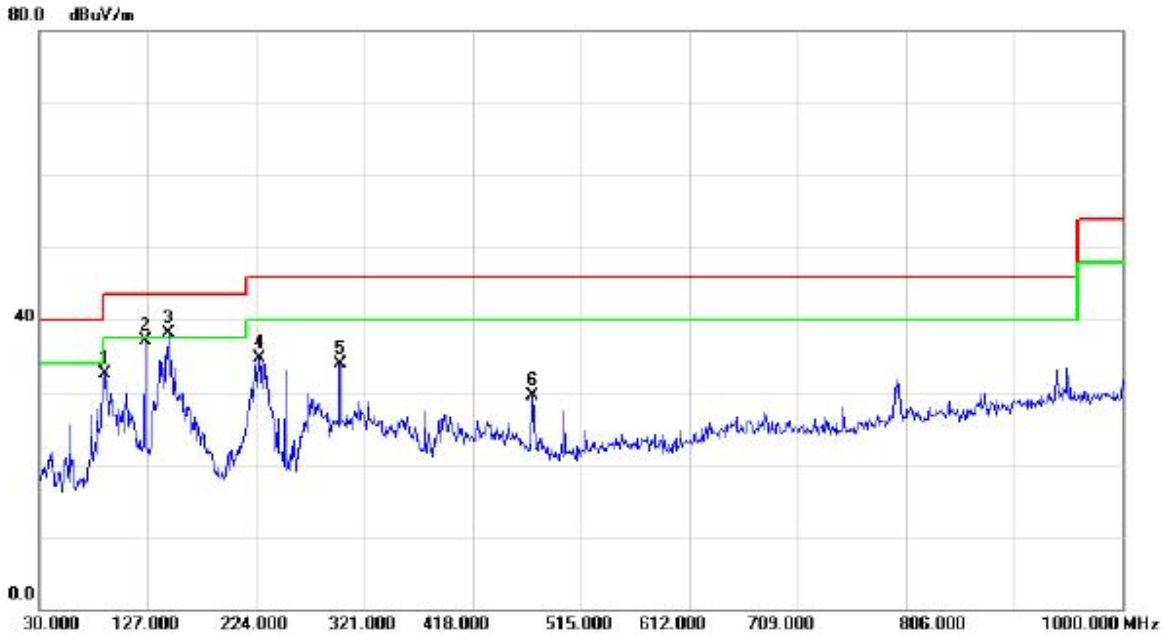
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	87.2300	44.88	-15.95	28.93	40.00	-11.07	peak	
2		145.4300	36.32	-11.58	24.74	43.50	-18.76	peak	
3		243.4000	40.22	-12.49	27.73	46.00	-18.27	peak	
4		299.6600	35.89	-9.59	26.30	46.00	-19.70	peak	
5		405.3900	33.14	-7.12	26.02	46.00	-19.98	peak	
6		471.3500	39.37	-6.53	32.84	46.00	-13.16	peak	

Test Mode:	TX B MODE CHANNEL 06 - HDD model name: ST2000LM003

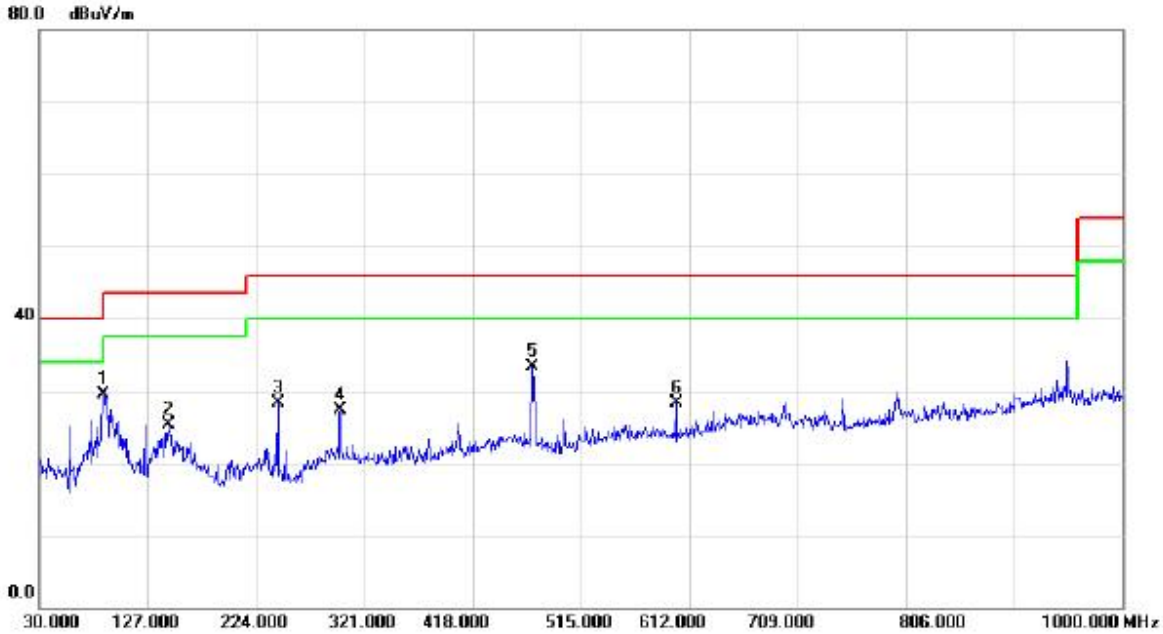
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		89.1700	48.44	-16.00	32.44	43.50	-11.06	peak	
2		125.0600	49.11	-12.02	37.09	43.50	-6.41	peak	
3	*	145.4300	49.61	-11.58	38.03	43.50	-5.47	peak	
4		226.9100	47.64	-12.96	34.68	46.00	-11.32	peak	
5		299.6600	43.51	-9.59	33.92	46.00	-12.08	peak	
6		471.3500	35.99	-6.53	29.46	46.00	-16.54	peak	

Test Mode:	TX B MODE CHANNEL 11 - HDD model name: ST2000LM003

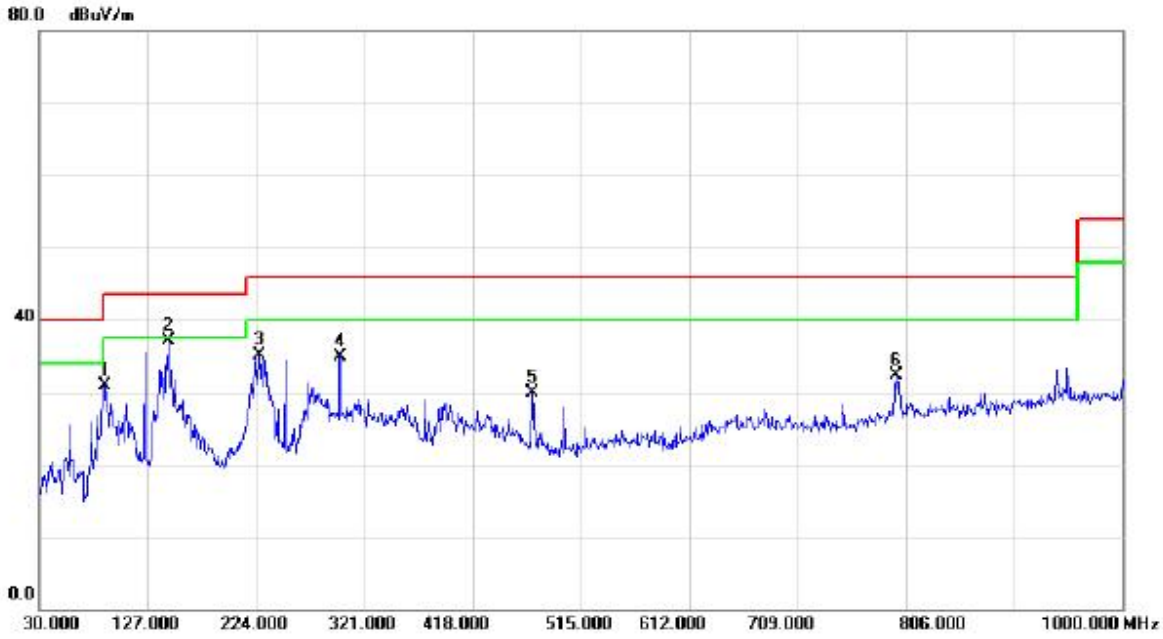
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	87.2300	45.38	-15.95	29.43	40.00	-10.57	peak	
2		145.4300	36.82	-11.58	25.24	43.50	-18.26	peak	
3		243.4000	40.72	-12.49	28.23	46.00	-17.77	peak	
4		299.6600	36.89	-9.59	27.30	46.00	-18.70	peak	
5		471.3500	39.87	-6.53	33.34	46.00	-12.66	peak	
6		600.3600	32.88	-4.62	28.26	46.00	-17.74	peak	

Test Mode:	TX B MODE CHANNEL 11 - HDD model name: ST2000LM003

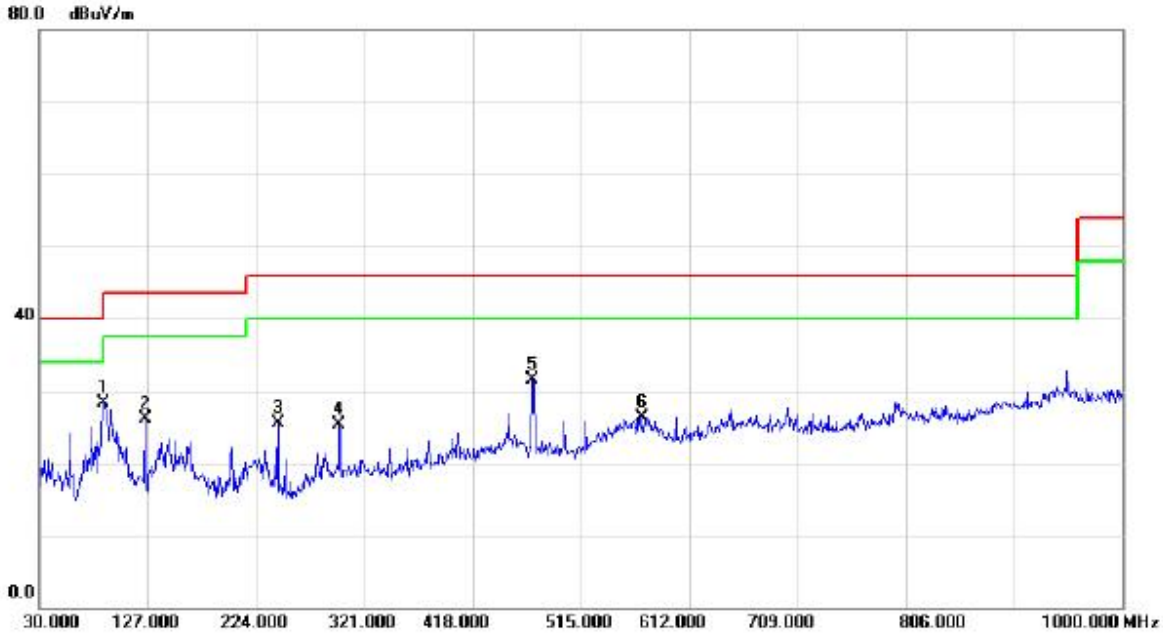
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		89.1700	46.94	-16.00	30.94	43.50	-12.56	peak	
2	*	145.4300	48.61	-11.58	37.03	43.50	-6.47	peak	
3		226.9100	48.14	-12.96	35.18	46.00	-10.82	peak	
4		299.6600	44.51	-9.59	34.92	46.00	-11.08	peak	
5		471.3500	36.49	-6.53	29.96	46.00	-16.04	peak	
6		797.2700	32.21	0.08	32.29	46.00	-13.71	peak	

Test Mode:	TX B MODE CHANNEL 01 - HDD model name: ST1000LM024

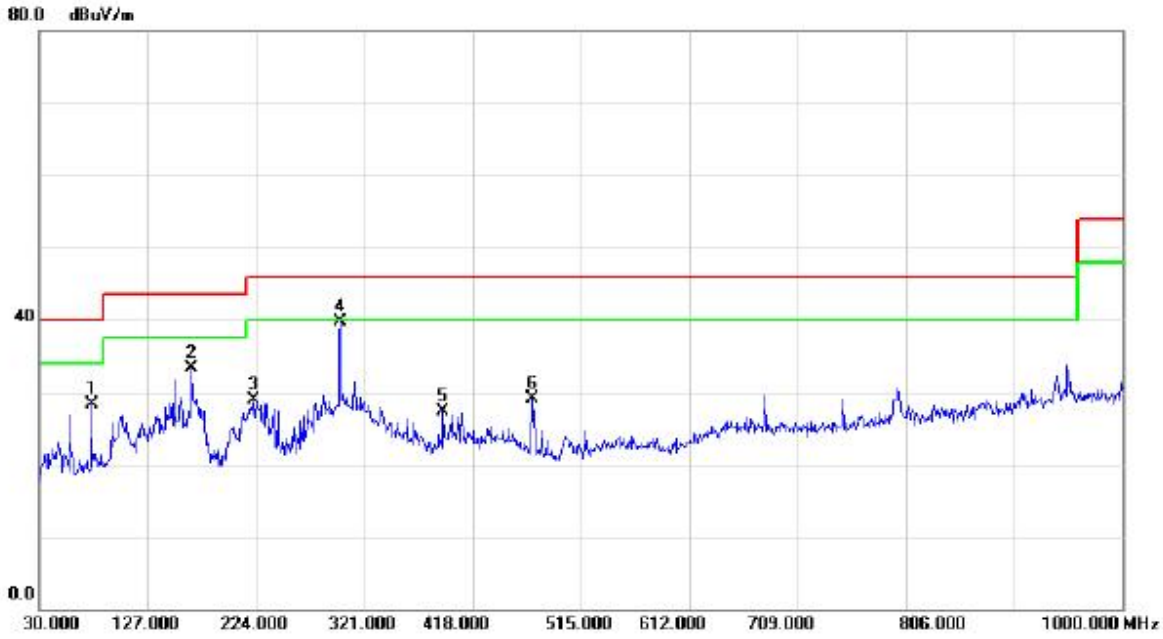
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	87.2300	44.31	-15.95	28.36	40.00	-11.64	peak	
2		125.0600	38.10	-12.02	26.08	43.50	-17.42	peak	
3		243.4000	38.08	-12.49	25.59	46.00	-20.41	peak	
4		298.6900	34.85	-9.62	25.23	46.00	-20.77	peak	
5		471.3500	38.02	-6.53	31.49	46.00	-14.51	peak	
6		570.2900	30.94	-4.62	26.32	46.00	-19.68	peak	

Test Mode:	TX B MODE CHANNEL 01 - HDD model name: ST1000LM024

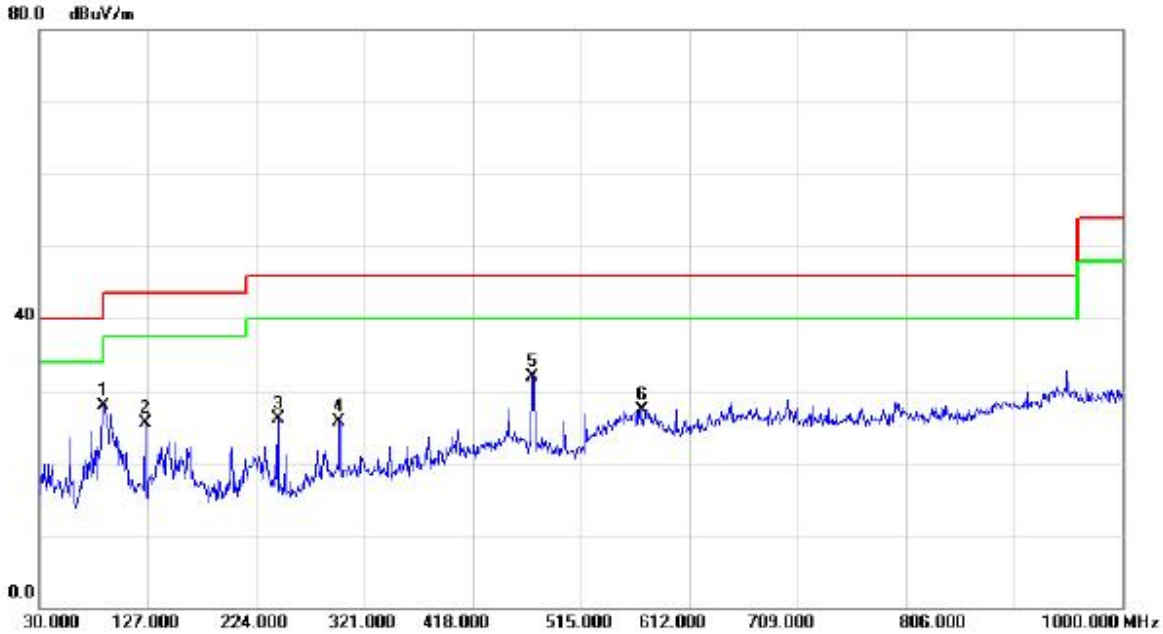
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		76.5600	43.74	-15.40	28.34	40.00	-11.66	peak	
2		166.7700	44.79	-11.49	33.30	43.50	-10.20	peak	
3		222.0600	42.21	-13.26	28.95	46.00	-17.05	peak	
4	*	299.6600	49.26	-9.59	39.67	46.00	-6.33	peak	
5		391.8100	34.98	-7.70	27.28	46.00	-18.72	peak	
6		471.3500	35.59	-6.53	29.06	46.00	-16.94	peak	

Test Mode:	TX B MODE CHANNEL 06 - HDD model name: ST1000LM024

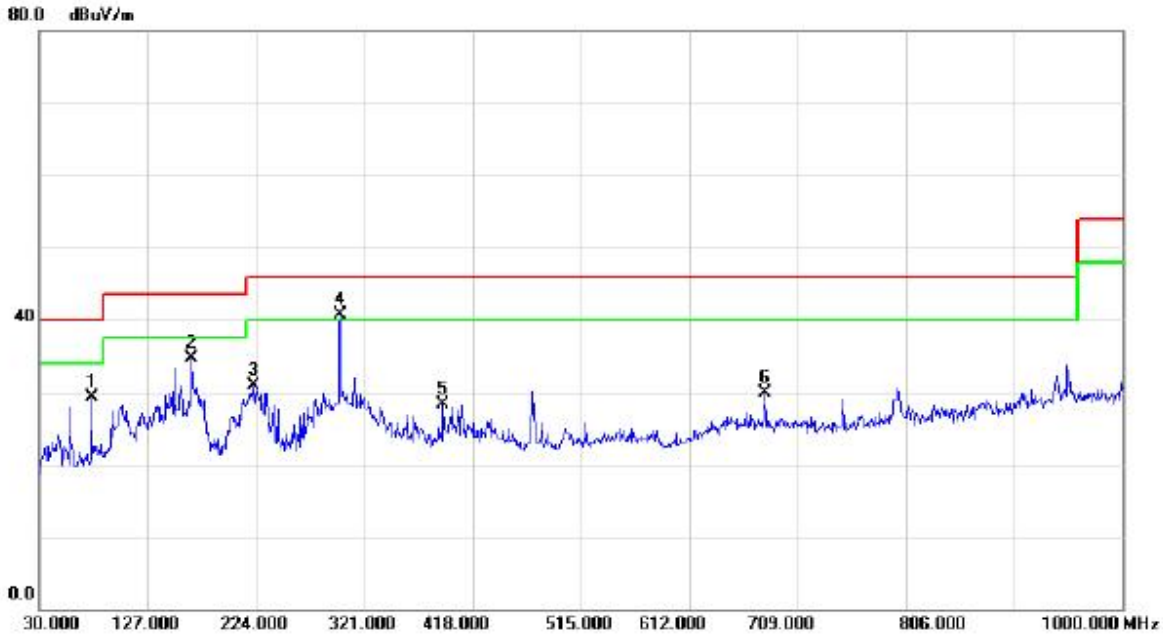
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	87.2300	43.81	-15.95	27.86	40.00	-12.14	peak	
2		125.0600	37.60	-12.02	25.58	43.50	-17.92	peak	
3		243.4000	38.58	-12.49	26.09	46.00	-19.91	peak	
4		298.6900	35.35	-9.62	25.73	46.00	-20.27	peak	
5		471.3500	38.52	-6.53	31.99	46.00	-14.01	peak	
6		570.2900	31.94	-4.62	27.32	46.00	-18.68	peak	

Test Mode:	TX B MODE CHANNEL 06 - HDD model name: ST1000LM024

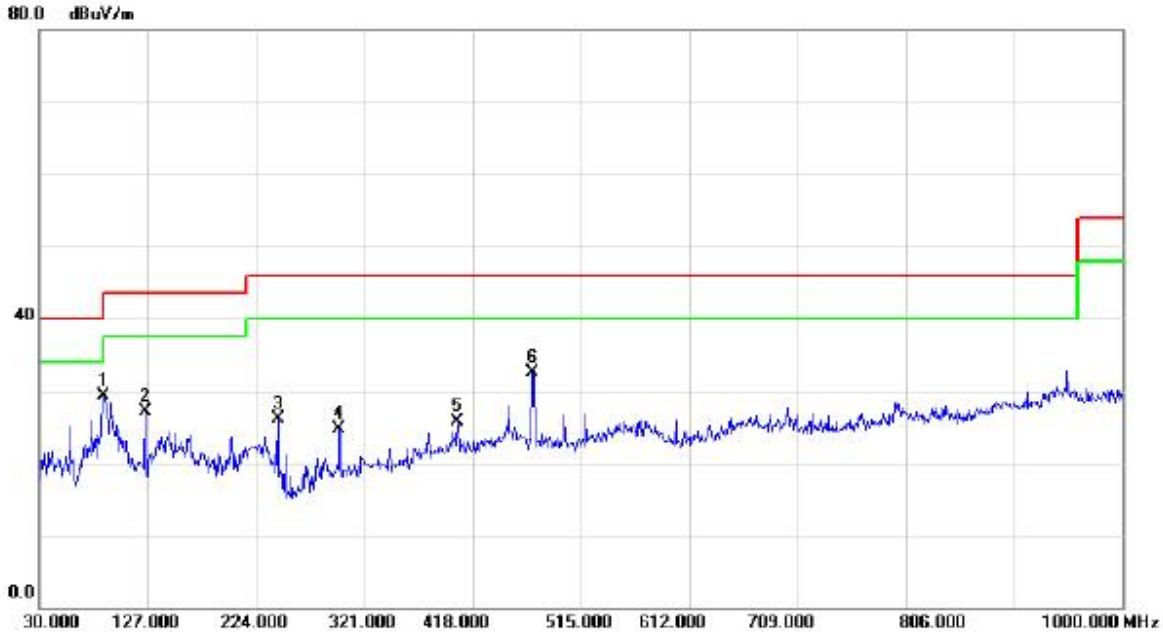
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		76.5600	44.74	-15.40	29.34	40.00	-10.66	peak	
2		166.7700	46.29	-11.49	34.80	43.50	-8.70	peak	
3		222.0600	44.21	-13.26	30.95	46.00	-15.05	peak	
4	*	299.6600	50.26	-9.59	40.67	46.00	-5.33	peak	
5		391.8100	35.98	-7.70	28.28	46.00	-17.72	peak	
6		679.9000	31.50	-1.54	29.96	46.00	-16.04	peak	

Test Mode:	TX B MODE CHANNEL 11 - HDD model name: ST1000LM024

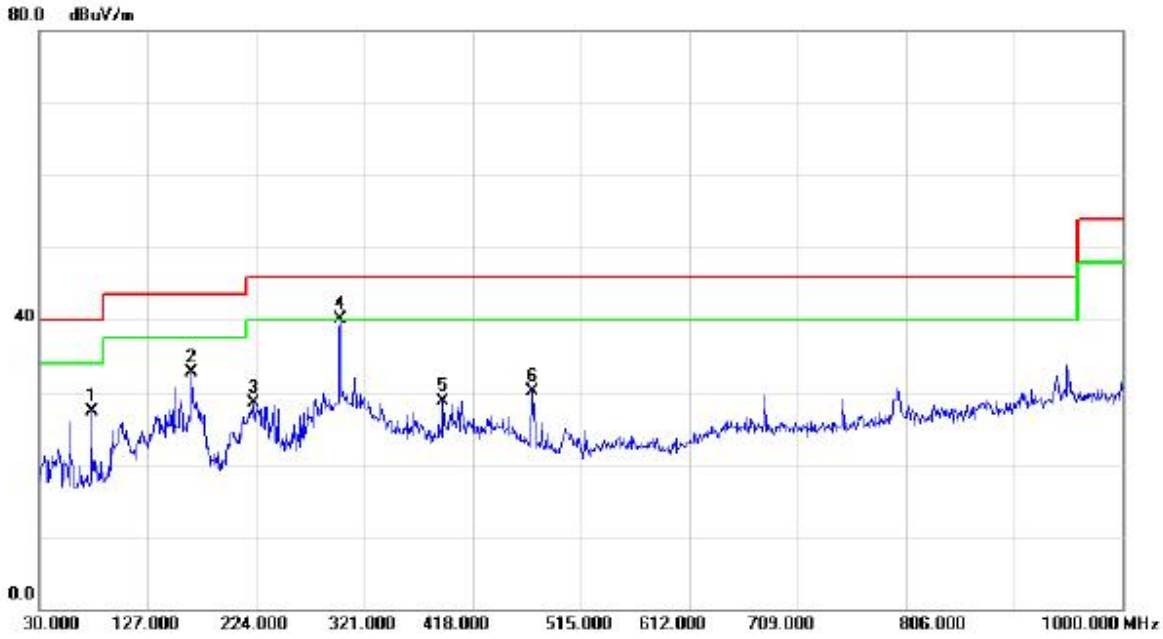
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	87.2300	45.31	-15.95	29.36	40.00	-10.64	peak	
2		125.0600	39.10	-12.02	27.08	43.50	-16.42	peak	
3		243.4000	38.58	-12.49	26.09	46.00	-19.91	peak	
4		298.6900	34.35	-9.62	24.73	46.00	-21.27	peak	
5		404.4200	32.78	-7.14	25.64	46.00	-20.36	peak	
6		471.3500	39.02	-6.53	32.49	46.00	-13.51	peak	

Test Mode:	TX B MODE CHANNEL 11 - HDD model name: ST1000LM024

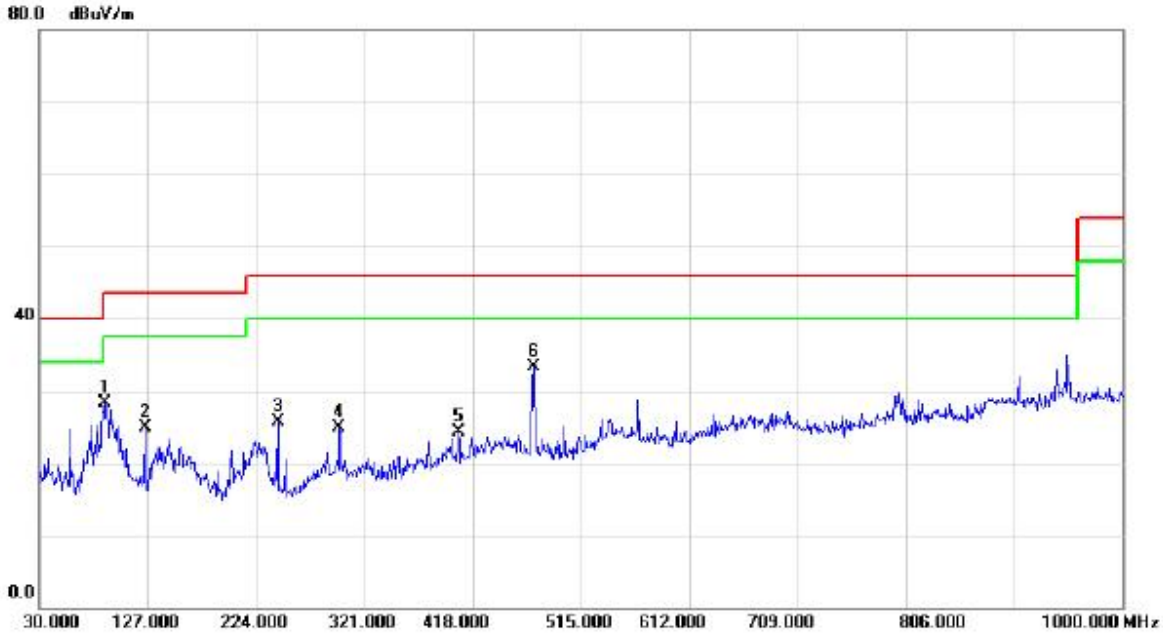
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		76.5600	42.74	-15.40	27.34	40.00	-12.66	peak	
2		166.7700	44.29	-11.49	32.80	43.50	-10.70	peak	
3		222.0600	41.71	-13.26	28.45	46.00	-17.55	peak	
4	*	299.6600	49.76	-9.59	40.17	46.00	-5.83	peak	
5		391.8100	36.48	-7.70	28.78	46.00	-17.22	peak	
6		471.3500	36.59	-6.53	30.06	46.00	-15.94	peak	

Test Mode:	TX B MODE CHANNEL 01 - HDD model name: HTS541010A9E680

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		89.1700	44.39	-16.00	28.39	43.50	-15.11	peak	
2		125.0600	36.98	-12.02	24.96	43.50	-18.54	peak	
3		243.4000	38.11	-12.49	25.62	46.00	-20.38	peak	
4		298.6900	34.54	-9.62	24.92	46.00	-21.08	peak	
5		405.3900	31.47	-7.12	24.35	46.00	-21.65	peak	
6	*	473.2900	39.85	-6.60	33.25	46.00	-12.75	peak	

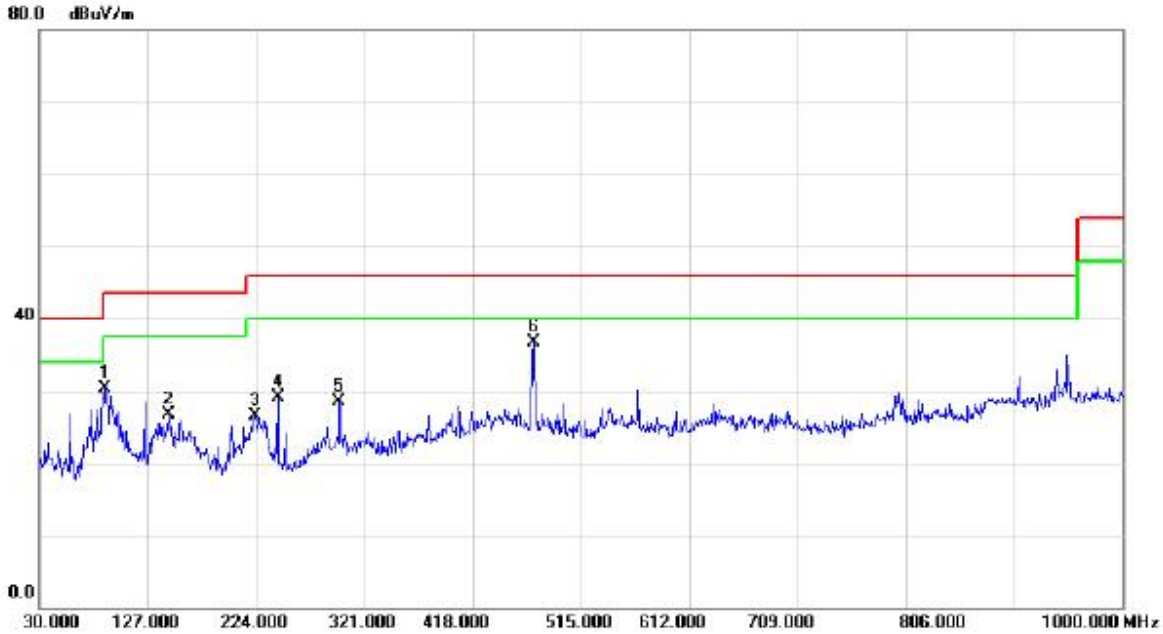
Test Mode:	TX B MODE CHANNEL 01 - HDD model name: HTS541010A9E680

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		89.1700	45.71	-16.00	29.71	43.50	-13.79	peak	
2	*	145.4300	45.59	-11.58	34.01	43.50	-9.49	peak	
3		231.7600	45.74	-12.70	33.04	46.00	-12.96	peak	
4		299.6600	43.28	-9.59	33.69	46.00	-12.31	peak	
5		399.5700	40.14	-7.28	32.86	46.00	-13.14	peak	
6		471.3500	33.97	-6.53	27.44	46.00	-18.56	peak	

Test Mode:	TX B MODE CHANNEL 06 - HDD model name: HTS541010A9E680

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		89.1700	46.39	-16.00	30.39	43.50	-13.11	peak	
2		145.4300	38.32	-11.58	26.74	43.50	-16.76	peak	
3		223.0300	39.63	-13.20	26.43	46.00	-19.57	peak	
4		243.4000	41.61	-12.49	29.12	46.00	-16.88	peak	
5		298.6900	38.04	-9.62	28.42	46.00	-17.58	peak	
6	*	473.2900	43.36	-6.60	36.76	46.00	-9.24	peak	

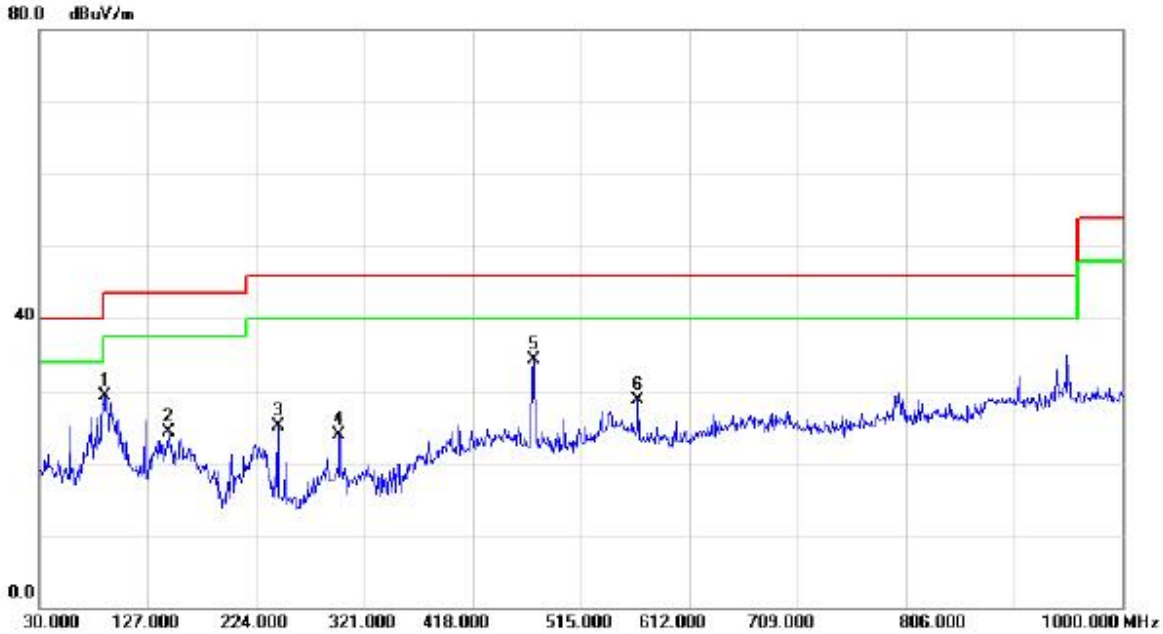
Test Mode:	TX B MODE CHANNEL 06 - HDD model name: HTS541010A9E680

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		89.1700	48.21	-16.00	32.21	43.50	-11.29	peak	
2	*	145.4300	48.09	-11.58	36.51	43.50	-6.99	peak	
3		231.7600	48.24	-12.70	35.54	46.00	-10.46	peak	
4		276.3800	47.63	-11.32	36.31	46.00	-9.69	peak	
5		299.6600	47.28	-9.59	37.69	46.00	-8.31	peak	
6		399.5700	42.14	-7.28	34.86	46.00	-11.14	peak	

Test Mode:	TX B MODE CHANNEL 11 - HDD model name: HTS541010A9E680

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		89.1700	45.39	-16.00	29.39	43.50	-14.11	peak	
2		145.4300	35.82	-11.58	24.24	43.50	-19.26	peak	
3		243.4000	37.61	-12.49	25.12	46.00	-20.88	peak	
4		298.6900	33.54	-9.62	23.92	46.00	-22.08	peak	
5	*	473.2900	40.86	-6.60	34.26	46.00	-11.74	peak	
6		566.4100	33.33	-4.63	28.70	46.00	-17.30	peak	

Test Mode:	TX B MODE CHANNEL 11 - HDD model name: HTS541010A9E680

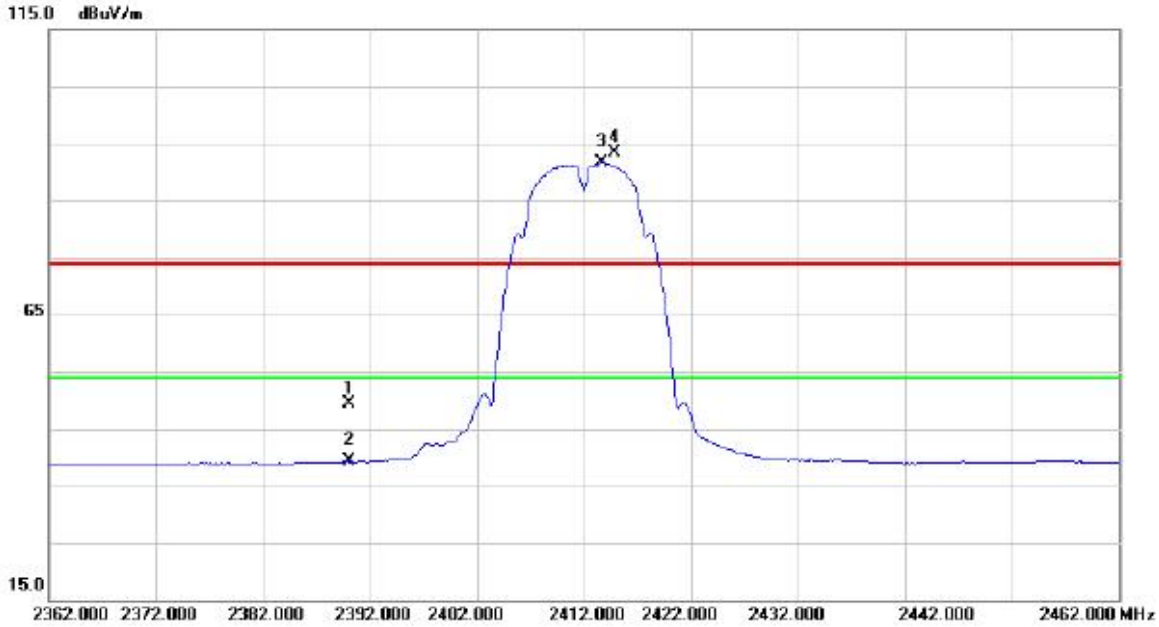
Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		89.1700	47.21	-16.00	31.21	43.50	-12.29	peak	
2	*	145.4300	47.09	-11.58	35.51	43.50	-7.99	peak	
3		231.7600	47.74	-12.70	35.04	46.00	-10.96	peak	
4		276.3800	45.13	-11.32	33.81	46.00	-12.19	peak	
5		399.5700	38.64	-7.28	31.36	46.00	-14.64	peak	
6		796.3000	31.91	0.04	31.95	46.00	-14.05	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	13.56	35.88	49.44	74.00	-24.56	peak	
2		2390.000	3.39	35.88	39.27	54.00	-14.73	AVG	
3	*	2413.700	55.54	36.01	91.55	54.00	37.55	AVG	NO limit
4	X	2414.800	57.45	36.01	93.46	74.00	19.46	peak	NO limit

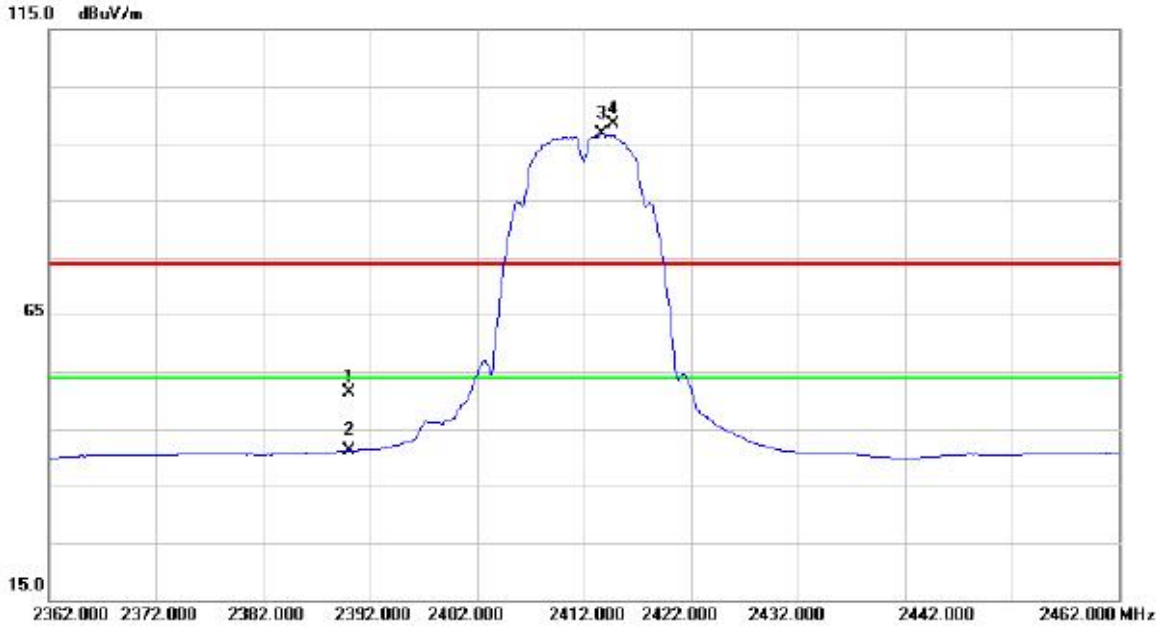
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.860	38.66	5.71	44.37	74.00	-29.63	peak	
2	*	4824.020	37.17	5.71	42.88	54.00	-11.12	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	15.62	35.88	51.50	74.00	-22.50	peak	
2		2390.000	5.30	35.88	41.18	54.00	-12.82	AVG	
3	*	2413.700	60.53	36.01	96.54	54.00	42.54	AVG	NO limit
4	X	2414.700	62.46	36.01	98.47	74.00	24.47	peak	NO limit

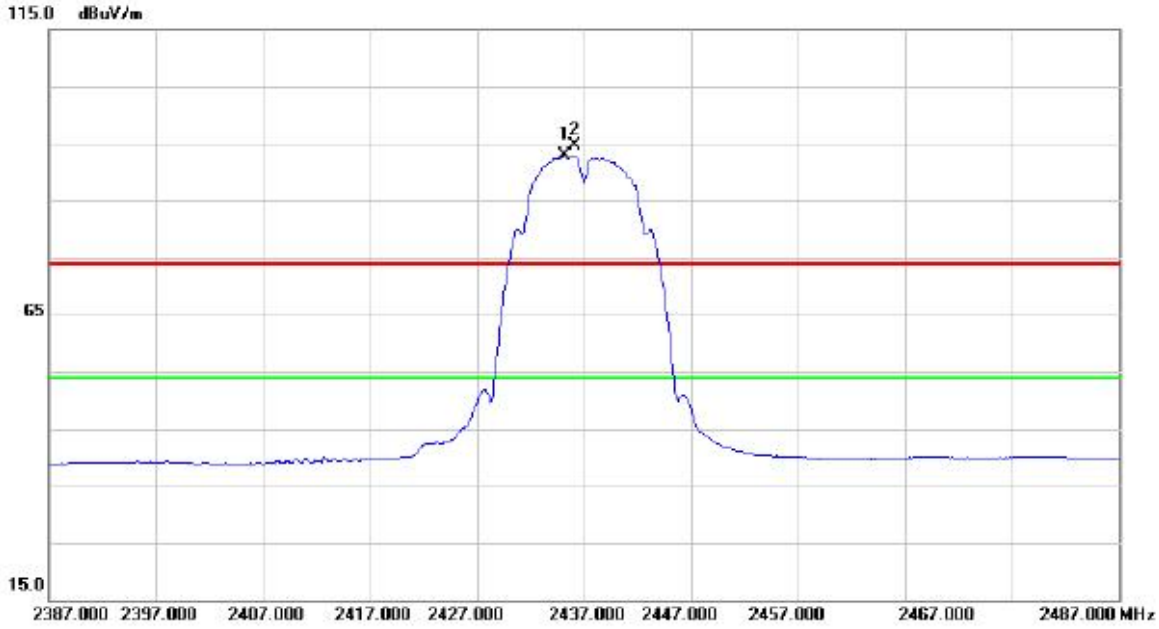
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.000	36.09	5.71	41.80	54.00	-12.20	AVG	
2		4824.140	38.43	5.71	44.14	74.00	-29.86	peak	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2435.200	56.72	36.13	92.85	54.00	38.85	AVG	NO limit
2	X	2436.200	58.59	36.13	94.72	74.00	20.72	peak	NO limit

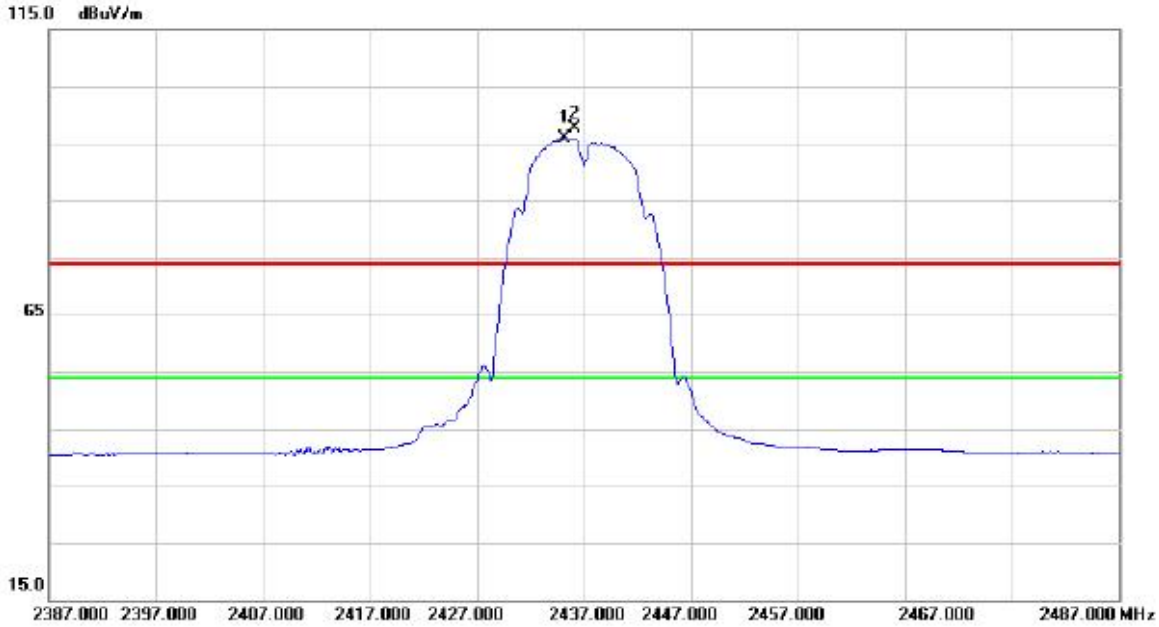
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.960	37.93	5.72	43.65	74.00	-30.35	peak	
2	*	4874.020	35.76	5.72	41.48	54.00	-12.52	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2435.200	59.82	36.13	95.95	54.00	41.95	AVG	NO limit
2	X	2436.200	61.57	36.13	97.70	74.00	23.70	peak	NO limit

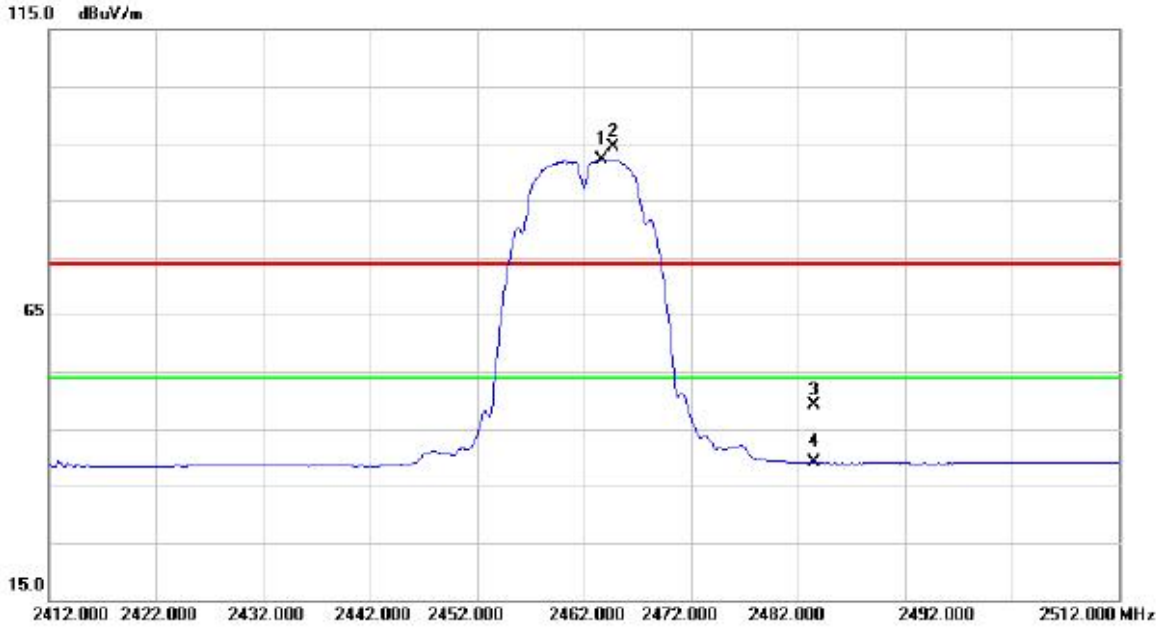
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.980	34.80	5.72	40.52	74.00	-33.48	peak	
2	*	4874.000	31.79	5.72	37.51	54.00	-16.49	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2463.700	55.95	36.28	92.23	54.00	38.23	AVG	NO limit
2	X	2464.700	58.13	36.28	94.41	74.00	20.41	peak	NO limit
3		2483.500	12.67	36.39	49.06	74.00	-24.94	peak	
4		2483.500	2.68	36.39	39.07	54.00	-14.93	AVG	

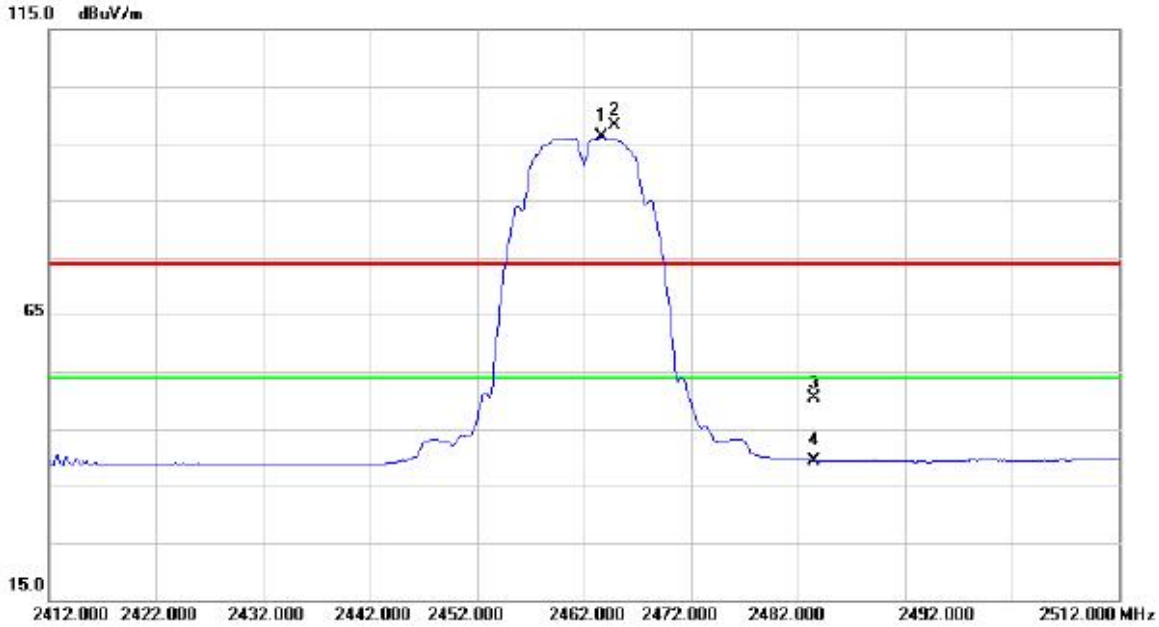
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.960	38.18	5.74	43.92	74.00	-30.08	peak	
2	*	4924.000	34.13	5.74	39.87	54.00	-14.13	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2463.700	59.84	36.28	96.12	54.00	42.12	AVG	NO limit
2	X	2464.800	61.88	36.28	98.16	74.00	24.16	peak	NO limit
3		2483.500	14.02	36.39	50.41	74.00	-23.59	peak	
4		2483.500	3.09	36.39	39.48	54.00	-14.52	AVG	

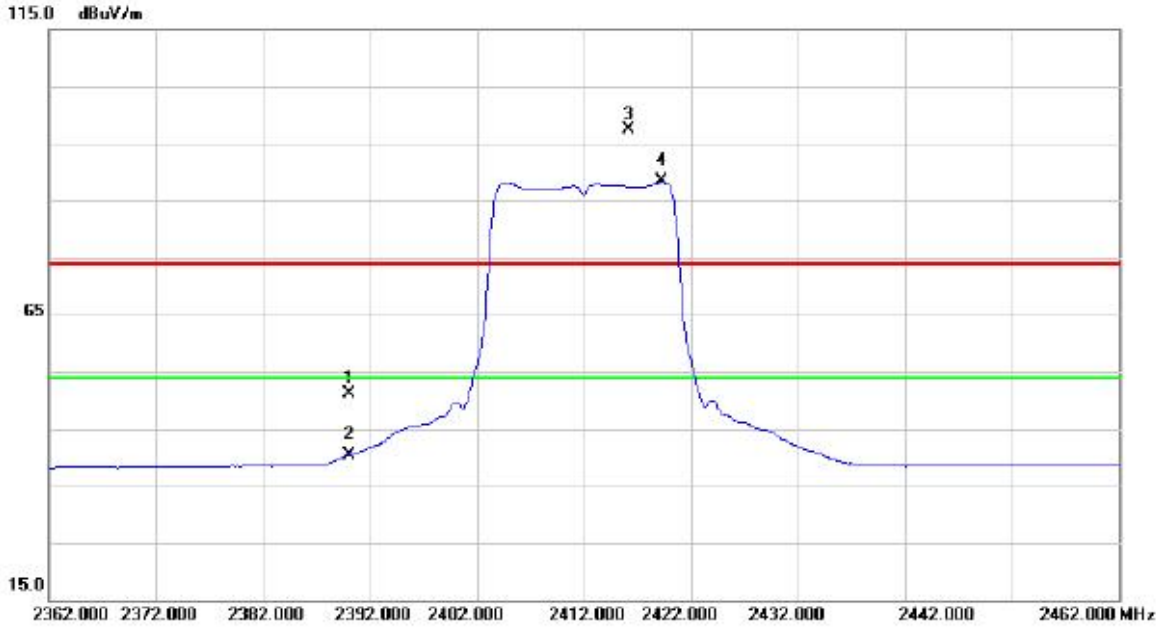
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.780	34.73	5.74	40.47	74.00	-33.53	peak	
2	*	4924.000	30.84	5.74	36.58	54.00	-17.42	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	15.36	35.88	51.24	74.00	-22.76	peak	
2		2390.000	4.47	35.88	40.35	54.00	-13.65	AVG	
3	X	2416.185	61.40	36.02	97.42	74.00	23.42	peak	NO limit
4	*	2419.300	52.25	36.04	88.29	54.00	34.29	AVG	NO limit

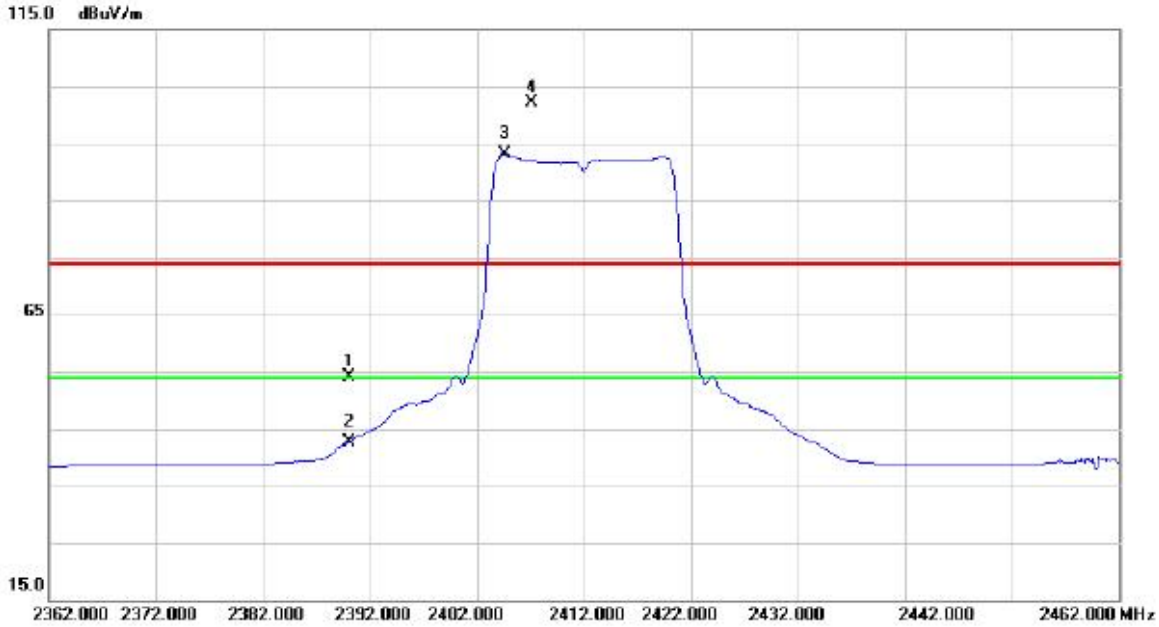
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.100	27.69	5.71	33.40	54.00	-20.60	AVG	
2		4824.150	38.31	5.71	44.02	74.00	-29.98	peak	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	18.34	35.88	54.22	74.00	-19.78	peak	
2		2390.000	6.76	35.88	42.64	54.00	-11.36	AVG	
3	*	2404.600	57.22	35.95	93.17	54.00	39.17	AVG	NO limit
4	X	2407.200	66.09	35.98	102.07	74.00	28.07	peak	NO limit

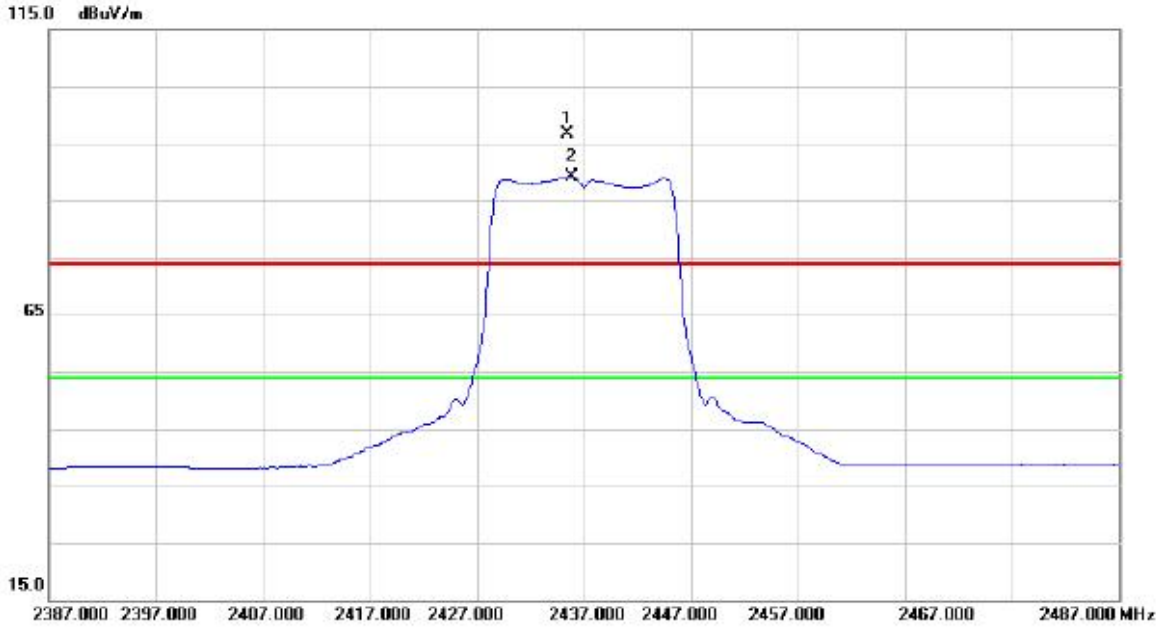
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.050	35.99	5.71	41.70	74.00	-32.30	peak	
2	*	4824.050	25.82	5.71	31.53	54.00	-22.47	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2435.500	60.40	36.13	96.53	74.00	22.53	peak	NO limit
2	*	2435.800	52.91	36.13	89.04	54.00	35.04	AVG	NO limit

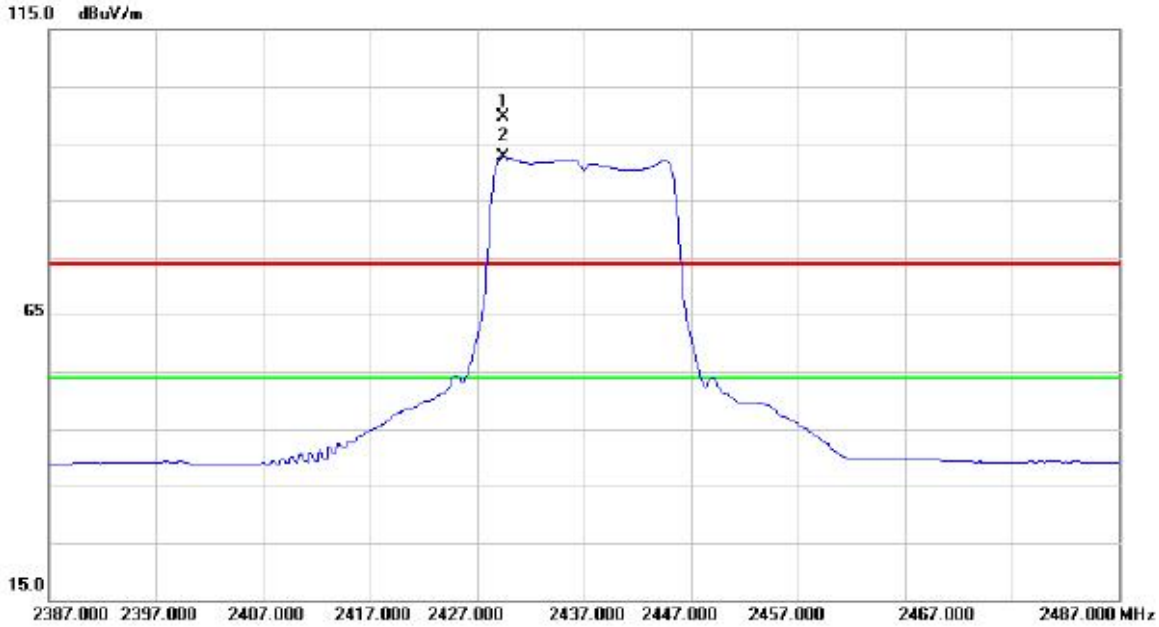
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.050	26.50	5.72	32.22	54.00	-21.78	AVG	
2		4874.350	36.37	5.72	42.09	74.00	-31.91	peak	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2429.500	63.58	36.10	99.68	74.00	25.68	peak	NO limit
2	*	2429.500	56.43	36.10	92.53	54.00	38.53	AVG	NO limit

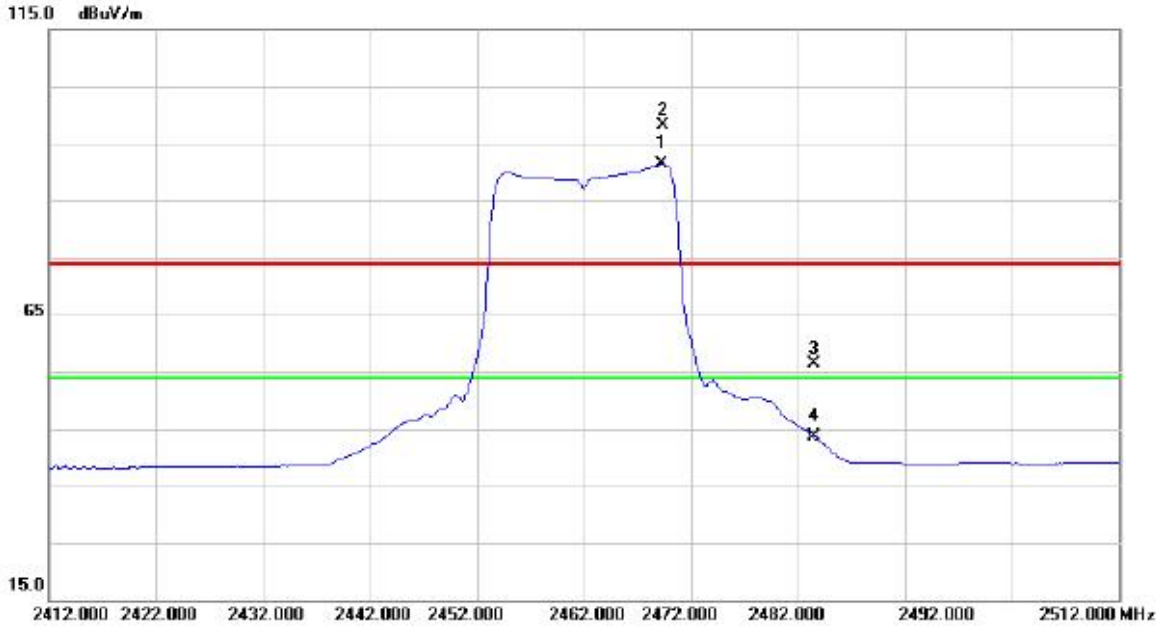
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.700	34.55	5.72	40.27	74.00	-33.73	peak	
2	*	4874.050	24.43	5.72	30.15	54.00	-23.85	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2469.300	55.04	36.32	91.36	54.00	37.36	AVG	NO limit
2	X	2469.400	61.90	36.32	98.22	74.00	24.22	peak	NO limit
3		2483.500	20.02	36.39	56.41	74.00	-17.59	peak	
4		2483.500	7.16	36.39	43.55	54.00	-10.45	AVG	

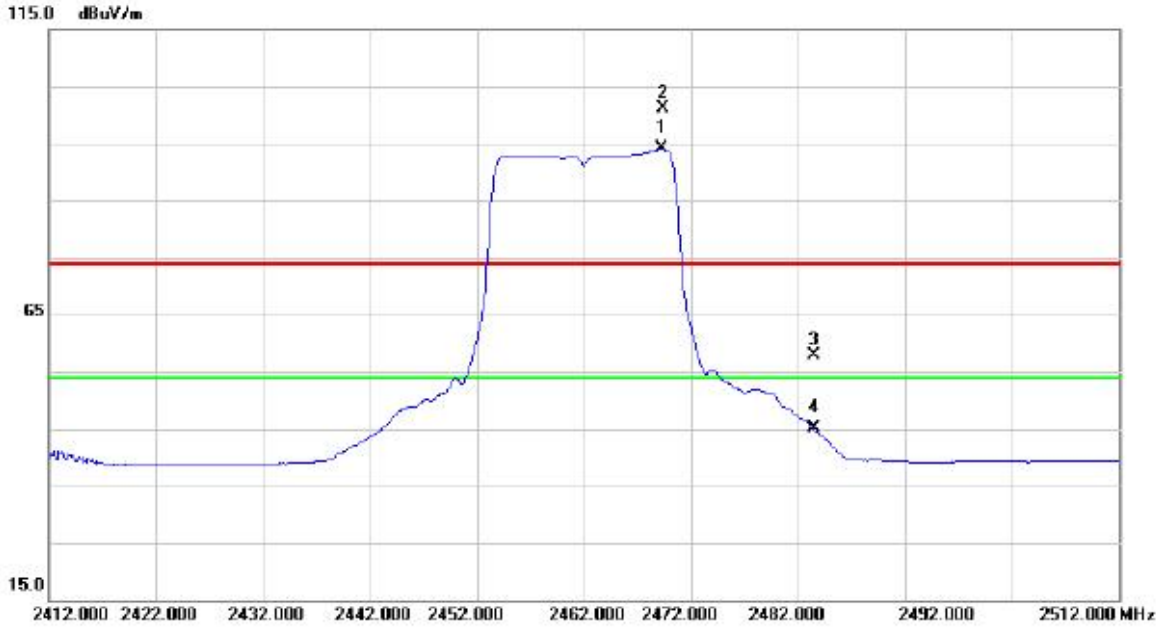
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.100	26.35	5.74	32.09	54.00	-21.91	AVG	
2		4924.150	36.91	5.74	42.65	74.00	-31.35	peak	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2469.300	57.84	36.32	94.16	54.00	40.16	AVG	NO limit
2	X	2469.400	64.72	36.32	101.04	74.00	27.04	peak	NO limit
3		2483.500	21.48	36.39	57.87	74.00	-16.13	peak	
4		2483.500	8.63	36.39	45.02	54.00	-8.98	AVG	

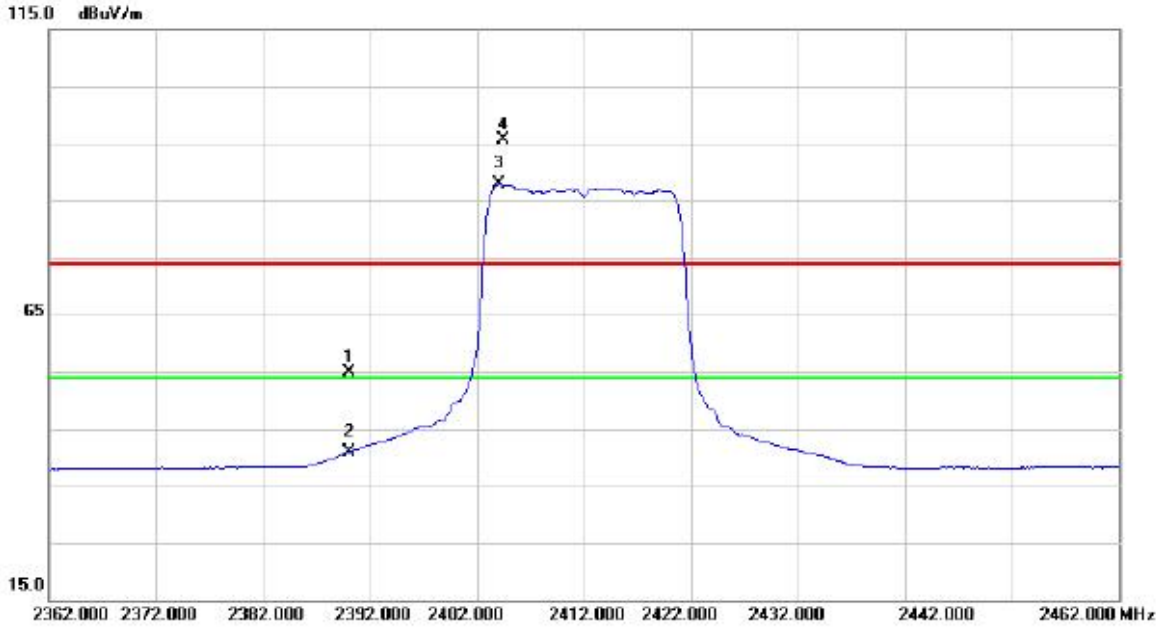
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.150	24.44	5.74	30.18	54.00	-23.82	AVG	
2		4924.700	35.96	5.74	41.70	74.00	-32.30	peak	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	19.11	35.88	54.99	74.00	-19.01	peak	
2		2390.000	5.07	35.88	40.95	54.00	-13.05	AVG	
3	*	2404.100	51.84	35.95	87.79	54.00	33.79	AVG	NO limit
4	X	2404.500	59.71	35.95	95.66	74.00	21.66	peak	NO limit

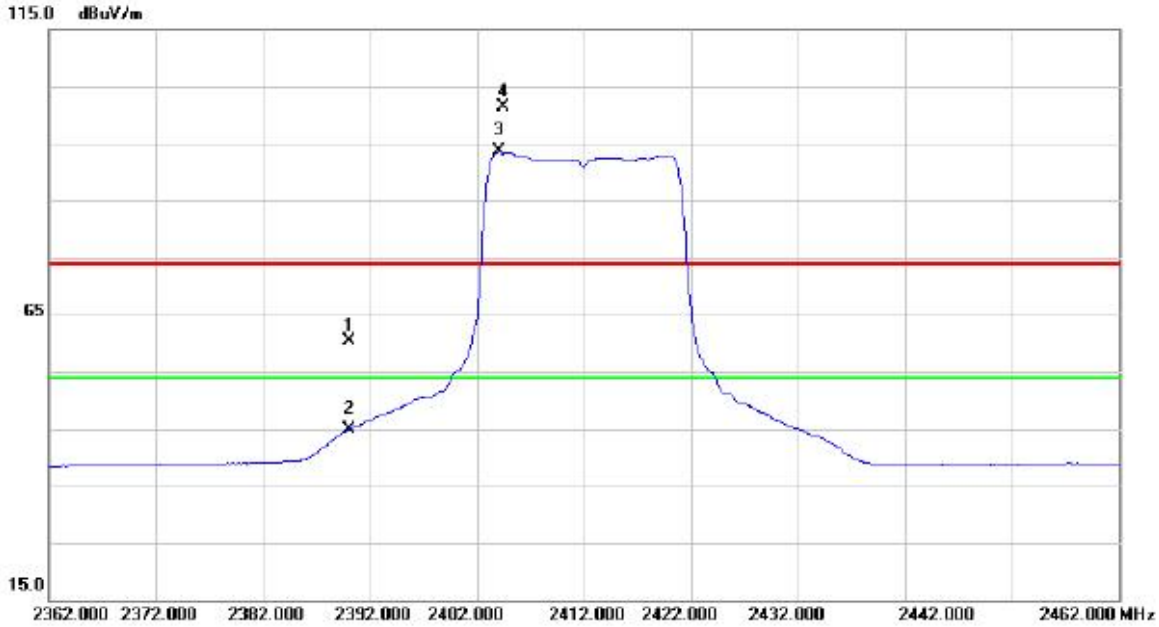
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.000	26.41	5.71	32.12	54.00	-21.88	AVG	
2		4824.600	36.84	5.71	42.55	74.00	-31.45	peak	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.56	35.88	60.44	74.00	-13.56	peak	
2		2390.000	9.04	35.88	44.92	54.00	-9.08	AVG	
3	*	2404.100	57.60	35.95	93.55	54.00	39.55	AVG	NO limit
4	X	2404.500	65.53	35.95	101.48	74.00	27.48	peak	NO limit

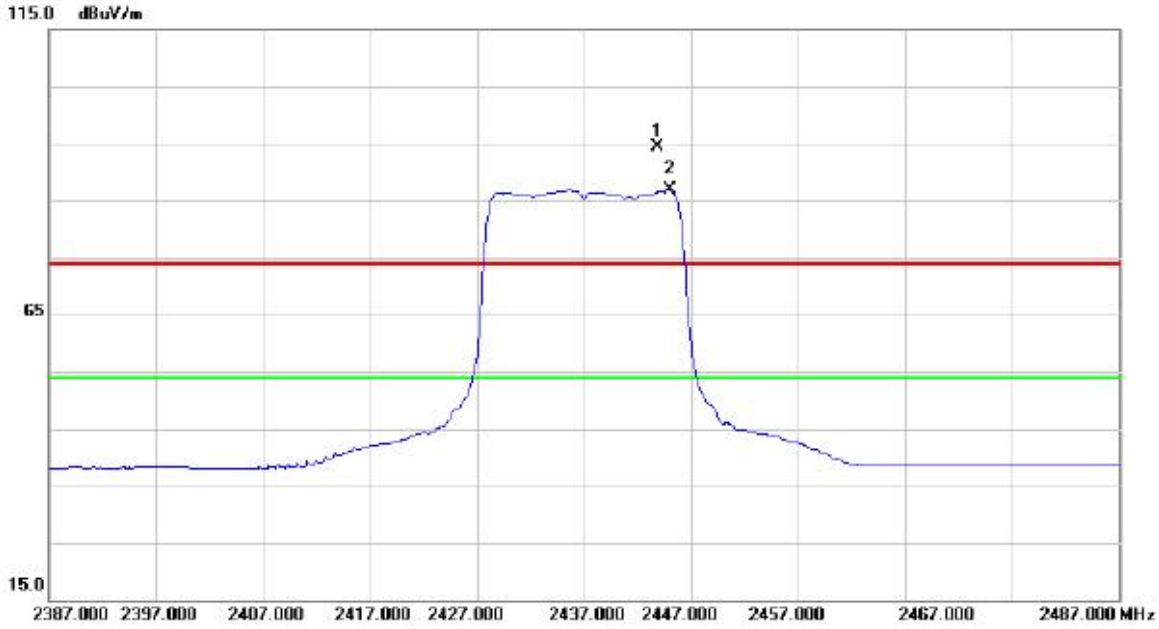
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	36.31	5.71	42.02	74.00	-31.98	peak	
2	*	4824.000	26.08	5.71	31.79	54.00	-22.21	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2443.840	58.22	36.17	94.39	74.00	20.39	peak	NO limit
2	*	2445.000	50.65	36.18	86.83	54.00	32.83	AVG	NO limit

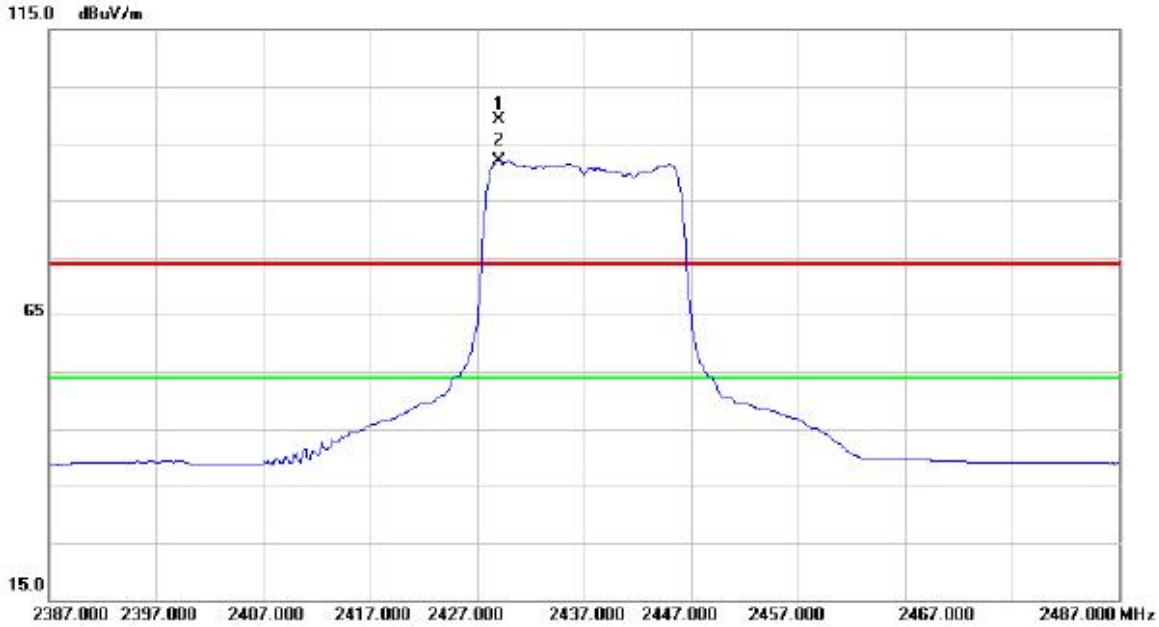
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.000	25.30	5.72	31.02	54.00	-22.98	AVG	
2		4874.550	35.76	5.72	41.48	74.00	-32.52	peak	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2429.000	62.96	36.09	99.05	74.00	25.05	peak	NO limit
2	*	2429.100	55.88	36.10	91.98	54.00	37.98	AVG	NO limit

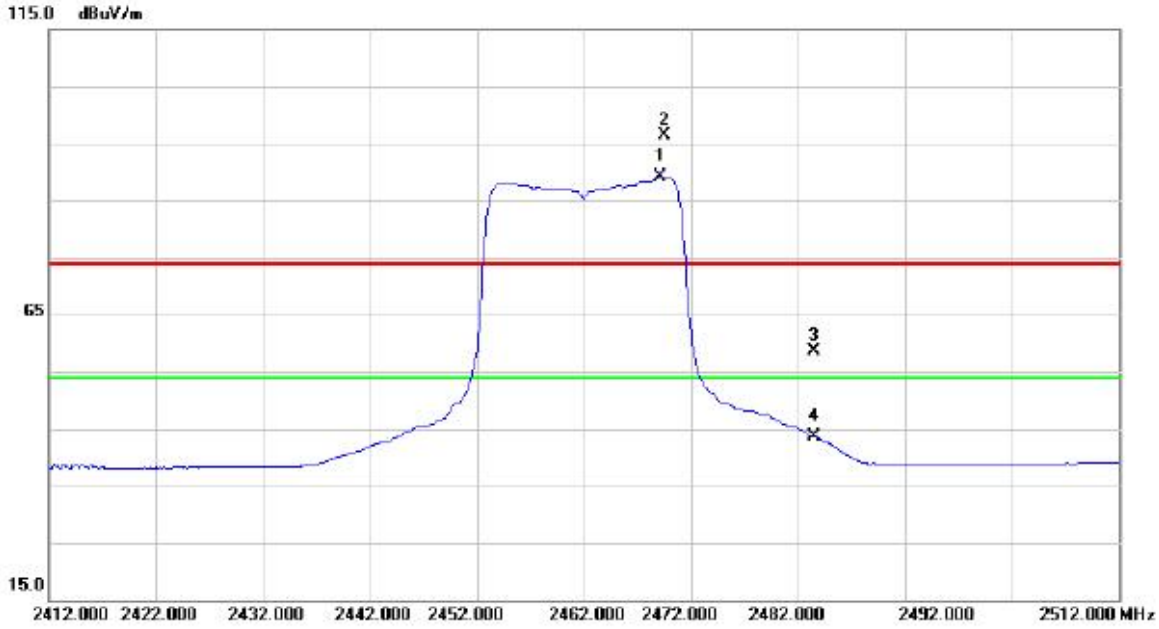
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.950	23.25	5.72	28.97	54.00	-25.03	AVG	
2		4874.200	33.65	5.72	39.37	74.00	-34.63	peak	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2469.100	52.81	36.32	89.13	54.00	35.13	AVG	NO limit
2	X	2469.500	60.01	36.32	96.33	74.00	22.33	peak	NO limit
3		2483.500	22.28	36.39	58.67	74.00	-15.33	peak	
4		2483.500	7.23	36.39	43.62	54.00	-10.38	AVG	

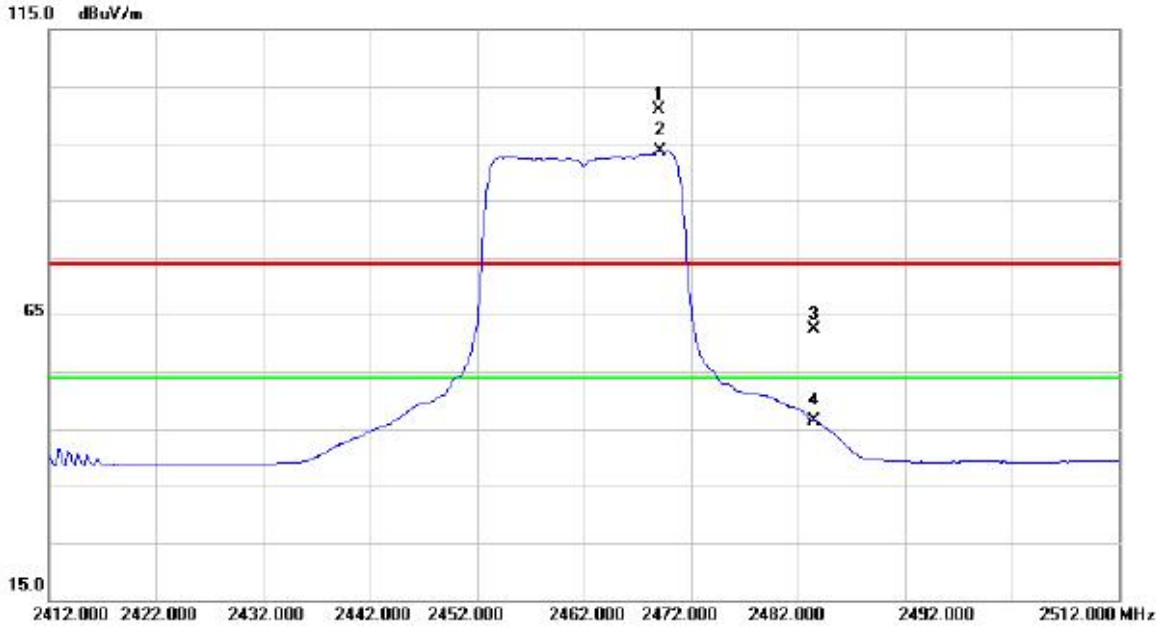
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.950	36.23	5.74	41.97	74.00	-32.03	peak	
2	*	4923.950	25.16	5.74	30.90	54.00	-23.10	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2469.000	64.57	36.31	100.88	74.00	26.88	peak	NO limit
2	*	2469.100	57.39	36.32	93.71	54.00	39.71	AVG	NO limit
3		2483.500	25.94	36.39	62.33	74.00	-11.67	peak	
4		2483.500	10.10	36.39	46.49	54.00	-7.51	AVG	

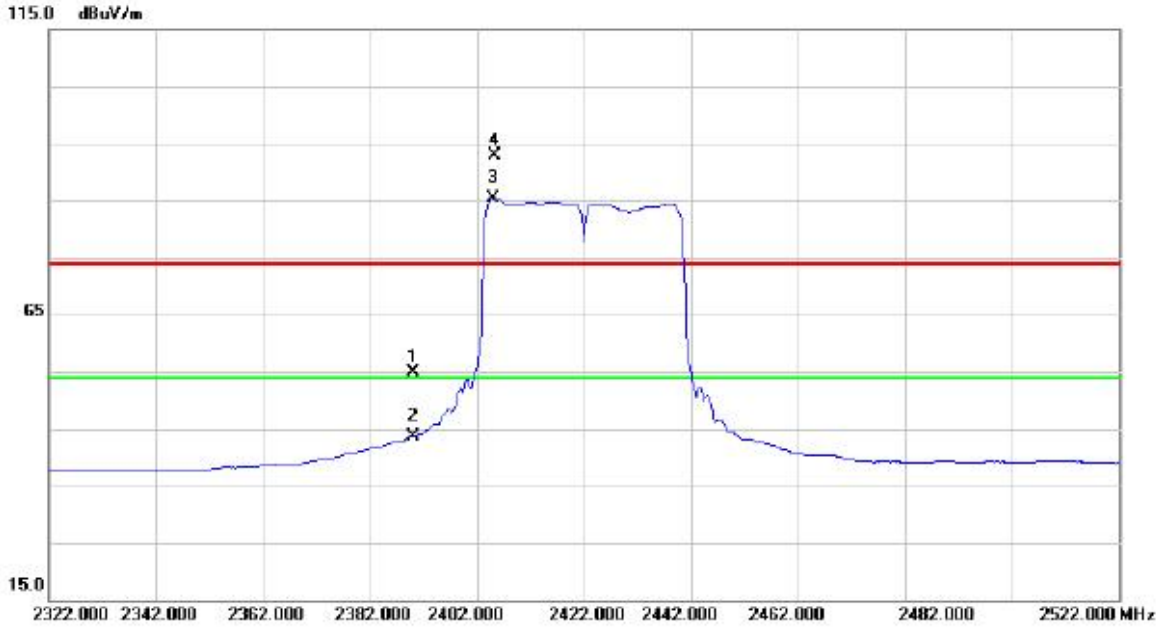
Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.950	24.12	5.74	29.86	54.00	-24.14	AVG	
2		4924.000	35.59	5.74	41.33	74.00	-32.67	peak	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	18.92	35.88	54.80	74.00	-19.20	peak	
2		2390.000	7.80	35.88	43.68	54.00	-10.32	AVG	
3	*	2405.200	49.31	35.96	85.27	54.00	31.27	AVG	NO limit
4	X	2405.400	57.00	35.96	92.96	74.00	18.96	peak	NO limit

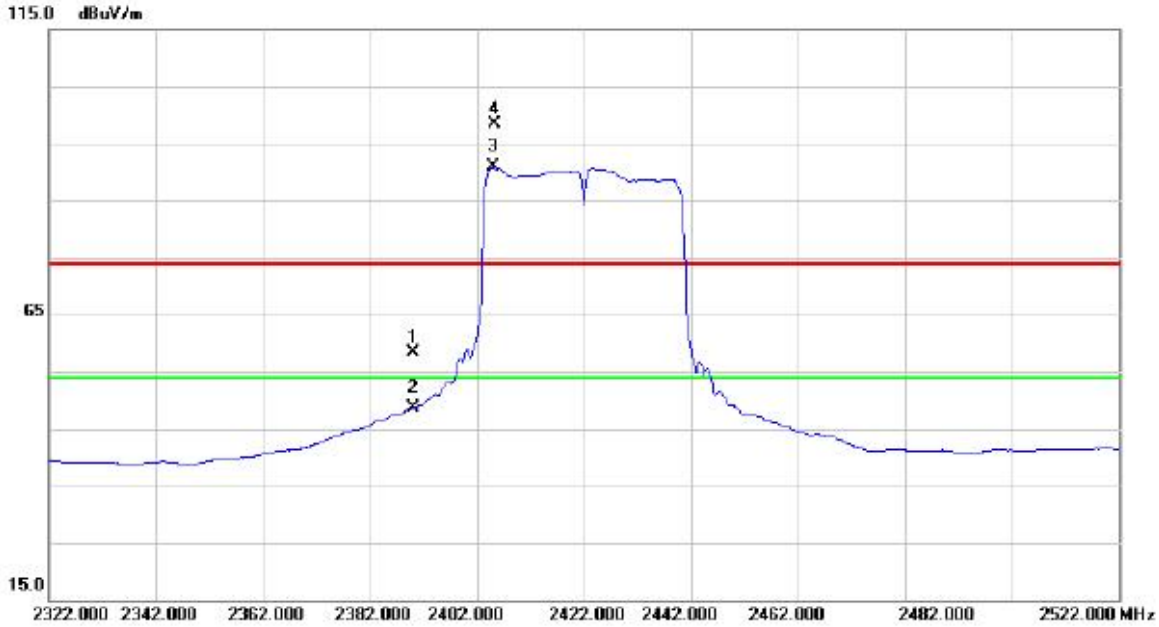
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4844.000	25.68	5.71	31.39	54.00	-22.61	AVG	
2		4844.550	36.13	5.71	41.84	74.00	-32.16	peak	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	22.39	35.88	58.27	74.00	-15.73	peak	
2		2390.000	12.75	35.88	48.63	54.00	-5.37	AVG	
3	*	2405.200	54.80	35.96	90.76	54.00	36.76	AVG	NO limit
4	X	2405.400	62.38	35.96	98.34	74.00	24.34	peak	NO limit

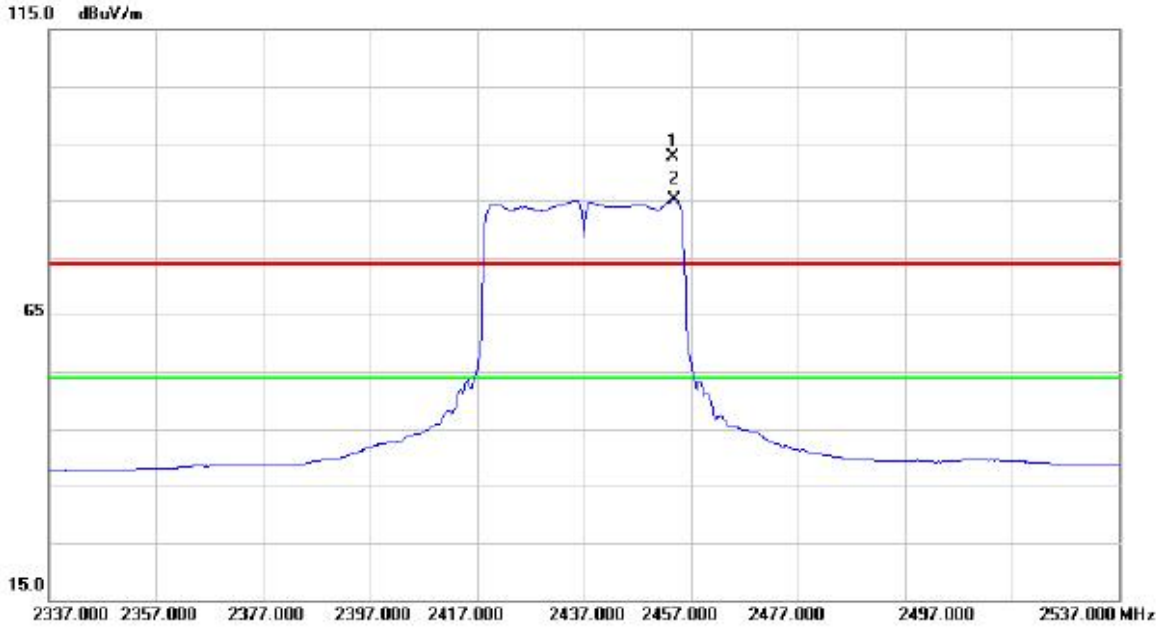
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4844.000	25.63	5.71	31.34	54.00	-22.66	AVG	
2		4844.450	35.47	5.71	41.18	74.00	-32.82	peak	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2453.600	56.49	36.23	92.72	74.00	18.72	peak	NO limit
2	*	2453.800	48.83	36.23	85.06	54.00	31.06	AVG	NO limit

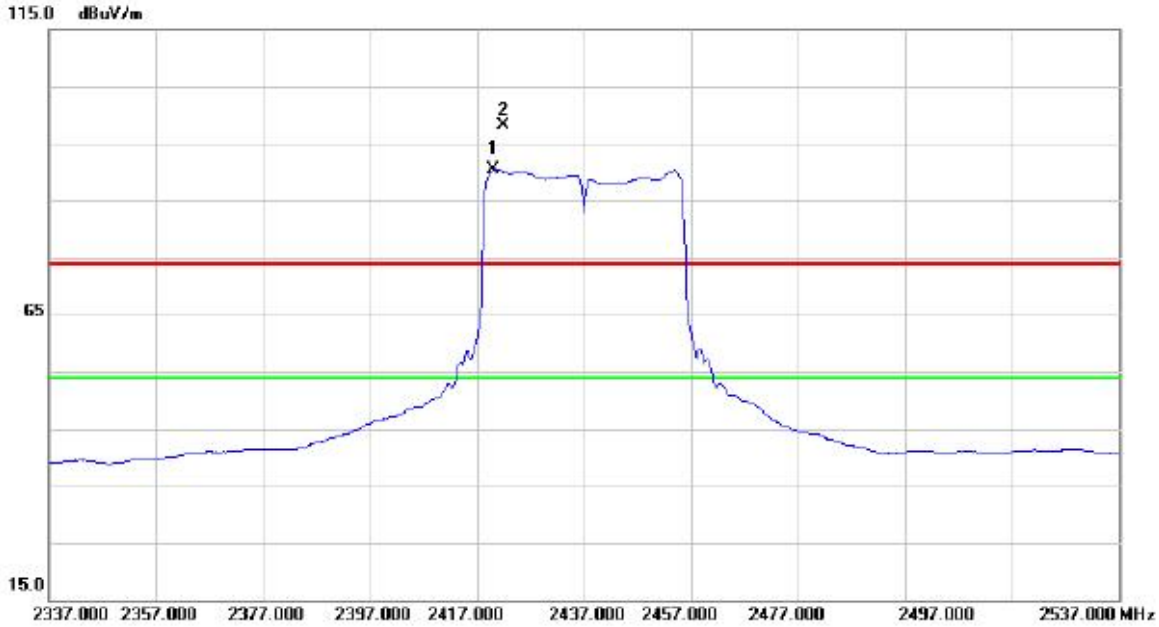
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	33.87	5.72	39.59	74.00	-34.41	peak	
2	*	4874.050	24.22	5.72	29.94	54.00	-24.06	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2420.200	54.30	36.04	90.34	54.00	36.34	AVG	NO limit
2	X	2422.000	62.13	36.05	98.18	74.00	24.18	peak	NO limit

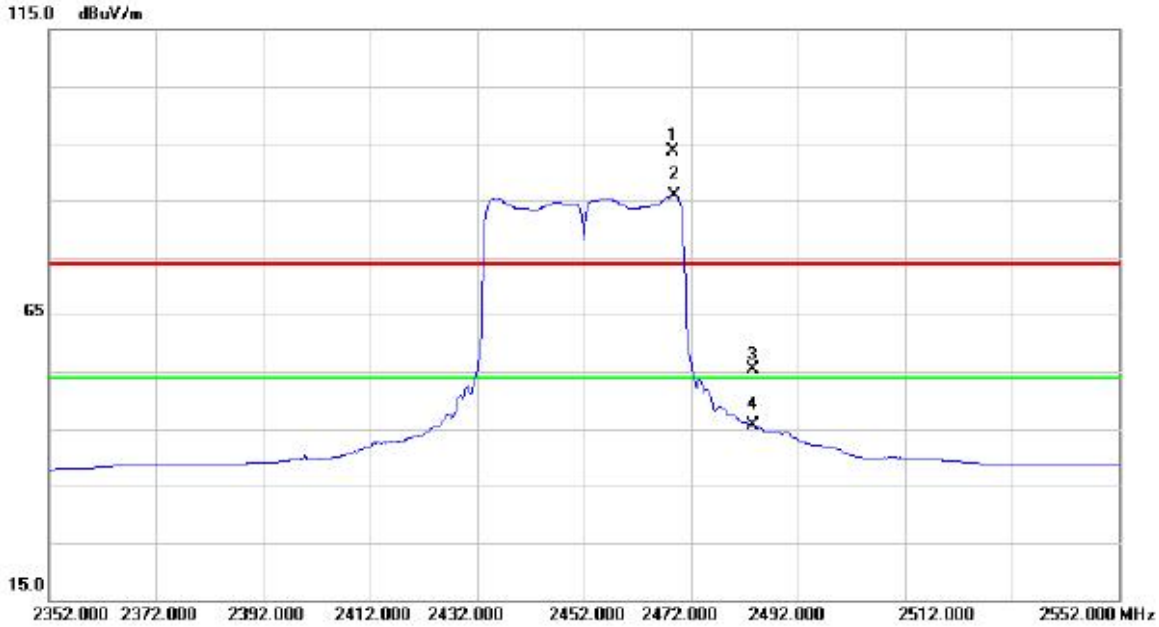
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.750	32.99	5.72	38.71	74.00	-35.29	peak	
2	*	4873.950	22.74	5.72	28.46	54.00	-25.54	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2468.600	57.37	36.30	93.67	74.00	19.67	peak	NO limit
2	*	2468.800	49.58	36.31	85.89	54.00	31.89	AVG	NO limit
3		2483.500	19.06	36.39	55.45	74.00	-18.55	peak	
4		2483.500	9.30	36.39	45.69	54.00	-8.31	AVG	

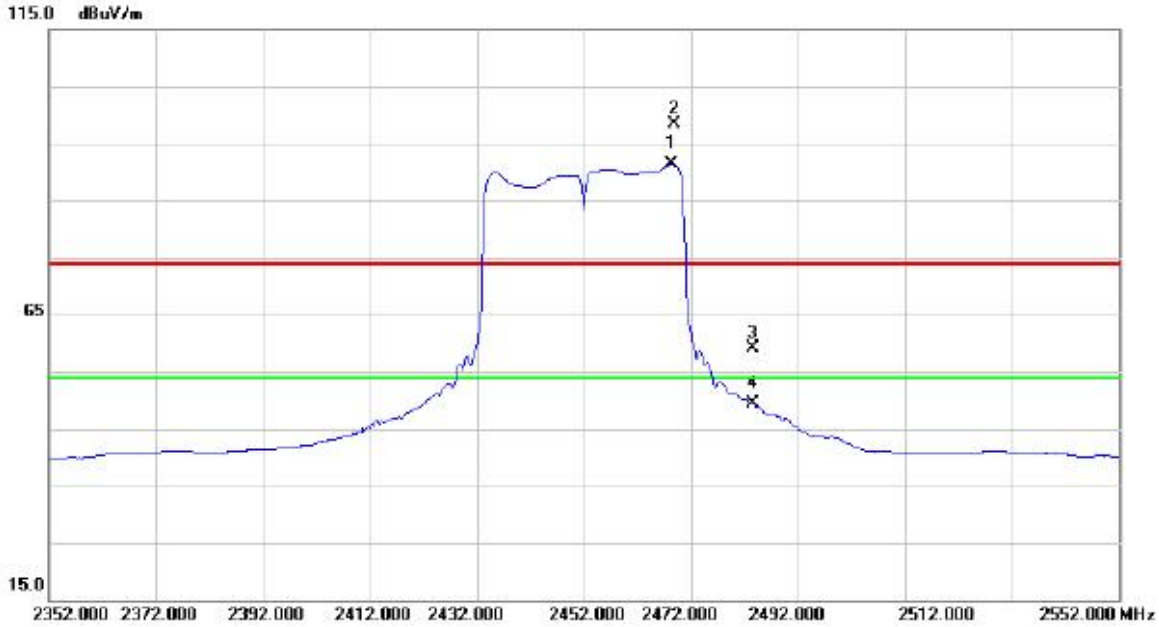
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4903.500	34.27	5.73	40.00	74.00	-34.00	peak	
2	*	4904.100	24.26	5.73	29.99	54.00	-24.01	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2468.400	55.05	36.30	91.35	54.00	37.35	AVG	NO limit
2	X	2469.000	62.18	36.31	98.49	74.00	24.49	peak	NO limit
3		2483.500	22.77	36.39	59.16	74.00	-14.84	peak	
4		2483.500	13.04	36.39	49.43	54.00	-4.57	AVG	

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

Horizontal

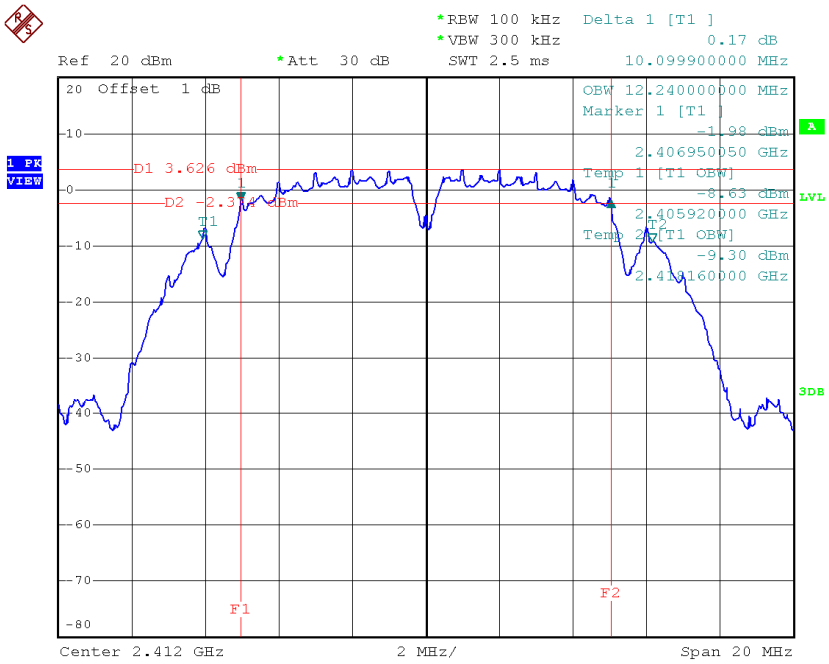
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4903.500	32.10	5.73	37.83	74.00	-36.17	peak	
2	*	4904.100	22.65	5.73	28.38	54.00	-25.62	AVG	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

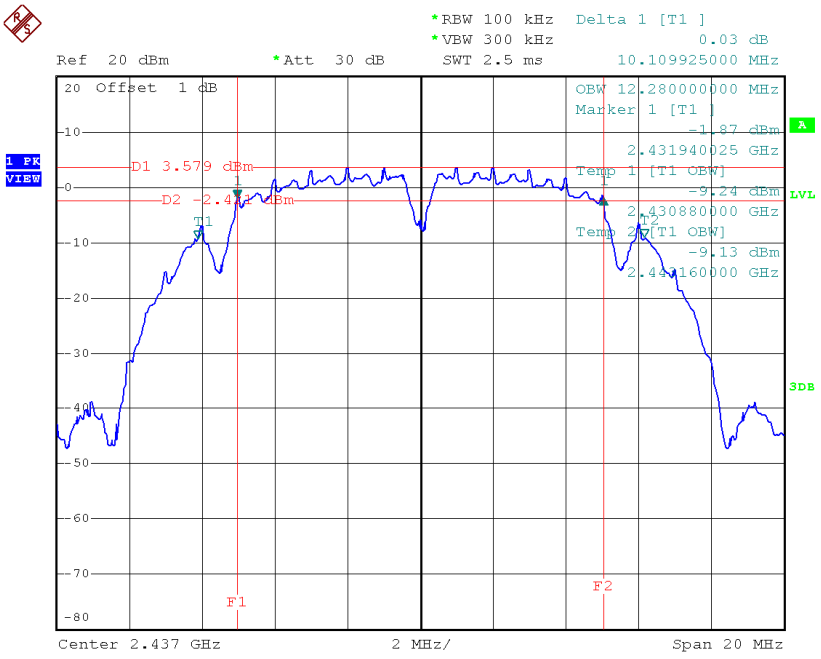
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.10	12.24	500	Complies
2437	10.11	12.28	500	Complies
2462	10.10	12.28	500	Complies

TX CH01



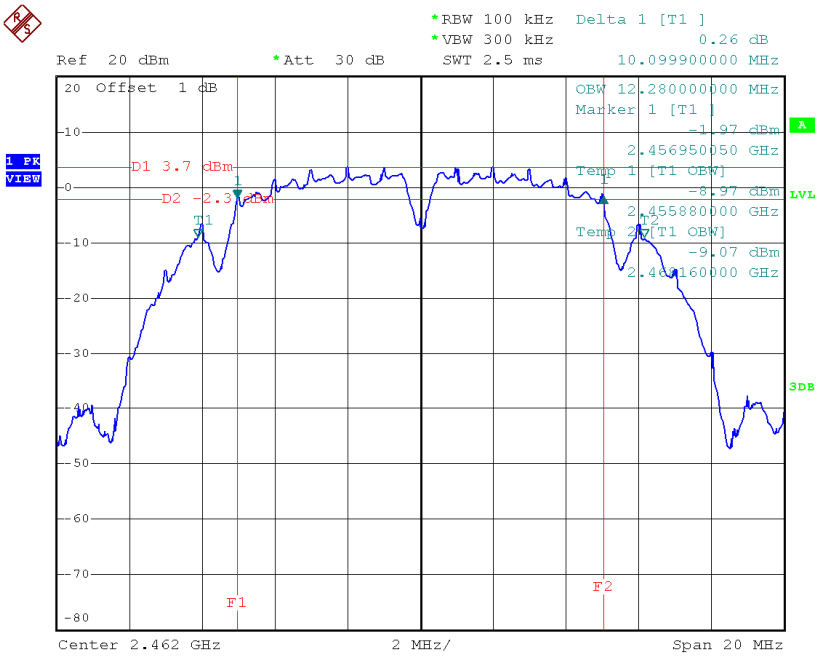
Date: 24.MAY.2015 16:59:09

TX CH06



Date: 24.MAY.2015 17:01:08

TX CH11

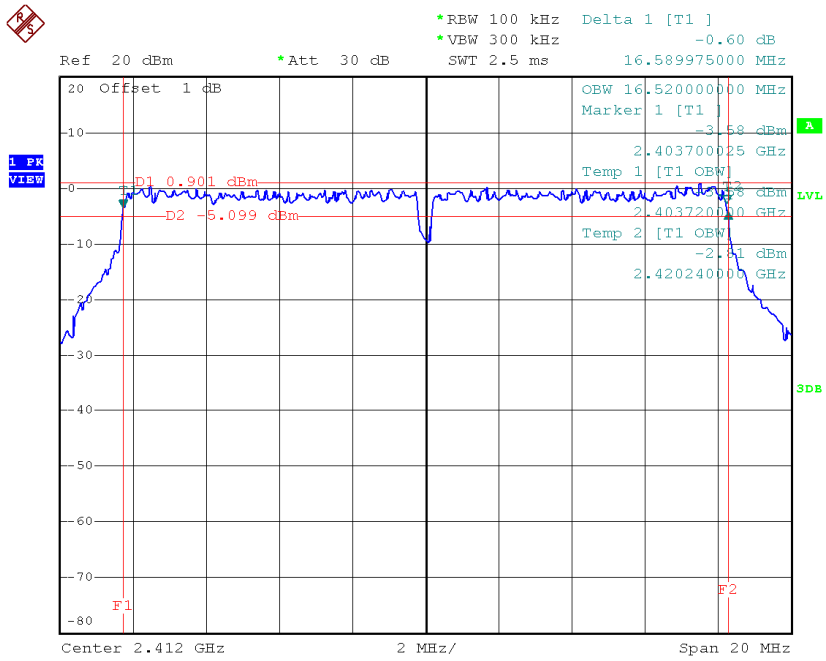


Date: 24.MAY.2015 17:05:44

Test Mode: TX G Mode_CH01/06/11

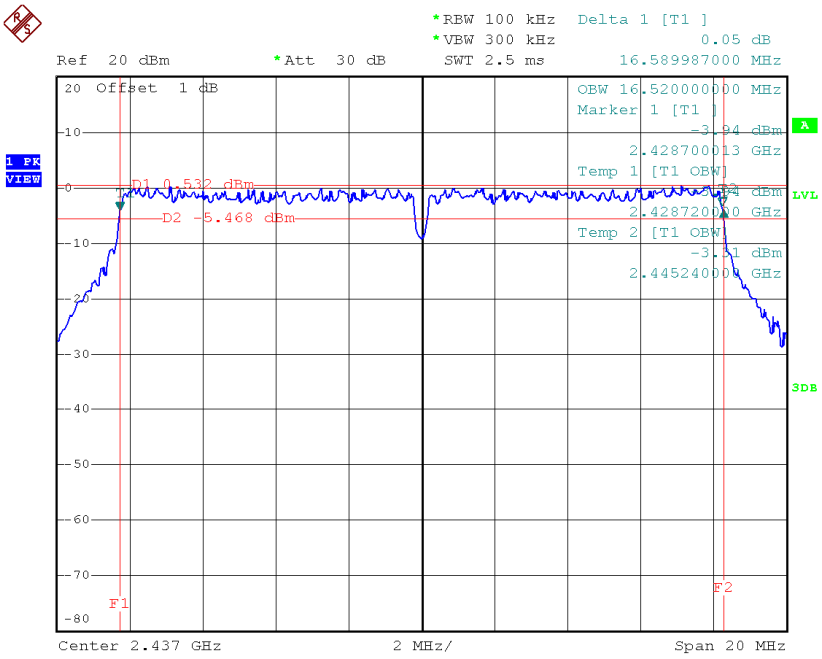
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.59	16.52	500	Complies
2437	16.59	16.52	500	Complies
2462	16.64	16.52	500	Complies

TX CH01



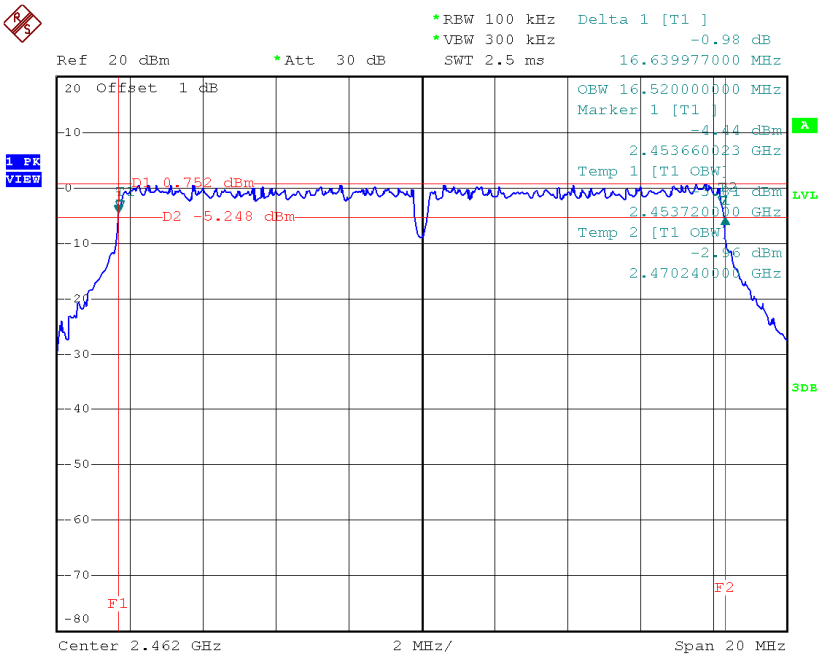
Date: 24.MAY.2015 17:07:37

TX CH06



Date: 24.MAY.2015 17:08:55

TX CH11

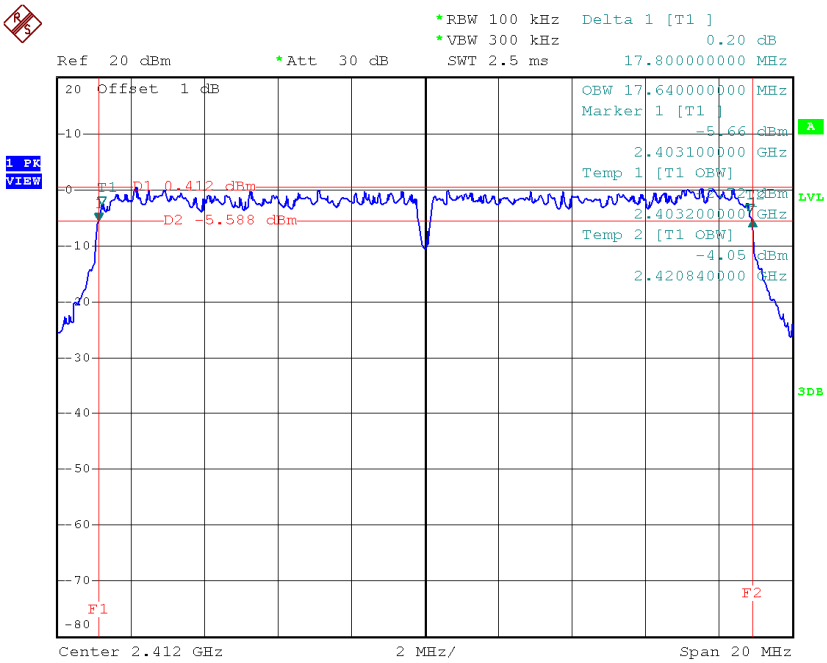


Date: 24.MAY.2015 17:10:19

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

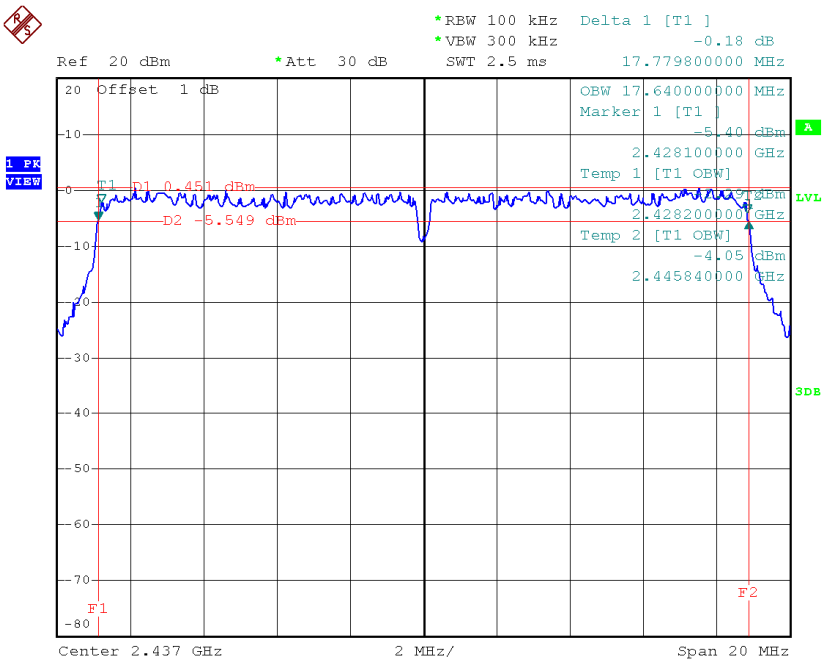
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.80	17.64	500	Complies
2437	17.78	17.64	500	Complies
2462	17.80	17.64	500	Complies

TX CH01



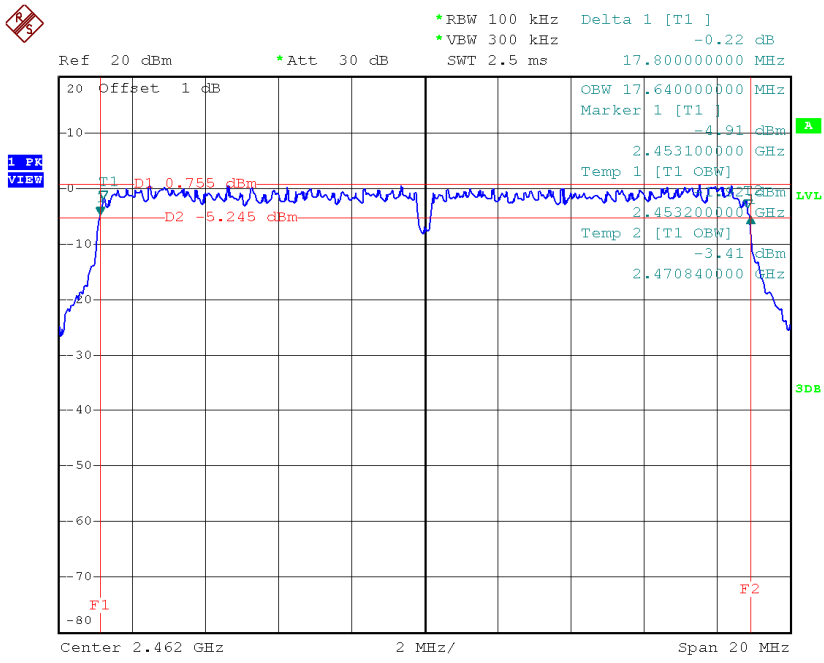
Date: 24.MAY.2015 17:11:30

TX CH06



Date: 24.MAY.2015 17:12:41

TX CH11

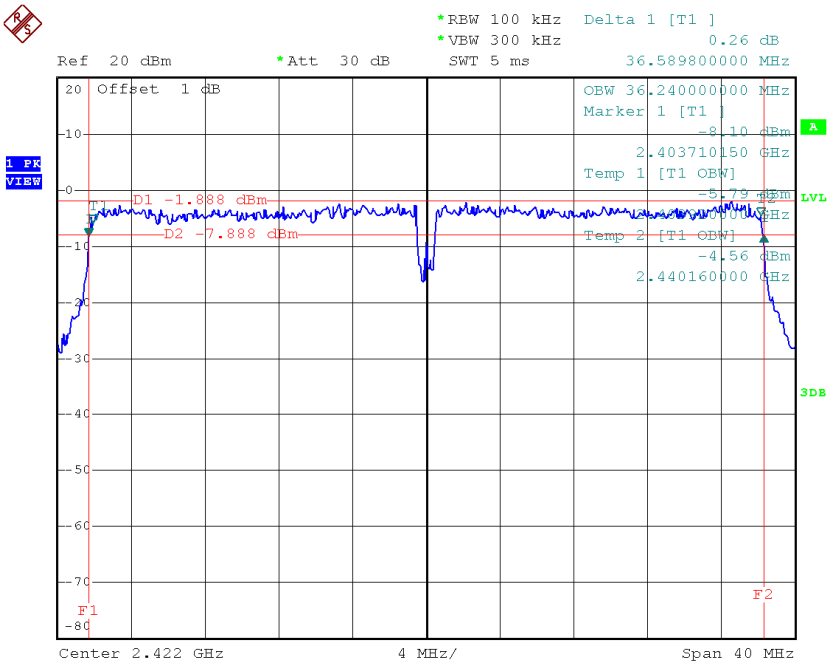


Date: 24.MAY.2015 17:13:43

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

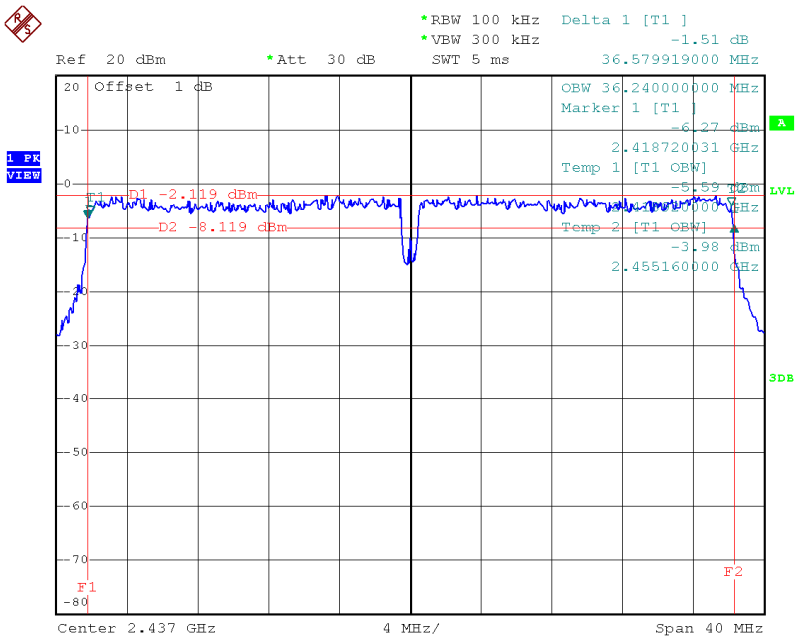
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.59	36.24	500	Complies
2437	36.58	36.24	500	Complies
2452	36.58	36.24	500	Complies

TX CH03



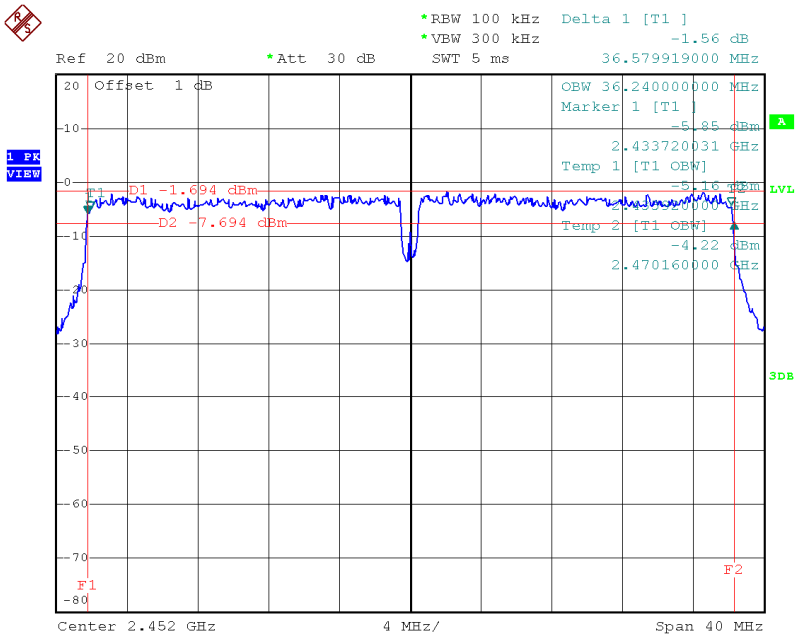
Date: 24.MAY.2015 17:15:05

TX CH06



Date: 24.MAY.2015 17:16:18

TX CH09



Date: 24.MAY.2015 17:17:25

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	17.41	0.06	30.00	1.00	Complies
2437	17.36	0.05	30.00	1.00	Complies
2462	17.27	0.05	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	23.03	0.20	30.00	1.00	Complies
2437	23.08	0.20	30.00	1.00	Complies
2462	23.07	0.20	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	22.82	0.19	30.00	1.00	Complies
2437	22.75	0.19	30.00	1.00	Complies
2462	22.83	0.19	30.00	1.00	Complies

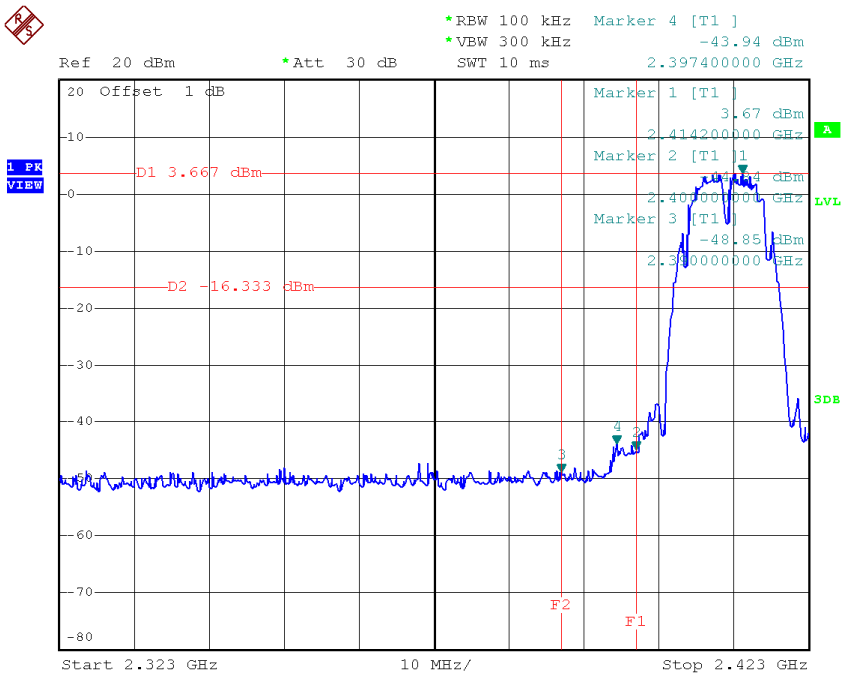
Test Mode :TX N40 Mode_CH03/06/09

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	22.98	0.20	30.00	1.00	Complies
2437	23.04	0.20	30.00	1.00	Complies
2452	23.18	0.21	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

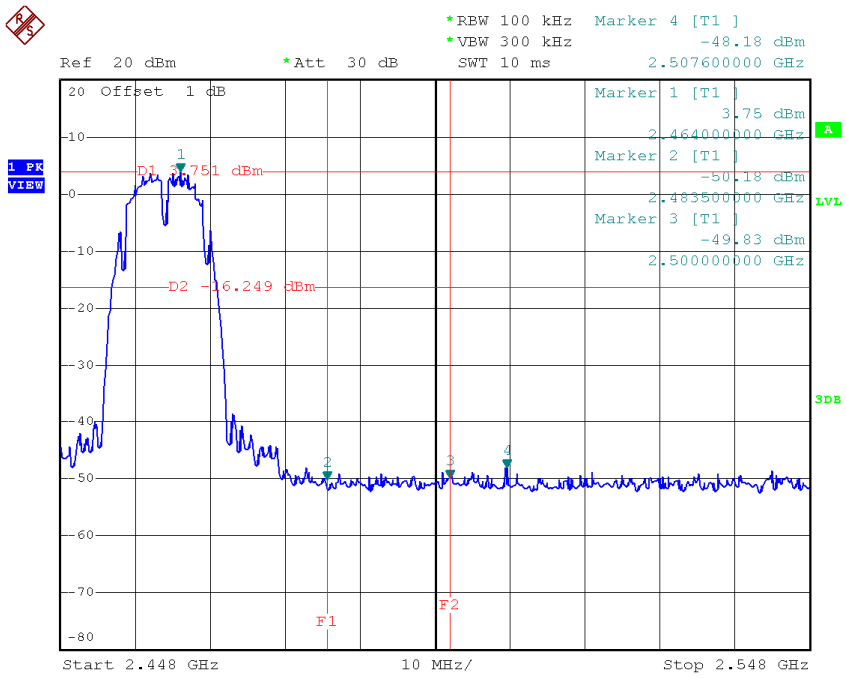
Test Mode :	**TX B Mode**

TX B mode CH01



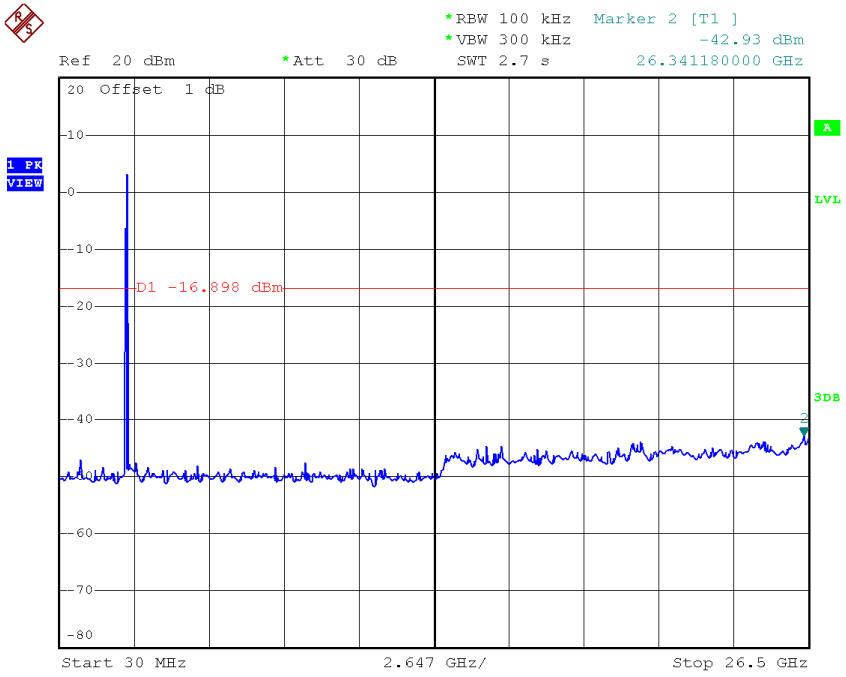
Date: 24.MAY.2015 16:59:31

TX B mode CH11



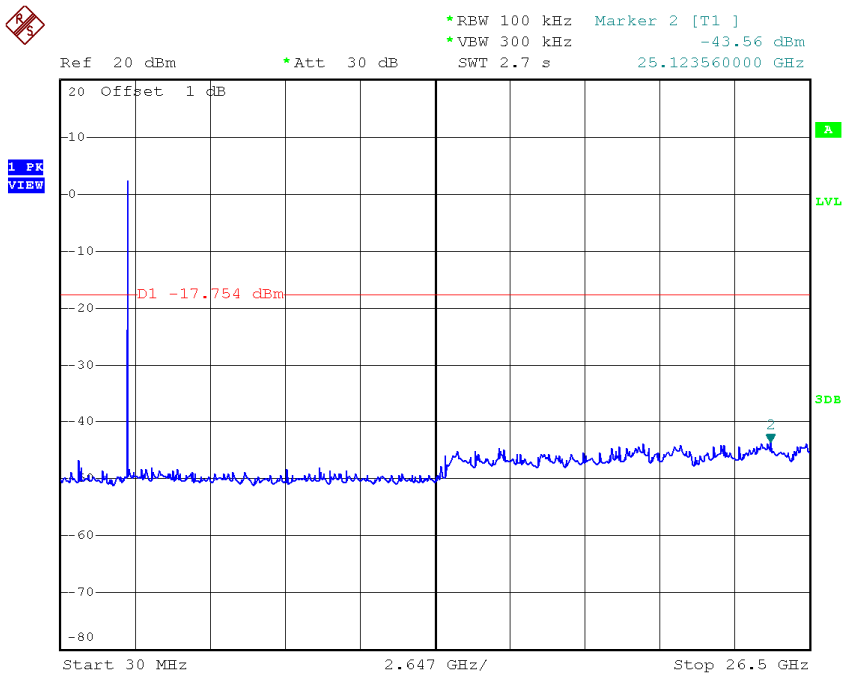
Date: 24.MAY.2015 17:06:06

TX B mode CH01 (10 Harmonic of the frequency)



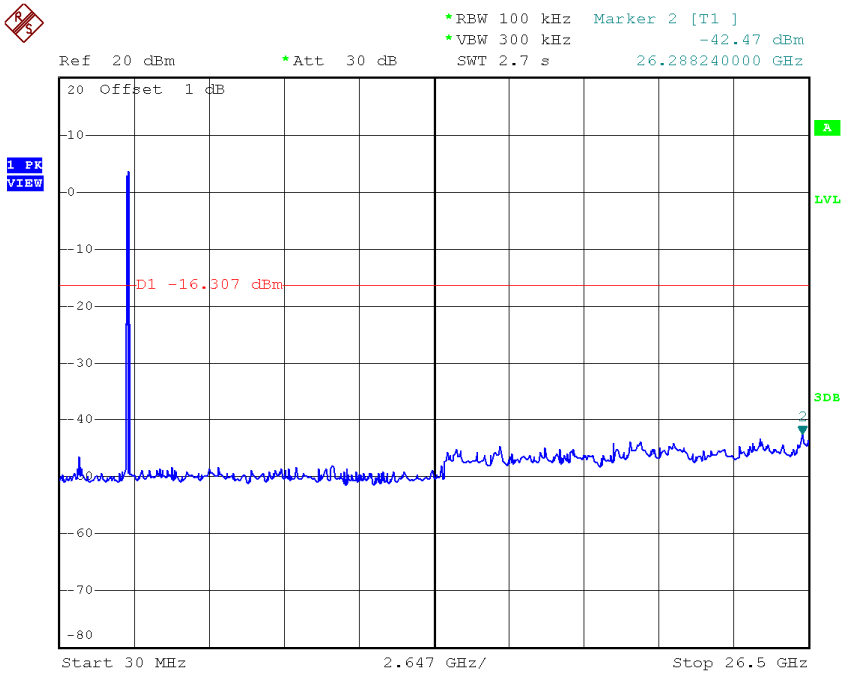
Date: 24.MAY.2015 16:59:24

TX B mode CH06 (10 Harmonic of the frequency)



Date: 24.MAY.2015 17:01:21

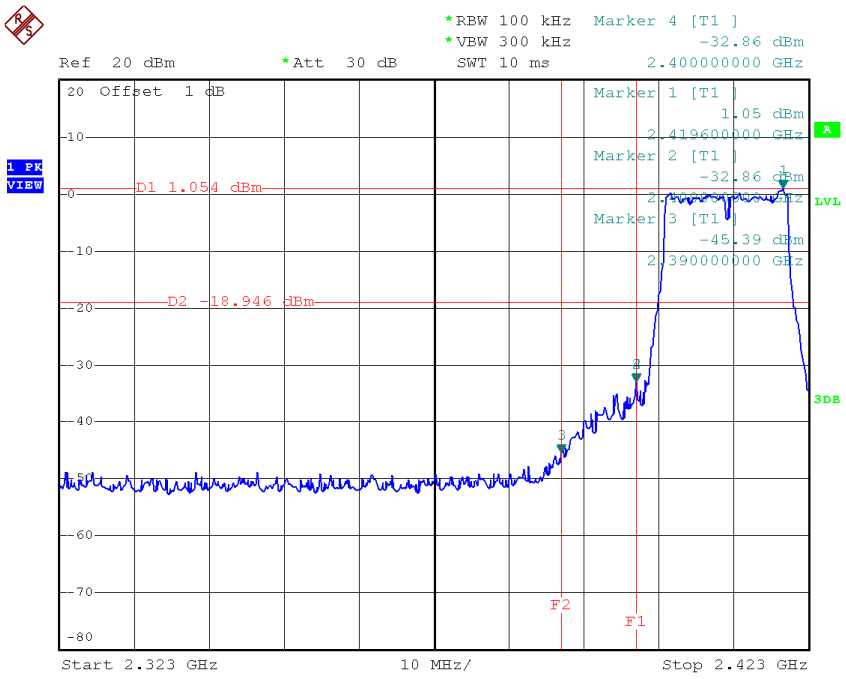
TX B mode CH11 (10 Harmonic of the frequency)



Date: 24.MAY.2015 17:05:58

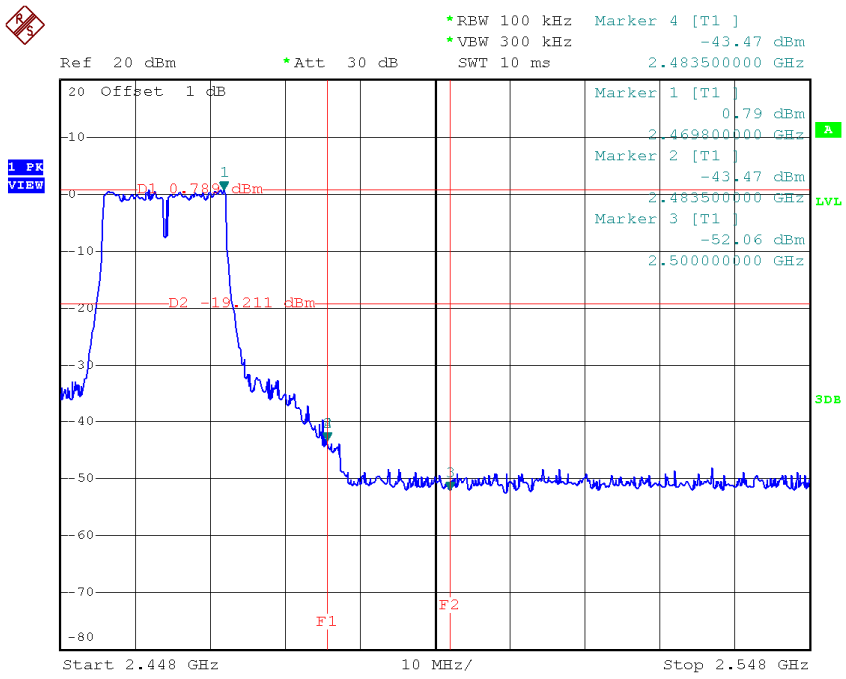
Test Mode :	TX G Mode

TX G mode CH01



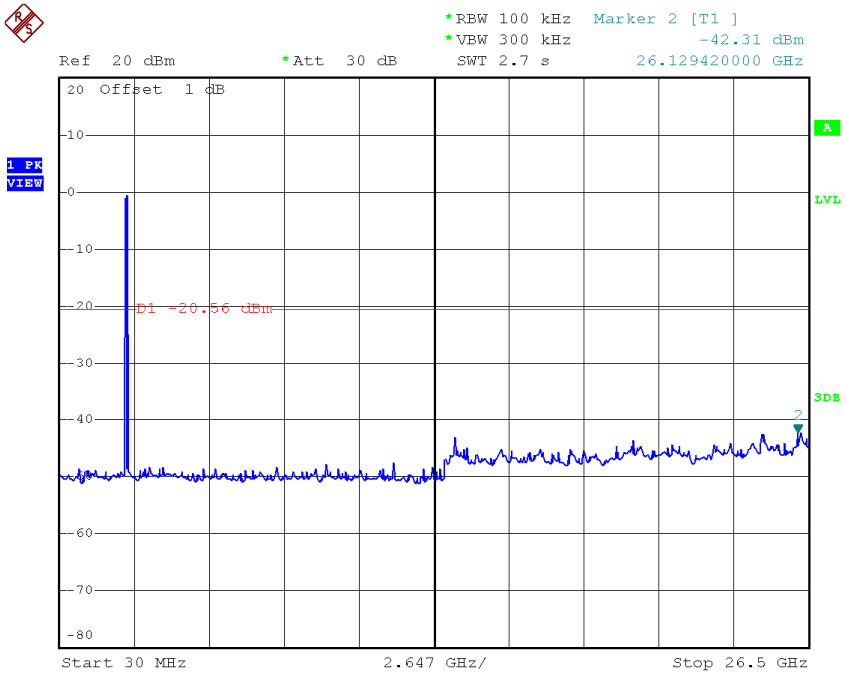
Date: 24.MAY.2015 17:07:58

TX G mode CH11



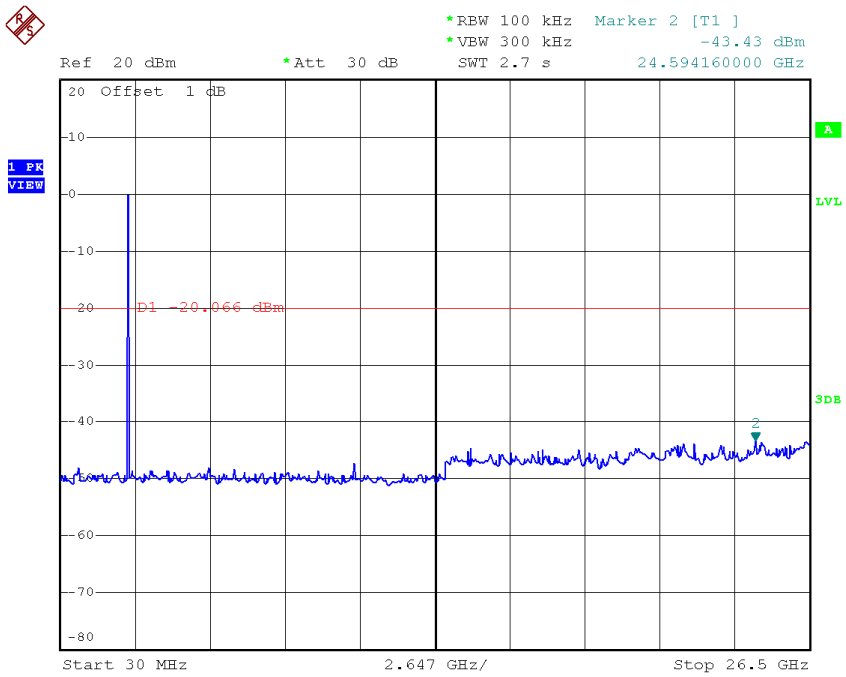
Date: 24.MAY.2015 17:10:41

TX G mode CH01 (10 Harmonic of the frequency)



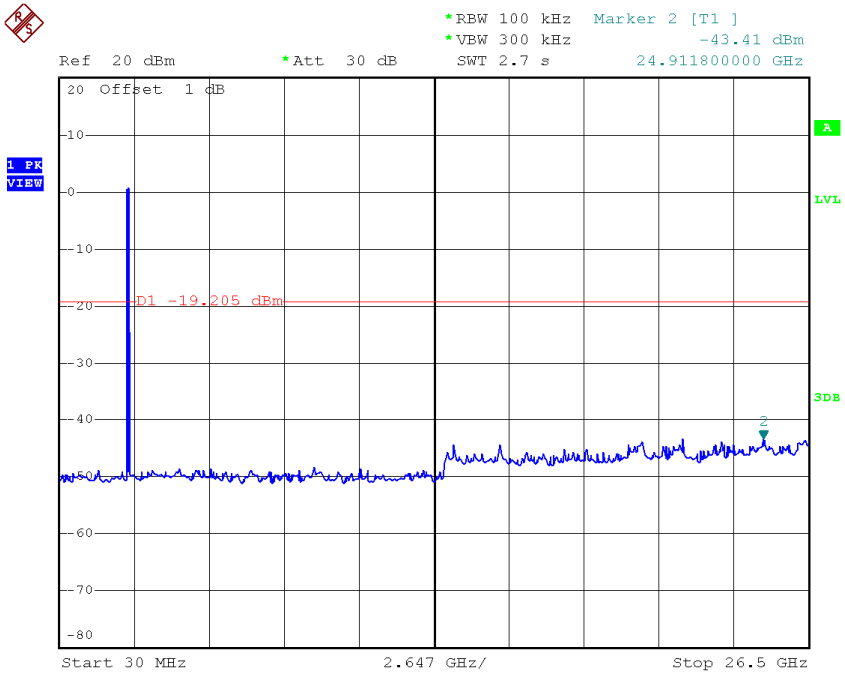
Date: 24.MAY.2015 17:07:51

TX G mode CH06 (10 Harmonic of the frequency)



Date: 24.MAY.2015 17:09:09

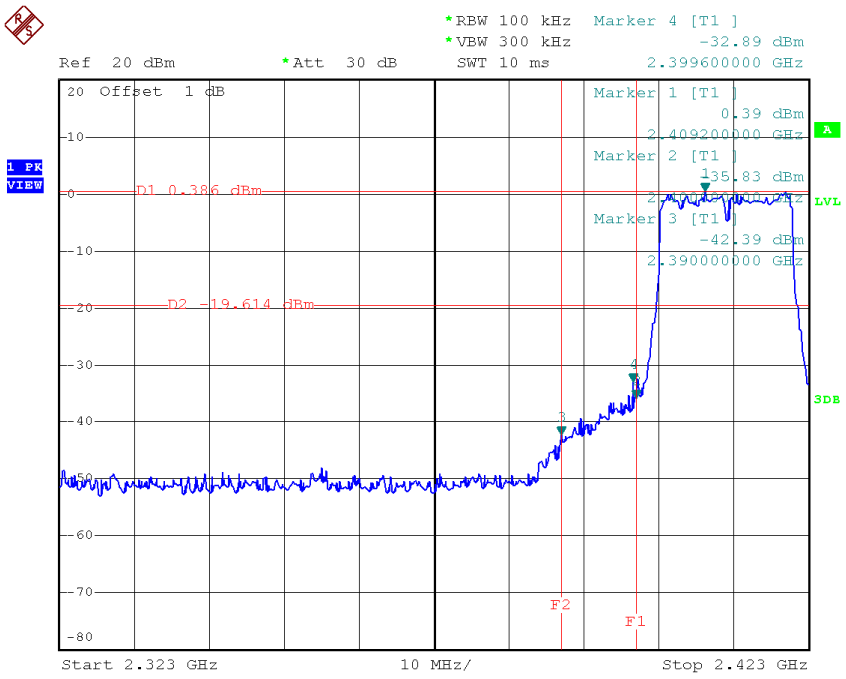
TX G mode CH11 (10 Harmonic of the frequency)



Date: 24.MAY.2015 17:10:33

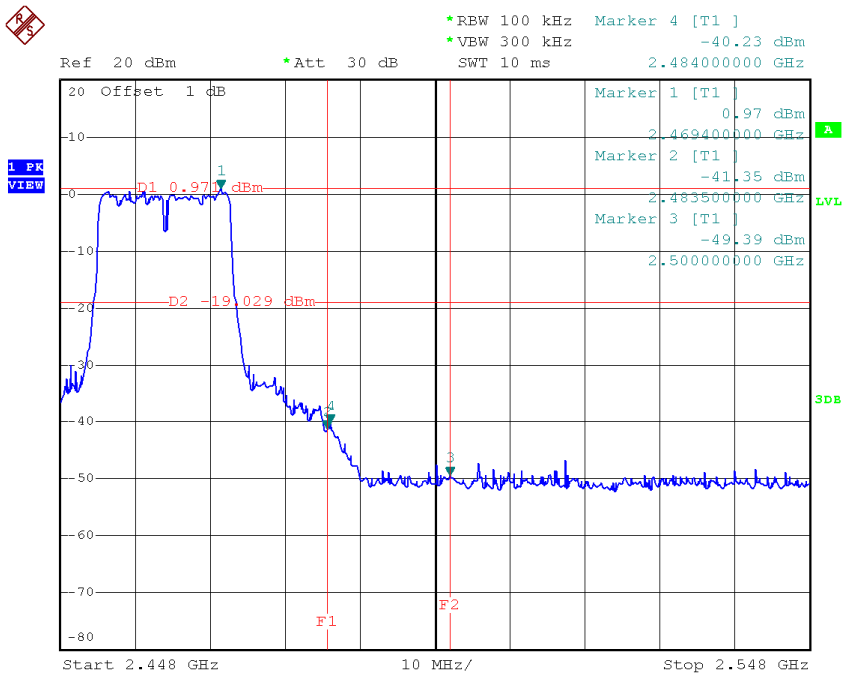
Test Mode :	TX N-20M Mode

TX HT20 mode CH01



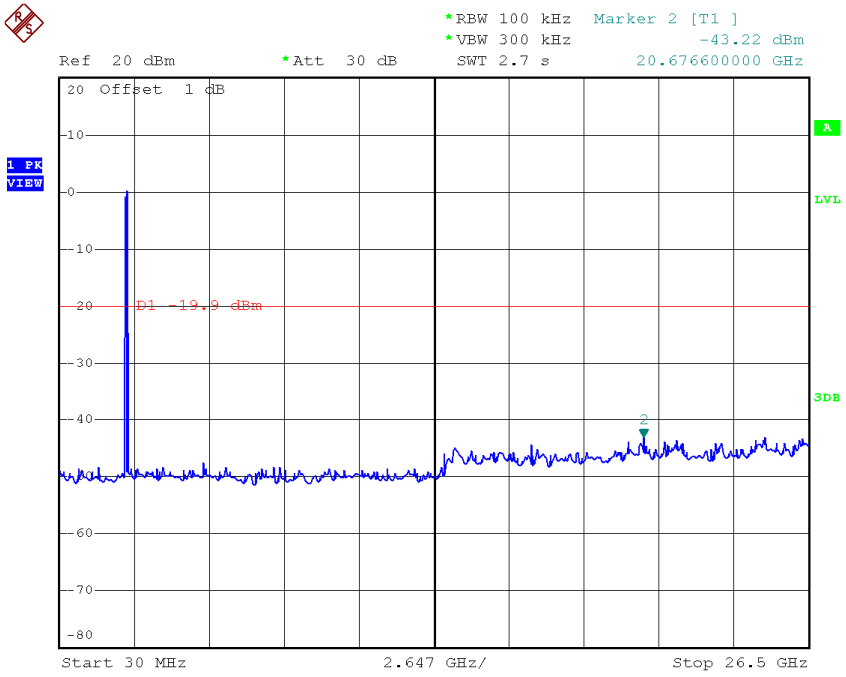
Date: 24.MAY.2015 17:11:52

TX HT20 mode CH11



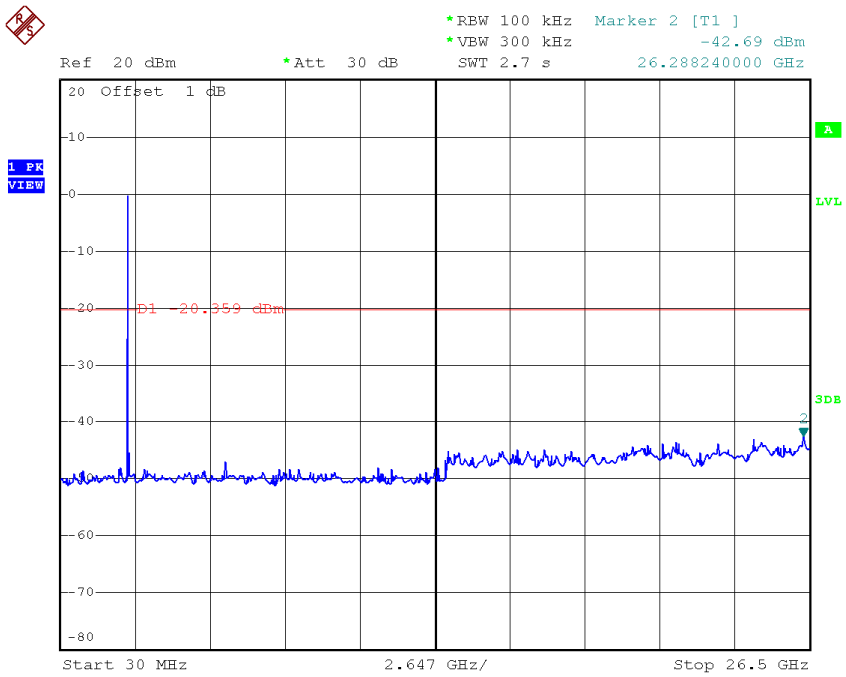
Date: 24.MAY.2015 17:14:04

TX HT20 mode CH01 (10 Harmonic of the frequency)



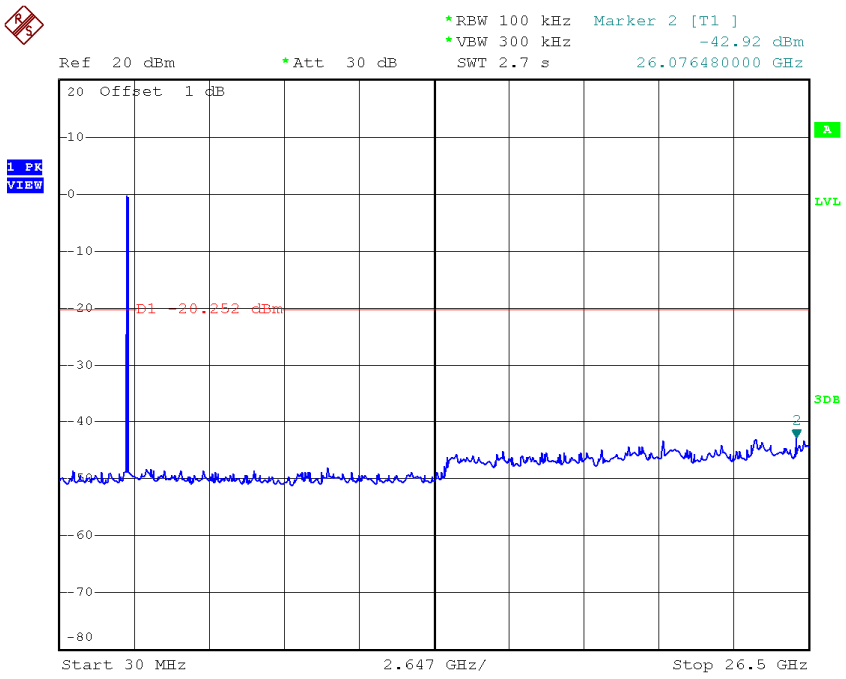
Date: 24.MAY.2015 17:11:45

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 24.MAY.2015 17:12:55

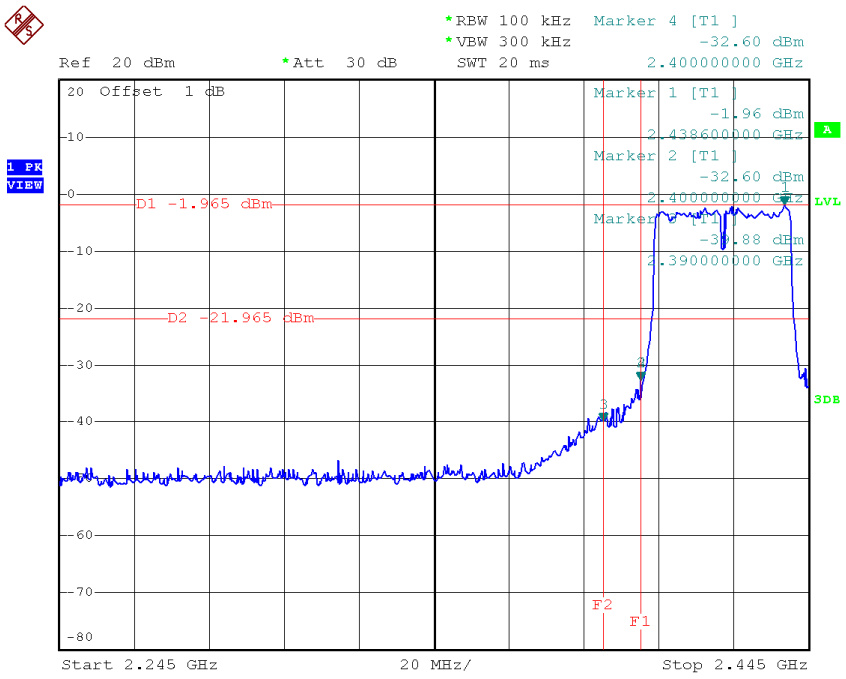
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 24.MAY.2015 17:13:57

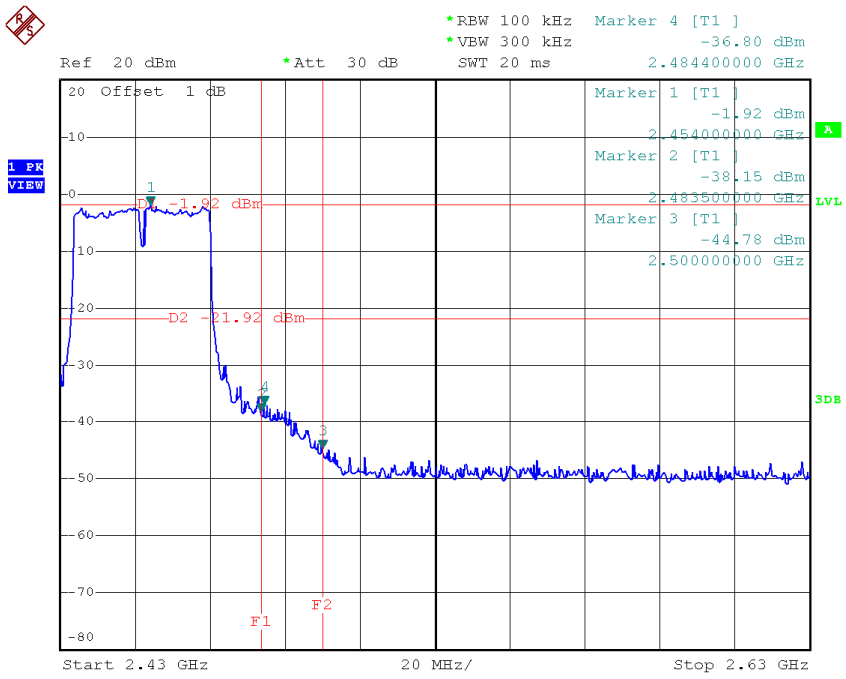
Test Mode :	TX N-40M Mode

TX HT40 mode CH03



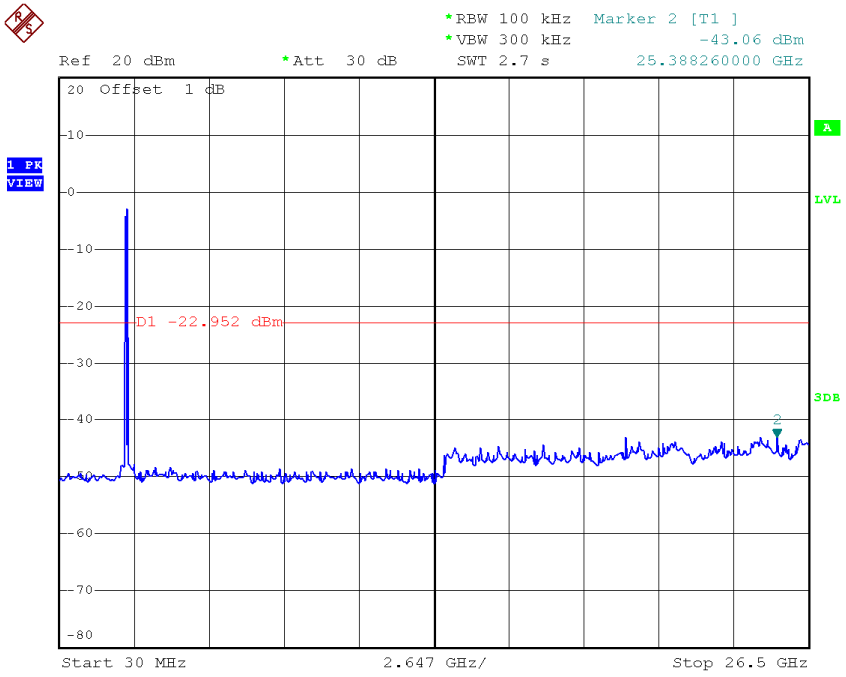
Date: 24.MAY.2015 17:15:27

TX HT40 mode CH09



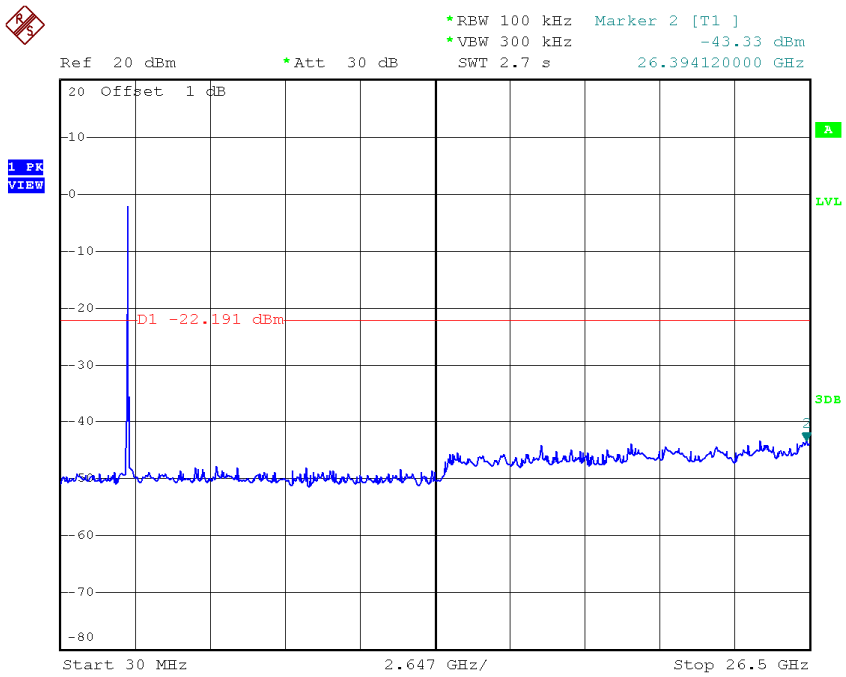
Date: 24.MAY.2015 17:17:47

TX HT40 mode CH03 (10 Harmonic of the frequency)



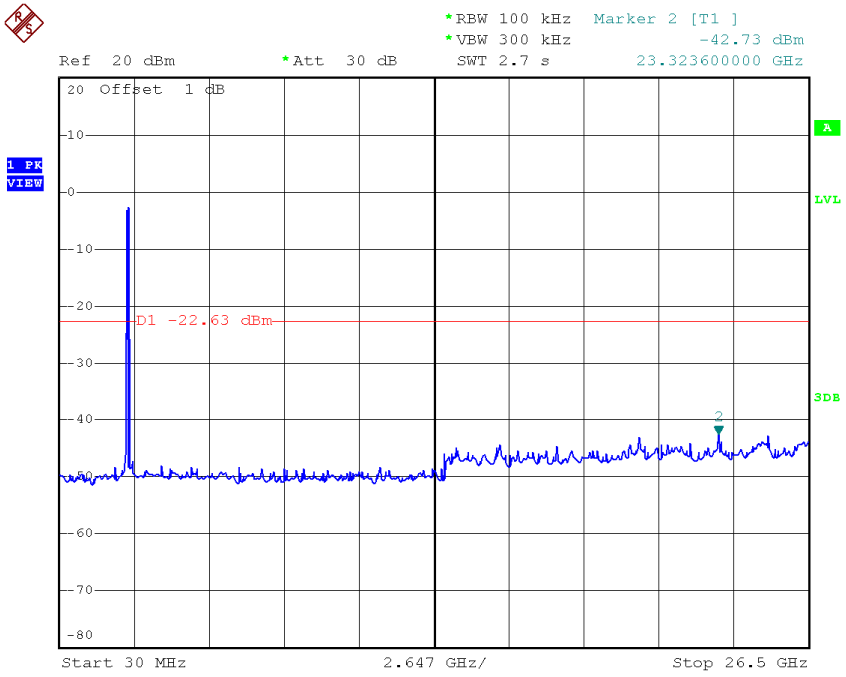
Date: 24.MAY.2015 17:15:19

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 24.MAY.2015 17:16:32

TX HT40 mode CH09 (10 Harmonic of the frequency)



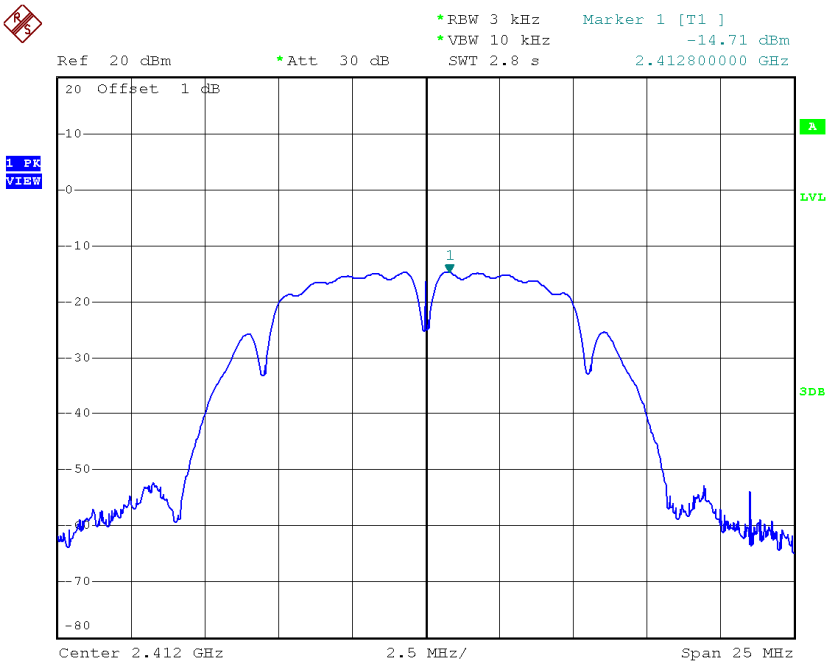
Date: 24.MAY.2015 17:17:39

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

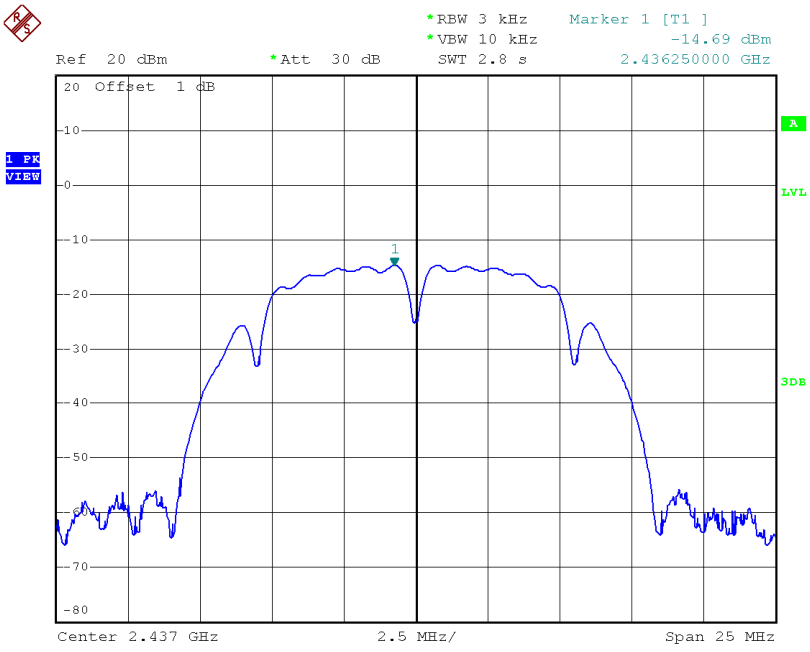
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.71	0.03	8.00	Complies
2437	-14.69	0.03	8.00	Complies
2462	-14.58	0.03	8.00	Complies

TX CH01



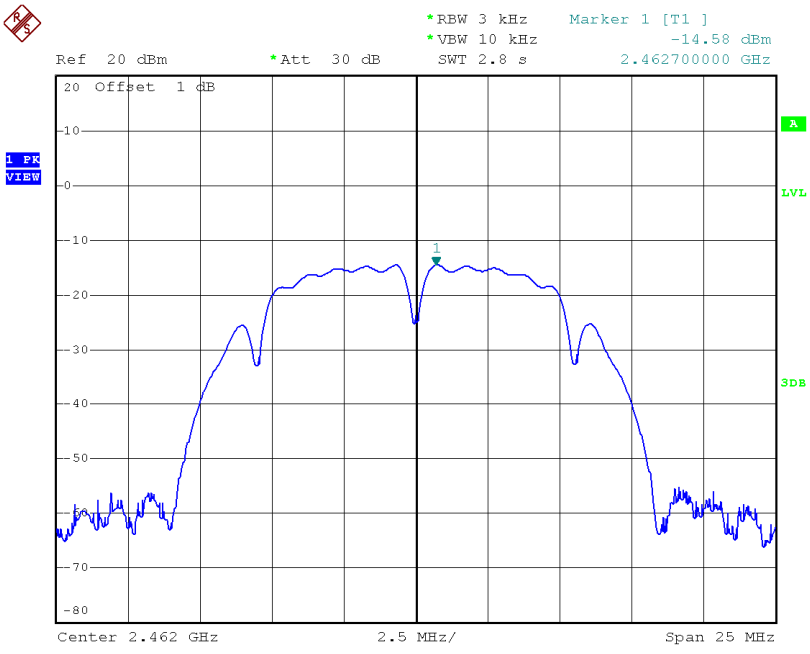
Date: 24.MAY.2015 16:59:40

TX CH06



Date: 24.MAY.2015 17:01:31

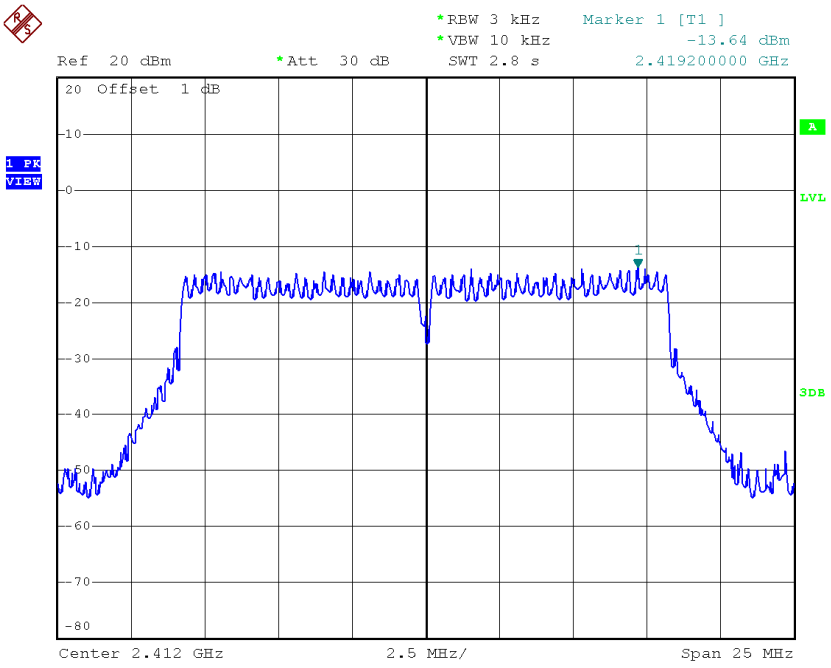
TX CH11



Date: 24.MAY.2015 17:06:15

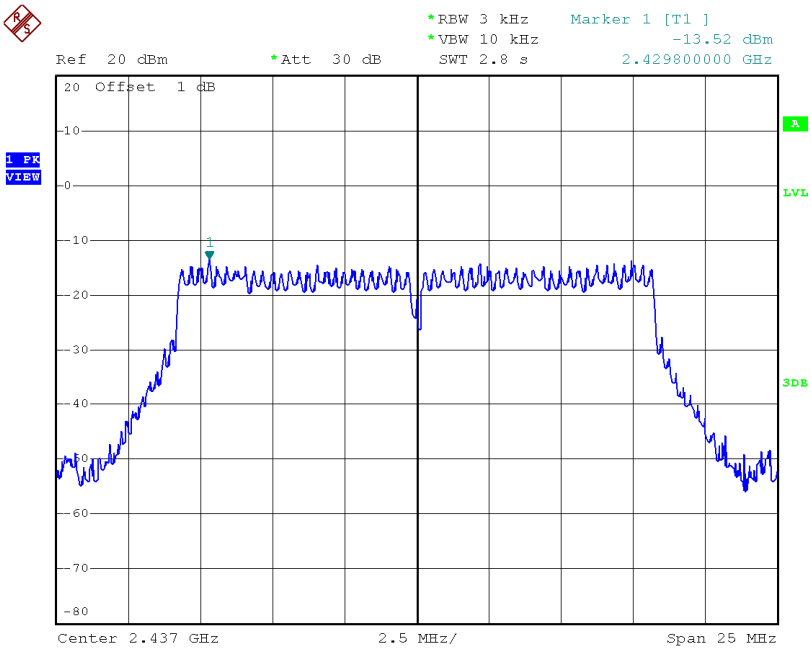
Test Mode :TX G Mode_CH01/06/11				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.64	0.04	8.00	Complies
2437	-13.52	0.04	8.00	Complies
2462	-13.31	0.05	8.00	Complies

TX CH01



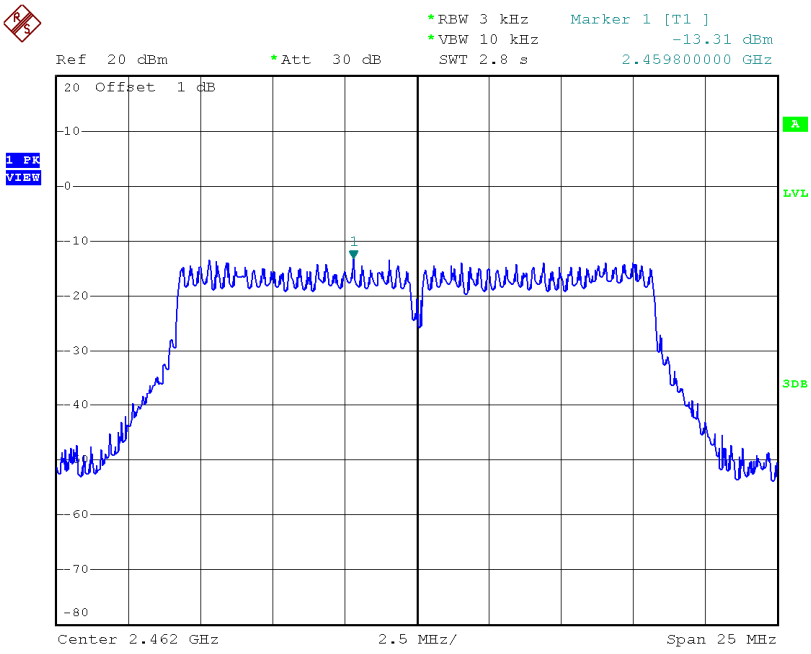
Date: 24.MAY.2015 17:08:07

TX CH06



Date: 24.MAY.2015 17:09:18

TX CH11

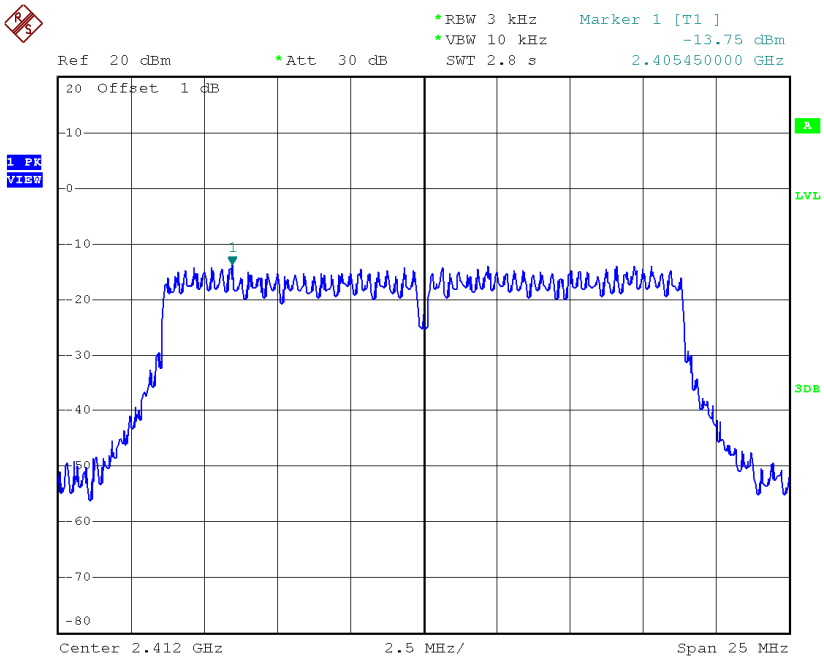


Date: 24.MAY.2015 17:10:50

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

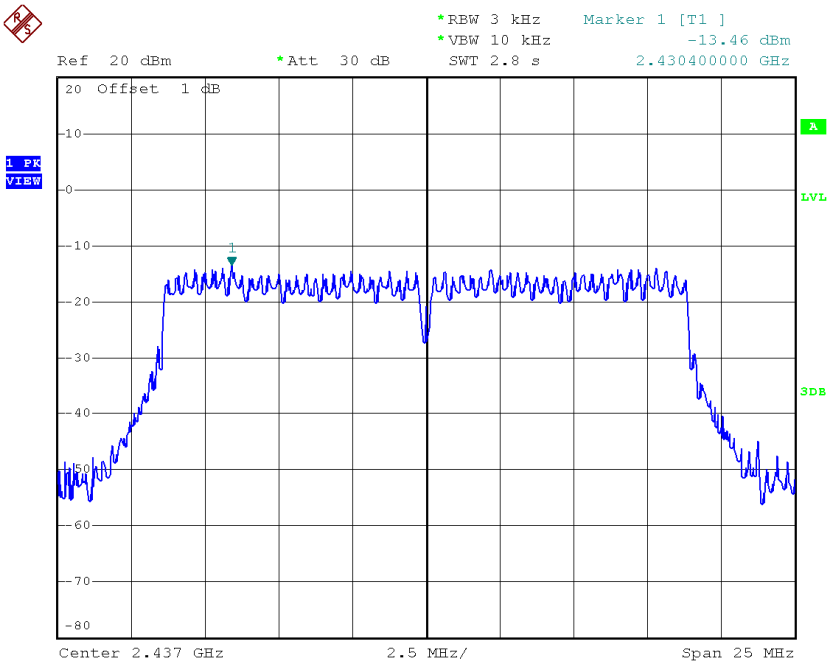
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.75	0.04	8.00	Complies
2437	-13.46	0.05	8.00	Complies
2462	-13.08	0.05	8.00	Complies

TX CH01



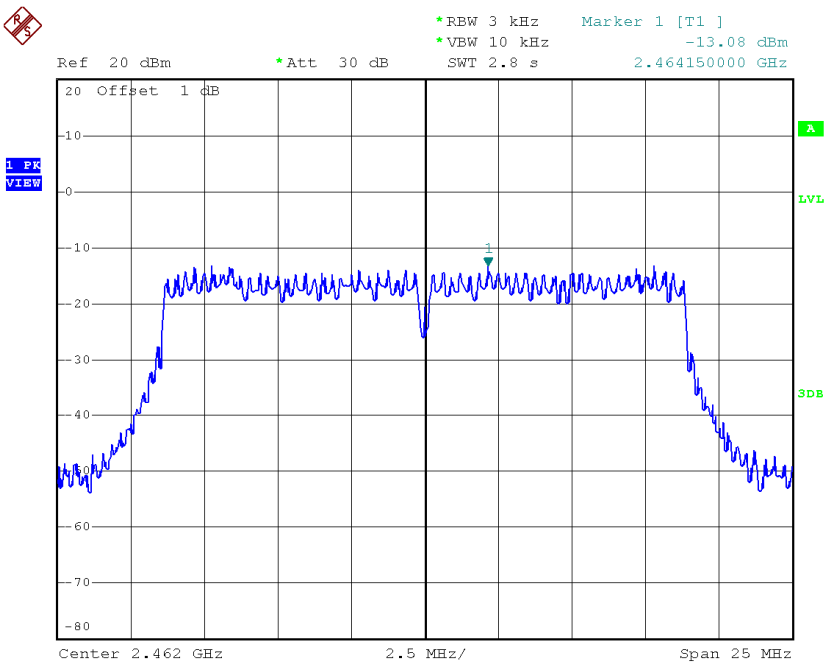
Date: 24.MAY.2015 17:12:01

TX CH06



Date: 24.MAY.2015 17:13:04

TX CH11

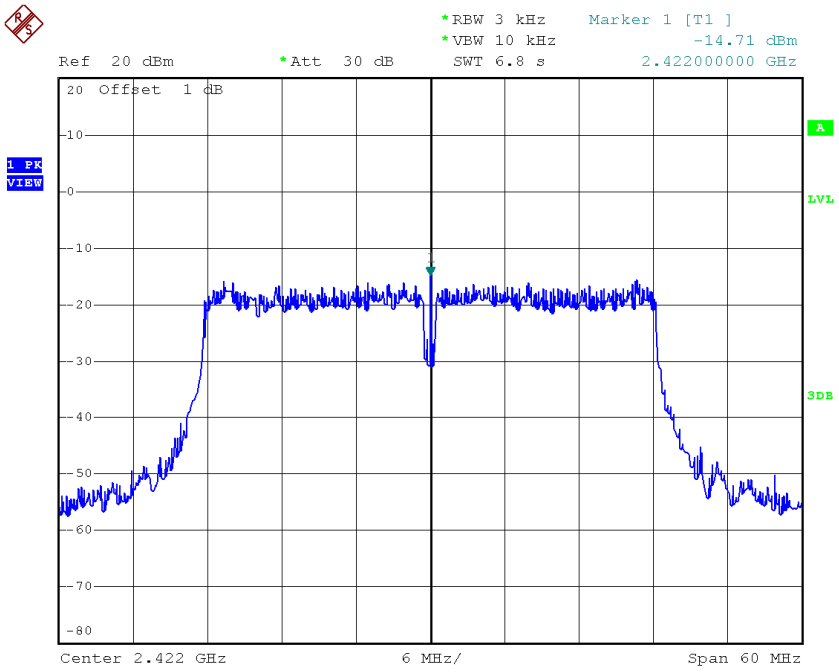


Date: 24.MAY.2015 17:14:13

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

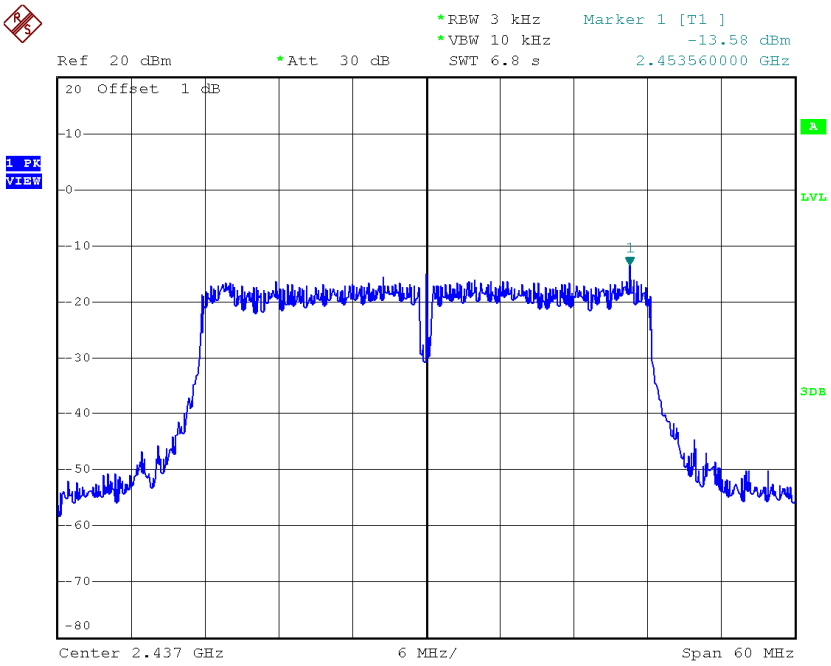
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-14.71	0.03	8.00	Complies
2437	-13.58	0.04	8.00	Complies
2452	-14.07	0.04	8.00	Complies

TX CH03



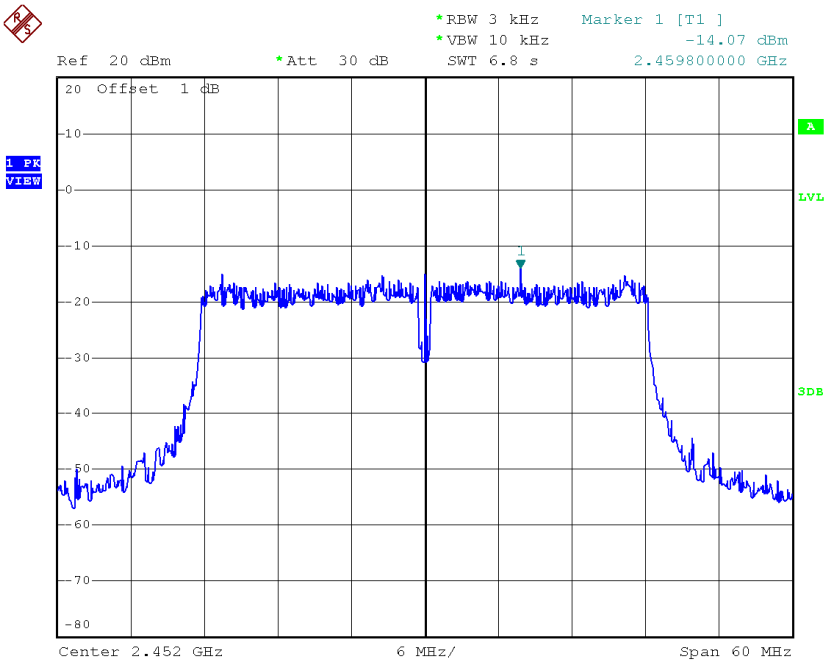
Date: 24.MAY.2015 17:15:39

TX CH06



Date: 24.MAY.2015 17:16:44

TX CH09



Date: 24.MAY.2015 17:17:59