FCC Radio Partial Test Report

FCC ID: WS2-WG7833B0

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

Project No.	:	1806T107A
Equipment	:	Wireless module
Test Model	:	WG7833-B0
Series Model	:	N/A
Applicant	:	Jorjin Technologies INC.
Address	:	17F., No 239, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City, 22161, TAIWAN, R.O.C.

Date of Receipt	:	Sep. 04, 2018
Date of Test	:	Sep. 04, 2018 ~ Oct. 08, 2018
Issued Date	:	Oct. 11, 2018
Tested by	:	BTL Inc.

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Testing Laboratory
0659

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 standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements in all the possible configurations as representative of its intended use.

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

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 11, 2018

1. CERTIFICATION

Equipment	:	Wireless module
Brand Name	:	Jorjin
Test Model	:	WG7833-B0
Series Model	:	N/A
Applicant	:	Jorjin Technologies INC.
Manufacturer	:	Jorjin Technologies INC.
Address	:	17F., No 239, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City, 22161, TAIWAN, R.O.C.
Date of Test	:	Sep. 04, 2018 ~ Oct. 08, 2018
Test Sample	:	Engineering Sample
Standard(s)	:	FCC Part15, Subpart C (15.247) ANSI C63.10-2013

The above equipment has been tested and found in 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-3-1806T107A) 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).

Test results included in this report is only for the WIFI 2.4GHz part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15, Subpart C (15.247)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	------
15.247(d) 15.209	Radiated emission	PASS	------
15.203	Antenna Requirement	PASS	------

Note:

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

(2) Accord to the EUT(Report Number: T150417W02-RP2 and model: WG7833-B0, WG7833BEM2A, WG7833BEM2B) has been certificated, Conducted and Radiated emission were criticized and reconfirmed in this report.

(3) Compared with the previous report (T150417W02-RP2), added one PCB type antennas.

2.1 TEST FACILITY

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

Conducted emission Test:

C05: (VCCI RN: C-14742; FCC RN:674415; FCC DN:TW0659)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB15: (VCCI RN: R-20020; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5)
No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB15: (VCCI RN: G-20031; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5)
No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

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 emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
C05	CISPR	150 kHz ~ 30MHz	2.68

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (3m)	CISPR	9kHz ~ 150kHz	2.82
		150kHz ~ 30MHz	2.58

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
CB15 (3m)	CISPR	30MHz ~ 200MHz	V	4.20
		30MHz ~ 200MHz	H	3.64
		200MHz ~ 1,000MHz	V	4.56
		200MHz ~ 1,000MHz	H	3.90

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
CB15 (3m)	CISPR	1GHz ~ 6GHz	V	4.46
		1GHz ~ 6GHz	H	4.40
		6GHz ~ 18GHz	V	3.88
		6GHz ~ 18GHz	H	4.00

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (1m)	CISPR	18 ~ 26.5 GHz	4.62
		26.5 ~ 40 GHz	5.12

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless module
Brand Name	Jorjin
Test Model	WG7833-B0
Series Model	N/A
Model Difference	N/A
Power Source	Powered from host device via USB Cable
Power Rating	DC 5V
Products Covered	N/A
Operation Frequency	2412~2472 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

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)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

3. Table for Filed Antenna:

Ant.	Brand	Model	Type	Connector	Gain (dBi)		
					2.4 GHz	Band 1	Band 4
1	Liteon	Locix	PCB	N/A	3.83	4.10	2.27

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 / CH01, CH06, CH11
Mode 2	TX G Mode / CH01, CH06, CH11
Mode 3	TX N-20MHZ Mode / CH01, CH06, CH11
Mode 4	TX N-40MHZ Mode / CH03, CH06, CH09
Mode 5	TX N-40MHZ Mode / CH09

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 N-40MHZ Mode / CH09

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX B Mode / CH01, CH06, CH11
Mode 2	TX G Mode / CH01, CH06, CH11
Mode 3	TX N-20MHZ Mode / CH01, CH06, CH11
Mode 4	TX N-40MHZ Mode / CH03, CH06, CH09

Note:

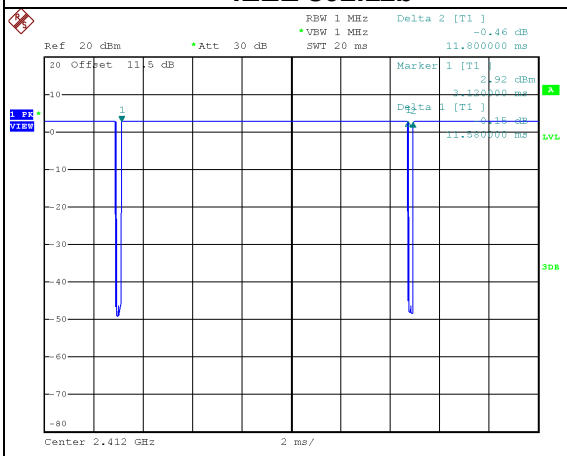
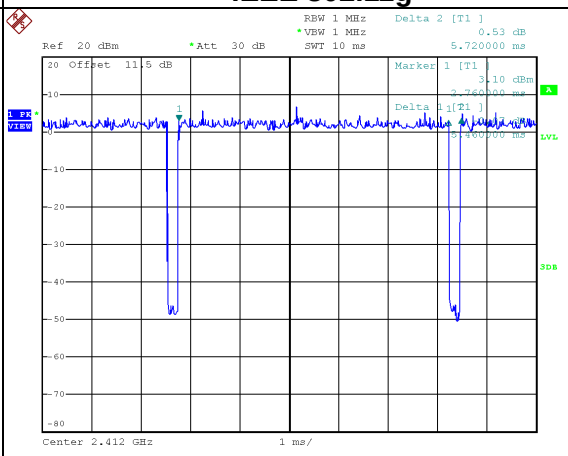
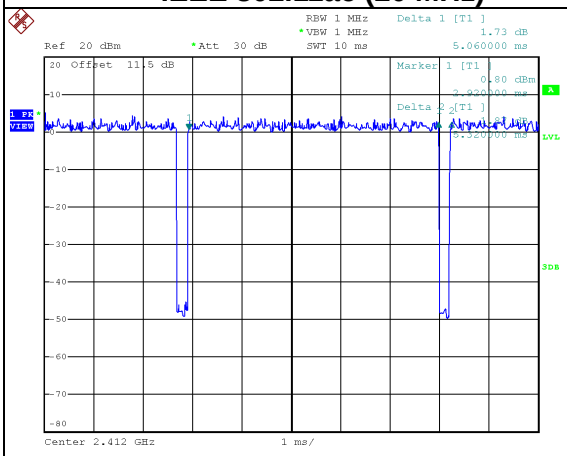
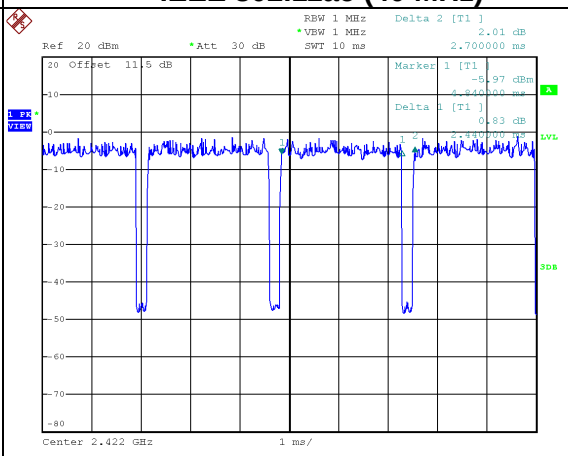
(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.

(3) For radiated emission below 1GHz test, the IEEE 802.11n (40 MHz) is found to be the worst case and recorded.

3.3 DUTY CYCLE

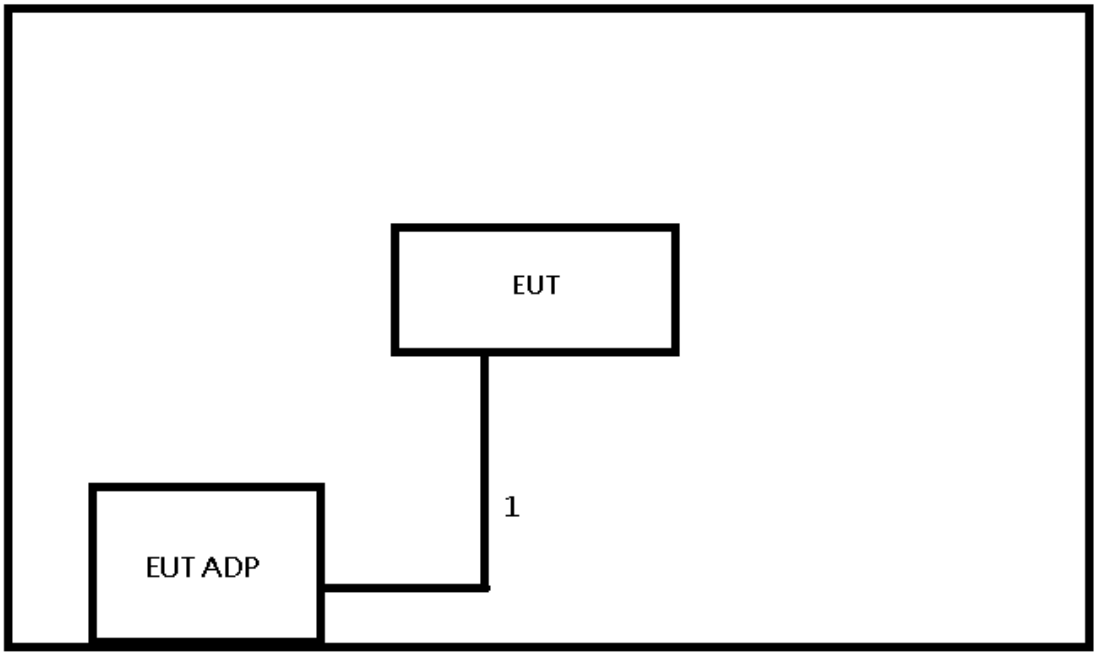
If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.

IEEE 802.11b	IEEE 802.11g
	
Duty cycle = 11.580 ms / 11.800 ms = 98.14 % Duty Factor = 10 * log(1 / 0.9814) = 0.08	Duty cycle = 5.460 ms / 5.720 ms = 95.45 % Duty Factor = 10 * log(1 / 0.9545) = 0.20
IEEE 802.11ac (20 MHz)	**IEEE 802.11ac (40 MHz)**
	
Duty cycle = 5.060 ms / 5.320 ms = 95.11 % Duty Factor = 10 * log(1 / 0.9511) = 0.22	Duty cycle = 2.440 ms / 2.700 ms = 90.37 % Duty Factor = 10 * log(1 / 0.9037) = 0.44

Note:
For IEEE 802.11g and IEEE 802.11n (20 MHz):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11n (40 MHz):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

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

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	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 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

(2) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment 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.

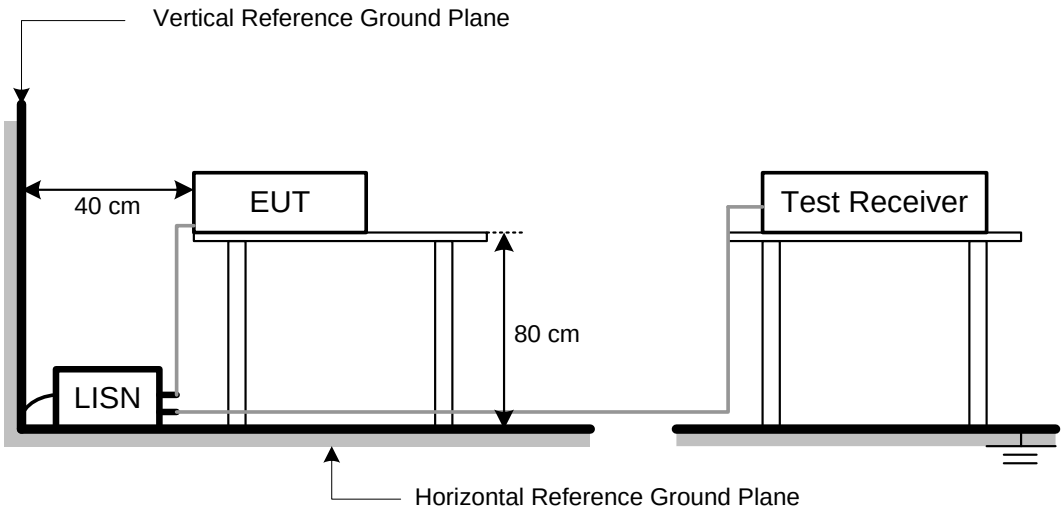
d. LISN at least 80 cm from nearest part of EUT chassis.

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



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 45%
Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Appendix A.

Remark:

(1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform.In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
(2) Measuring frequency range from 150KHz to 30MHz.
(3) " N/A" denotes test is not applicable to this device.

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 m)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

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

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

(4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

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

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

4.2.2 TEST PROCEDURE

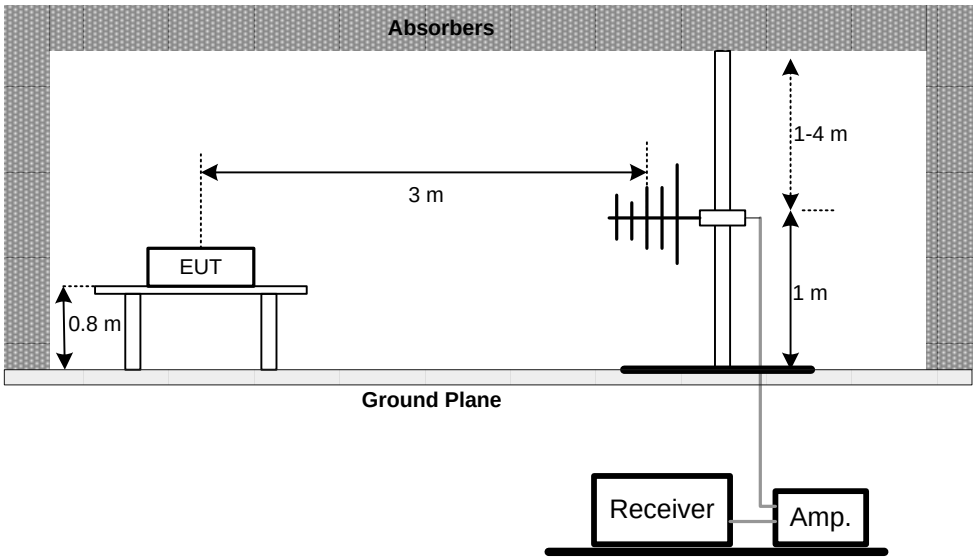
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 m above the ground at a 3 m semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 m semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting 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.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

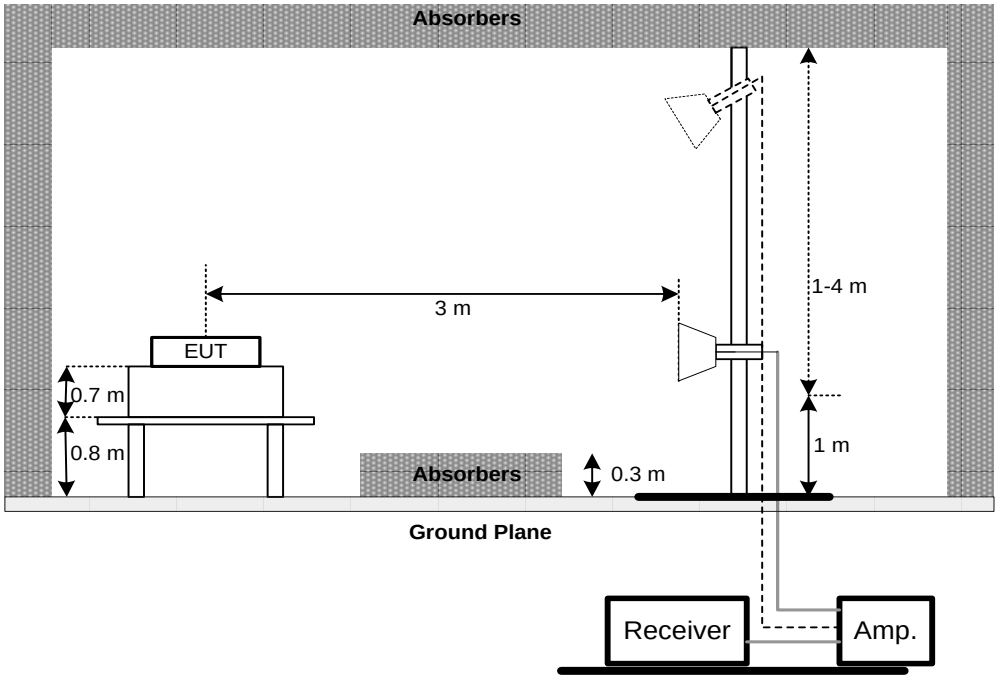
No deviation

4.2.4 TEST SETUP

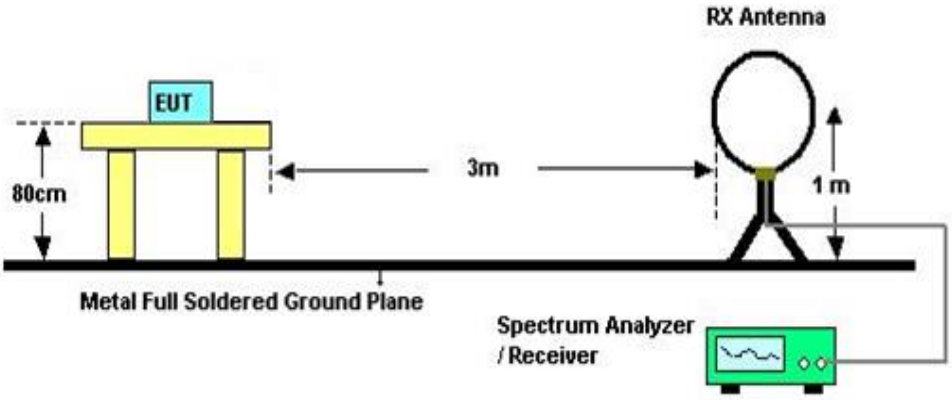
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 70% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix 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 Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Appendix 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. MEASUREMENT INSTRUMENTS LIST

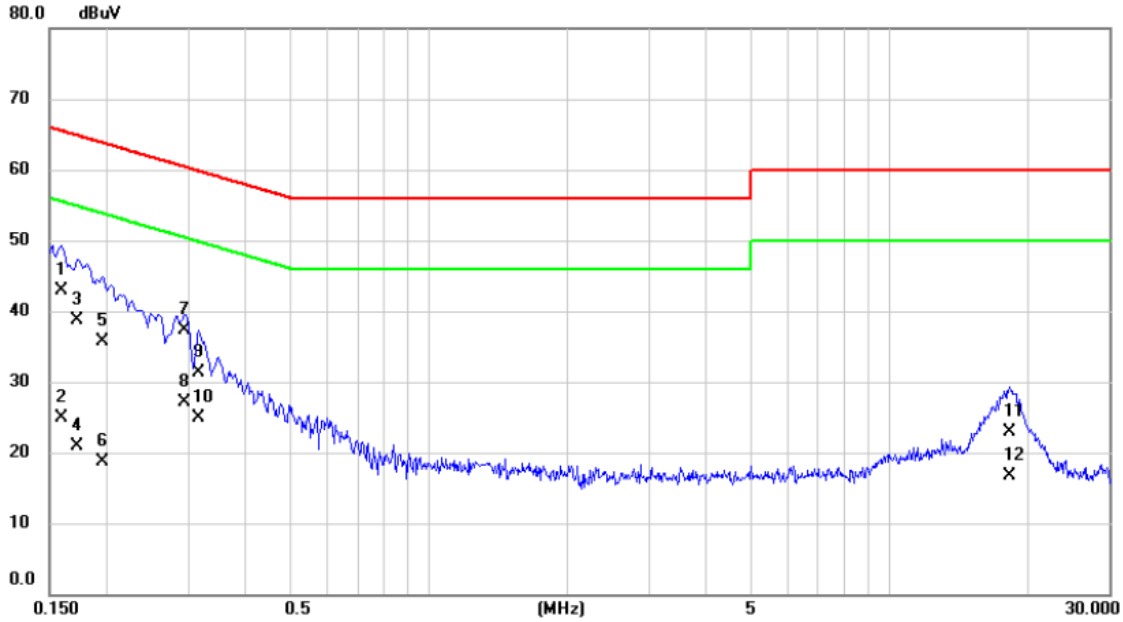
Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Mar. 08, 2019
2	Test Cable	EMCI	EMCCFD300-BM-BMR-6000	170715	Aug. 07, 2019
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 10, 2018
4	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMCI	012645B	980267	Feb. 27, 2019
2	Preamplifier	EMCI	EMC02325	980217	Dec. 27, 2018
3	Preamplifier	EMCI	EMC2654045	980030	Feb. 13, 2019
4	Test Cable	EMCI	EMC104-SM-SM-8000	8m	Jan. 03, 2019
5	Test Cable	EMCI	EMC104-SM-SM-800	150207	Jan. 03, 2019
6	Test Cable	EMCI	EEMC104-SM-SM-3000	151205	Jan. 03, 2019
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 08, 2019
8	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 21, 2019
9	Loop Ant	EMCI	LPA600	274	May 03, 2019
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Feb. 27, 2019
11	Horn Ant	Schwarzbeck	BBHA 9170	187	Dec. 05, 2018
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 15, 2019
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 15, 2019

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

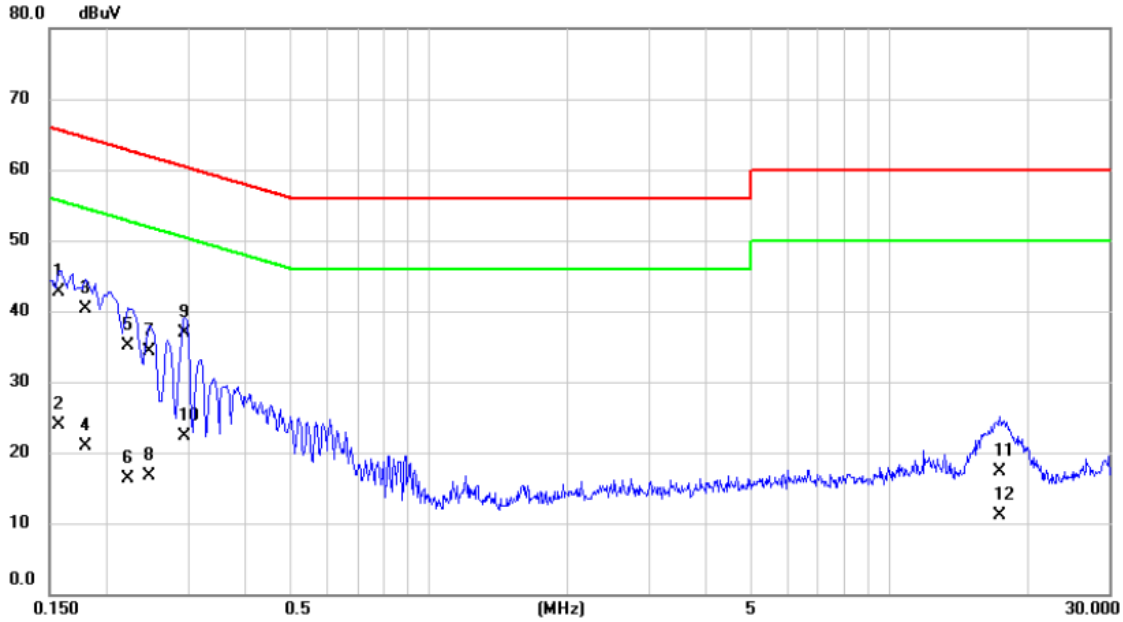
APPENDIX A – CONDUCTED EMISSION

Test Mode	TX N-40MHZ Mode 2452MHz	Phase	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1590	33.20	9.63	42.83	65.52	-22.69	QP	
2		0.1590	15.20	9.63	24.83	55.52	-30.69	AVG	
3		0.1725	29.00	9.63	38.63	64.84	-26.21	QP	
4		0.1725	11.20	9.63	20.83	54.84	-34.01	AVG	
5		0.1950	26.10	9.63	35.73	63.82	-28.09	QP	
6		0.1950	9.10	9.63	18.73	53.82	-35.09	AVG	
7		0.2940	27.70	9.66	37.36	60.41	-23.05	QP	
8		0.2940	17.50	9.66	27.16	50.41	-23.25	AVG	
9		0.3165	21.60	9.65	31.25	59.80	-28.55	QP	
10		0.3165	15.20	9.65	24.85	49.80	-24.95	AVG	
11		18.2625	13.00	9.96	22.96	60.00	-37.04	QP	
12		18.2625	6.70	9.96	16.66	50.00	-33.34	AVG	

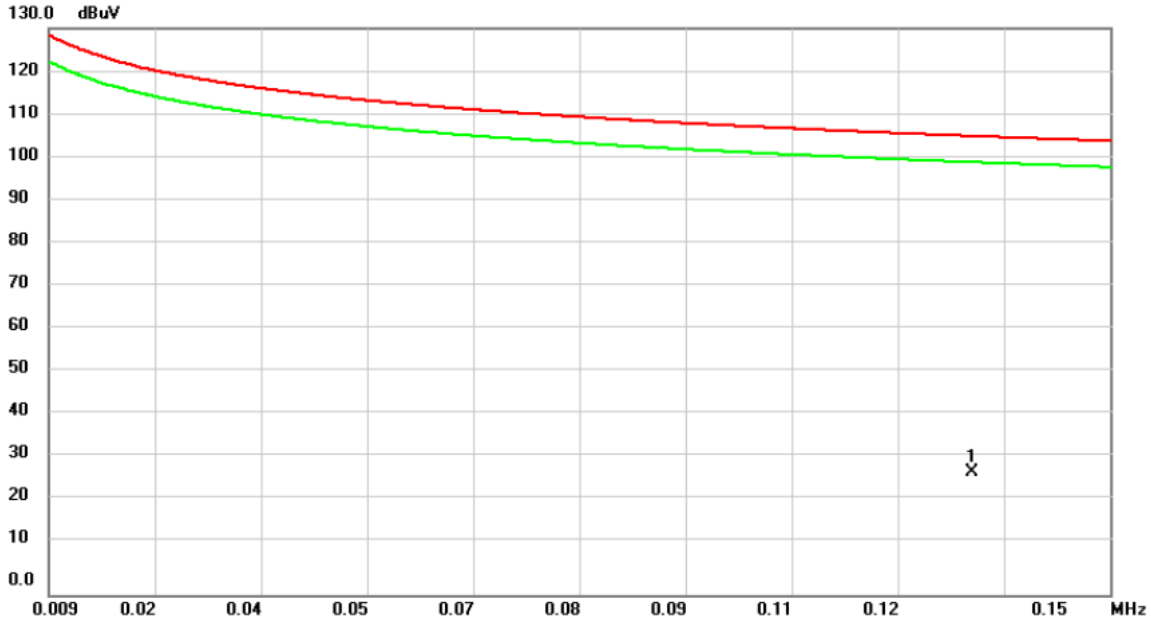
Test Mode	TX N-40MHZ Mode 2452MHz	Phase	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1568	33.10	9.62	42.72	65.63	-22.91	QP	
2		0.1568	14.20	9.62	23.82	55.63	-31.81	AVG	
3		0.1793	30.70	9.61	40.31	64.52	-24.21	QP	
4		0.1793	11.20	9.61	20.81	54.52	-33.71	AVG	
5		0.2220	25.50	9.62	35.12	62.74	-27.62	QP	
6		0.2220	6.70	9.62	16.32	52.74	-36.42	AVG	
7		0.2468	24.60	9.62	34.22	61.86	-27.64	QP	
8		0.2468	7.00	9.62	16.62	51.86	-35.24	AVG	
9		0.2940	27.20	9.64	36.84	60.41	-23.57	QP	
10		0.2940	12.60	9.64	22.24	50.41	-28.17	AVG	
11		17.3760	7.30	9.96	17.26	60.00	-42.74	QP	
12		17.3760	1.10	9.96	11.06	50.00	-38.94	AVG	

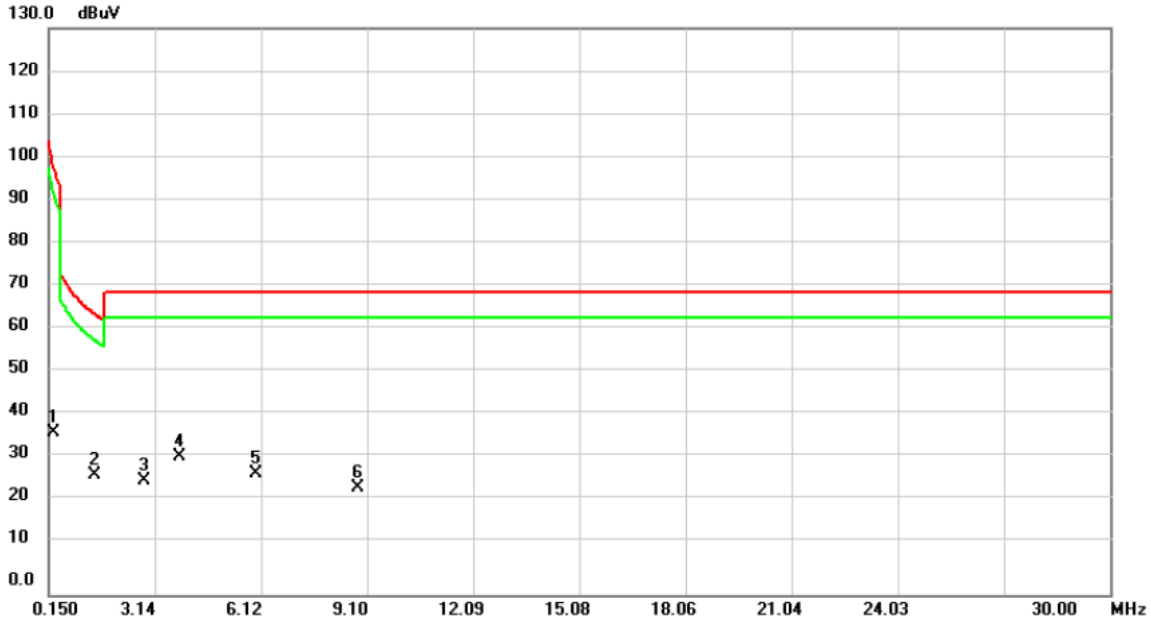
APPENDIX B- RADIATED EMISSION
(9KHZ to 30MHZ)

Test Mode	TX N-40MHZ Mode 2452MHz	Azimuth Angle	90°



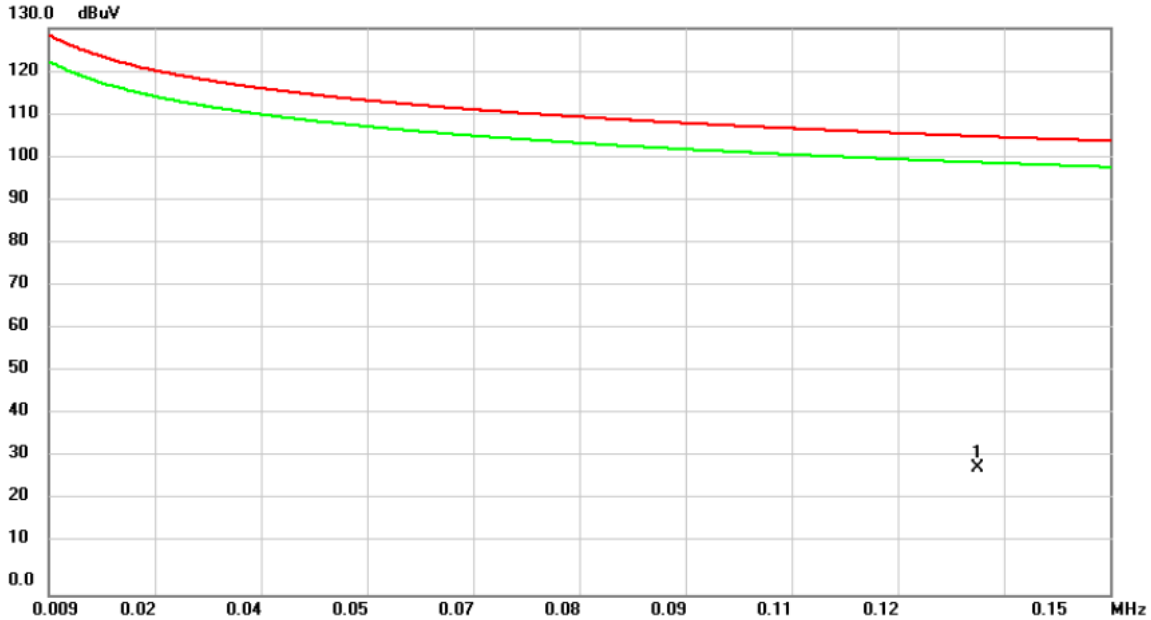
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1316	13.91	14.24	28.15	105.22	-77.07	peak	

Test Mode	TX N-40MHZ Mode 2452MHz	Azimuth Angle	90°



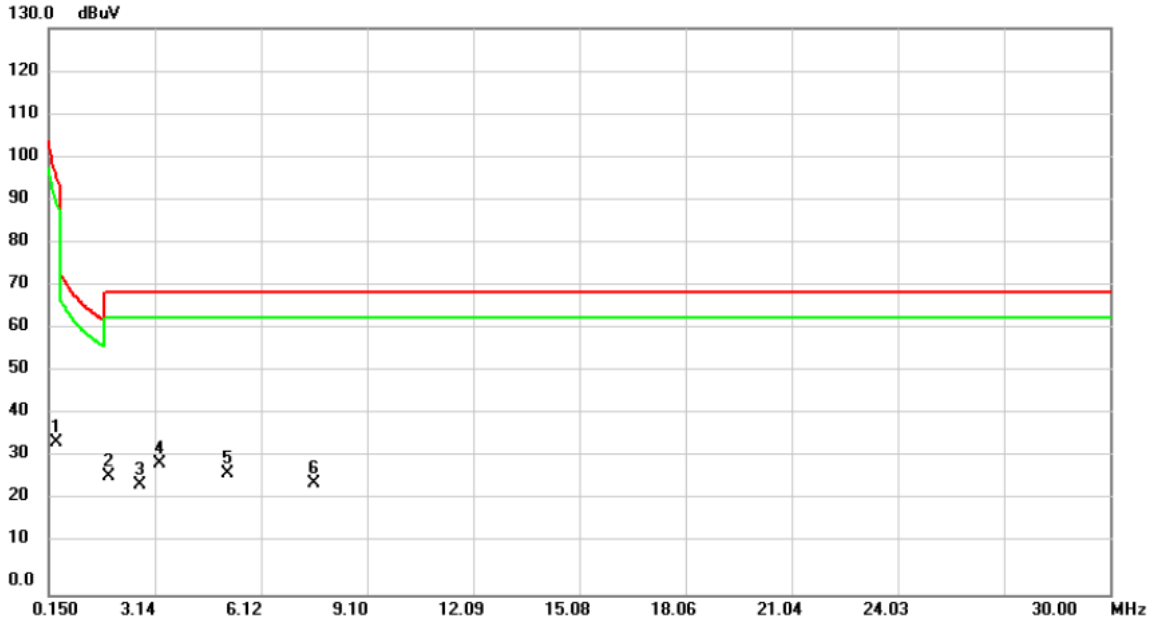
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2694	29.24	8.03	37.27	99.00	-61.73	peak	
2	*	1.4633	28.98	-1.55	27.43	64.30	-36.87	peak	
3		2.8166	29.74	-3.53	26.21	69.54	-43.33	peak	
4		3.8116	35.33	-3.77	31.56	69.54	-37.98	peak	
5		5.9608	31.93	-4.02	27.91	69.54	-41.63	peak	
6		8.8264	29.03	-4.65	24.38	69.54	-45.16	peak	

Test Mode	TX N-40MHZ Mode 2452MHz	Azimuth Angle	0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1324	14.79	14.19	28.98	105.17	-76.19	peak	

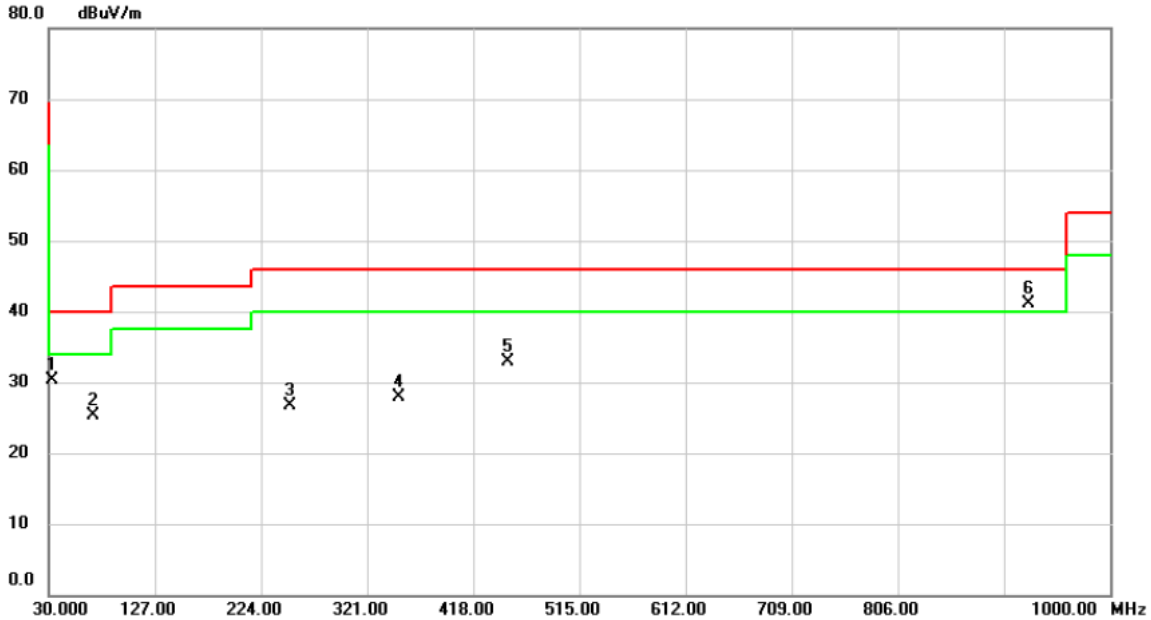
Test Mode	TX N-40MHZ Mode 2452MHz	Azimuth Angle	0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3490	29.09	5.95	35.04	96.75	-61.71	peak	
2		1.8216	29.72	-2.48	27.24	69.54	-42.30	peak	
3		2.6972	28.75	-3.44	25.31	69.54	-44.23	peak	
4	*	3.2544	33.78	-3.70	30.08	69.54	-39.46	peak	
5		5.1648	31.70	-3.95	27.75	69.54	-41.79	peak	
6		7.5926	29.80	-4.24	25.56	69.54	-43.98	peak	

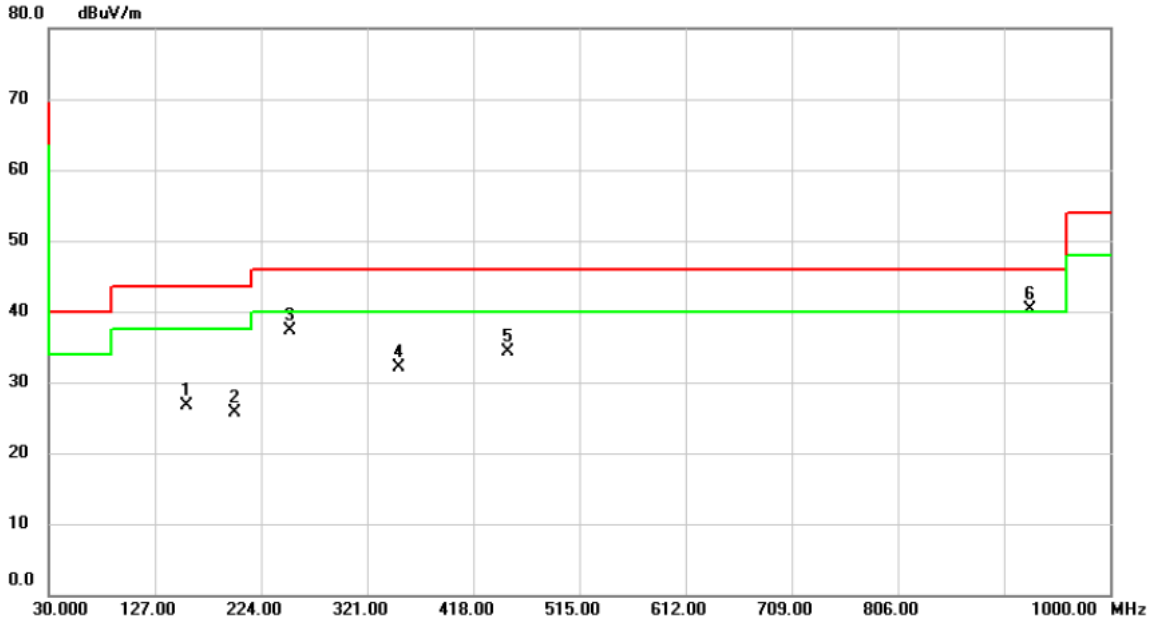
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode	TX N-40MHZ Mode 2452MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		32.9100	39.32	-9.04	30.28	40.00	-9.72	peak	
2		70.7400	36.14	-10.83	25.31	40.00	-14.69	peak	
3		250.1900	35.83	-9.10	26.73	46.00	-19.27	peak	
4		350.1000	34.14	-6.20	27.94	46.00	-18.06	peak	
5		450.0100	36.69	-3.80	32.89	46.00	-13.11	peak	
6	*	925.3100	35.62	5.39	41.01	46.00	-4.99	peak	

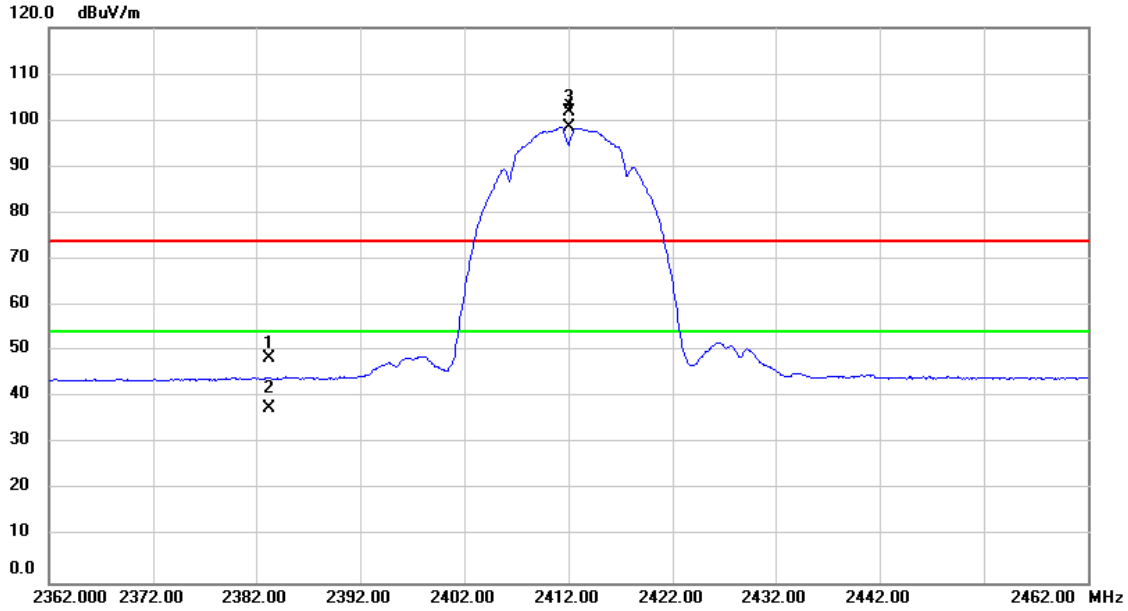
Test Mode	TX N-40MHZ Mode 2452MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		156.1000	35.25	-8.57	26.68	43.50	-16.82	peak	
2		199.7500	36.56	-10.90	25.66	43.50	-17.84	peak	
3		250.1900	46.38	-9.10	37.28	46.00	-8.72	peak	
4		350.1000	38.38	-6.20	32.18	46.00	-13.82	peak	
5		450.0100	38.18	-3.80	34.38	46.00	-11.62	peak	
6	*	926.2800	34.97	5.41	40.38	46.00	-5.62	peak	

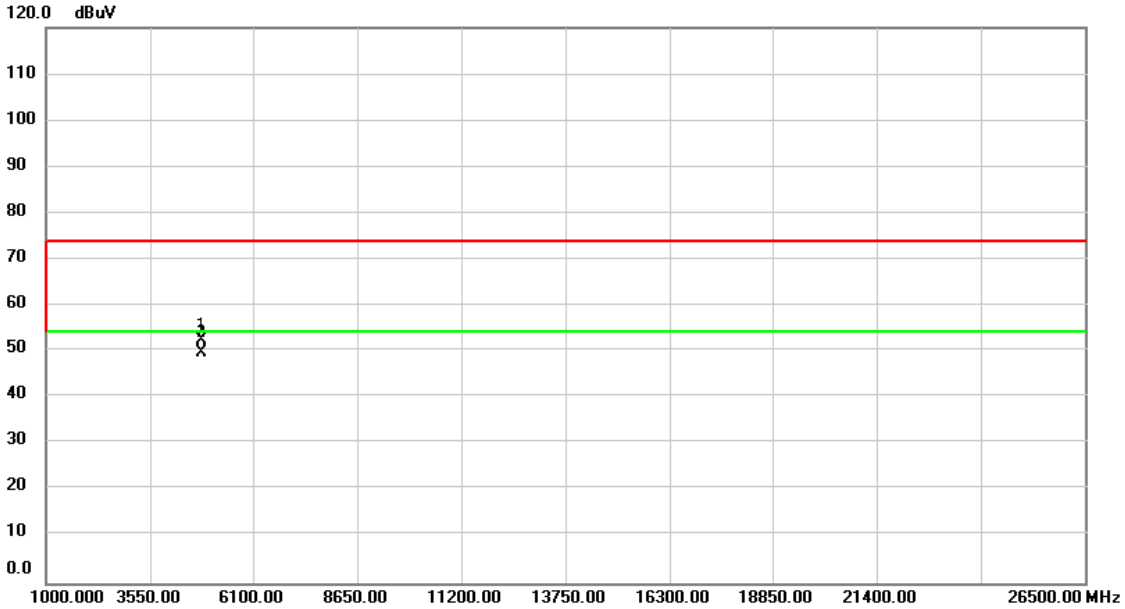
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode	TX B MODE _2412 MHz	Polarization	Vertical



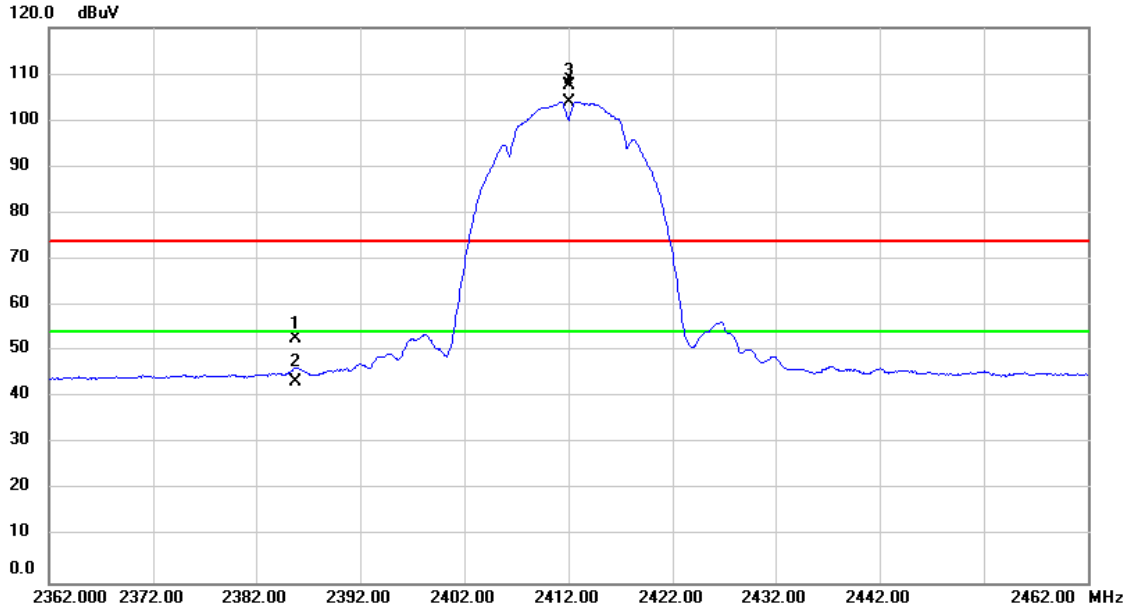
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2383.224	17.67	30.82	48.49	74.00	-25.51	peak	
2		2383.224	6.82	30.82	37.64	54.00	-16.36	AVG	
3	X	2412.000	70.79	30.92	101.71	74.00	27.71	peak	No Limit
4	*	2412.000	67.55	30.92	98.47	54.00	44.47	AVG	No Limit

Test Mode	TX B MODE _2412 MHz	Polarization	Vertical



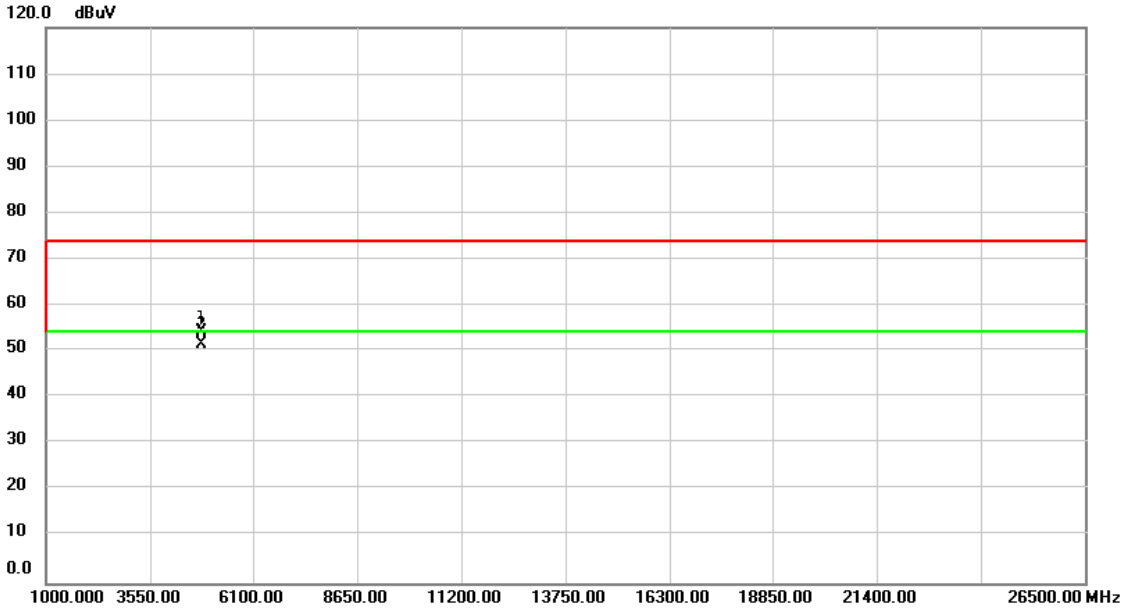
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		4824.000	63.91	-11.48	52.43	74.00	-21.57	peak	
2	*	4824.000	61.11	-11.48	49.63	54.00	-4.37	AVG	

Test Mode	TX B MODE _2412 MHz	Polarization	Horizontal



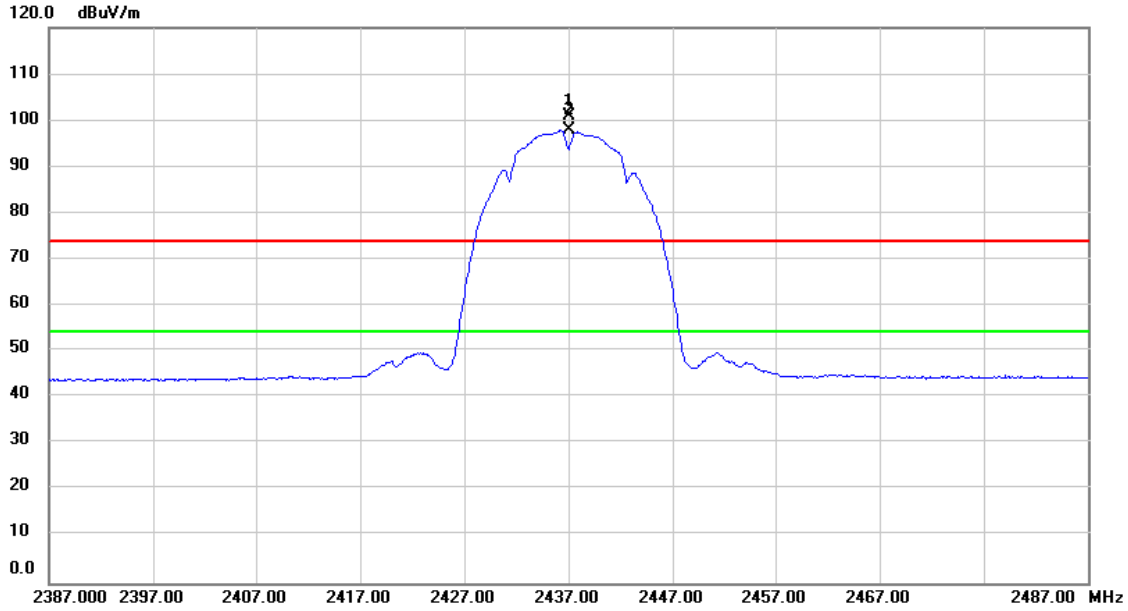
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2385.828	21.83	30.83	52.66	74.00	-21.34	peak	
2		2385.828	12.61	30.83	43.44	54.00	-10.56	AVG	
3	X	2412.000	76.56	30.92	107.48	74.00	33.48	peak	No Limit
4	*	2412.000	73.00	30.92	103.92	54.00	49.92	AVG	No Limit

Test Mode	TX B MODE _2412 MHz	Polarization	Horizontal



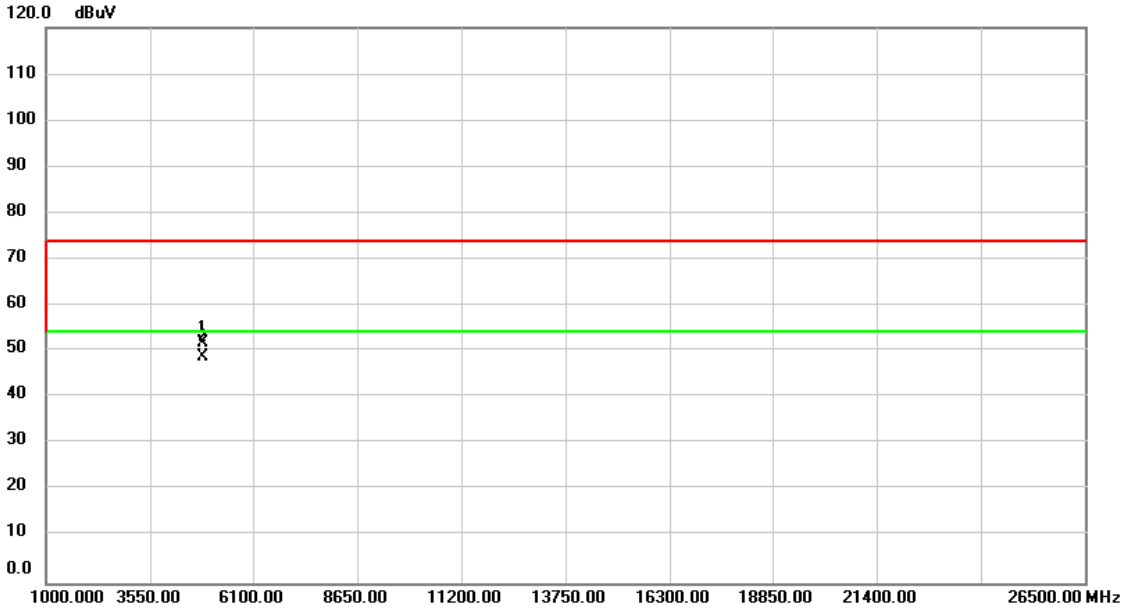
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		4824.000	65.56	-11.48	54.08	74.00	-19.92	peak	
2	*	4824.000	63.01	-11.48	51.53	54.00	-2.47	AVG	

Test Mode	TX B MODE _2437 MHz	Polarization	Vertical



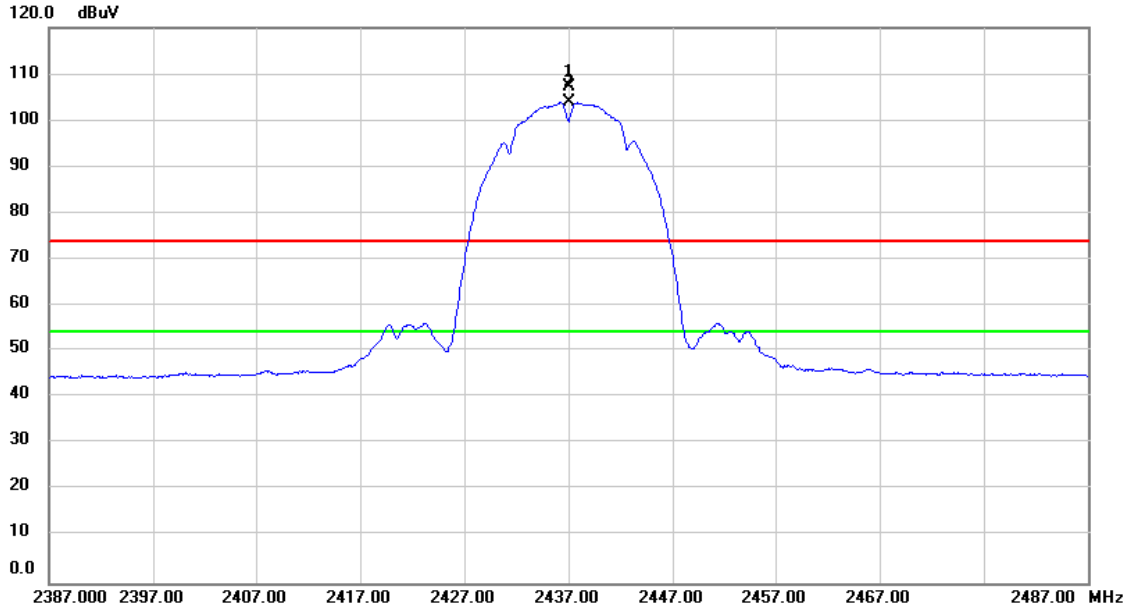
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.000	70.01	31.01	101.02	74.00	27.02	peak	No Limit
2	*	2437.000	66.83	31.01	97.84	54.00	43.84	AVG	No Limit

Test Mode	TX B MODE _2437 MHz	Polarization	Vertical



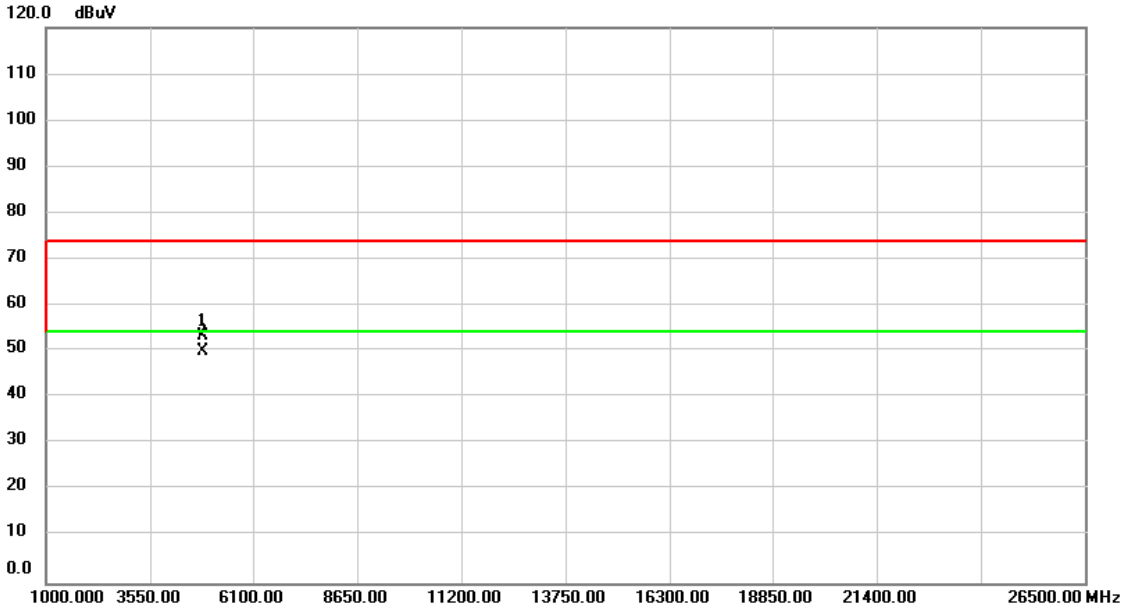
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		4874.000	63.18	-11.42	51.76	74.00	-22.24	peak	
2	*	4874.000	60.22	-11.42	48.80	54.00	-5.20	AVG	

Test Mode	TX B MODE _2437 MHz	Polarization	Horizontal



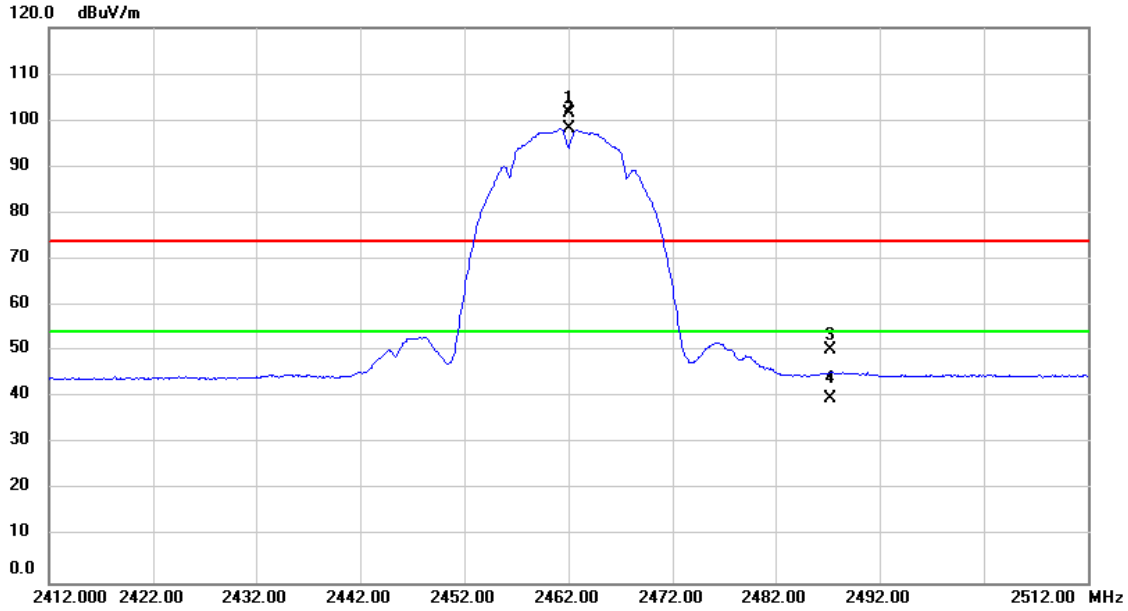
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	X	2437.000	76.30	31.01	107.31	74.00	33.31	peak	No Limit
2	*	2437.000	72.86	31.01	103.87	54.00	49.87	AVG	No Limit

Test Mode	TX B MODE _2437 MHz	Polarization	Horizontal



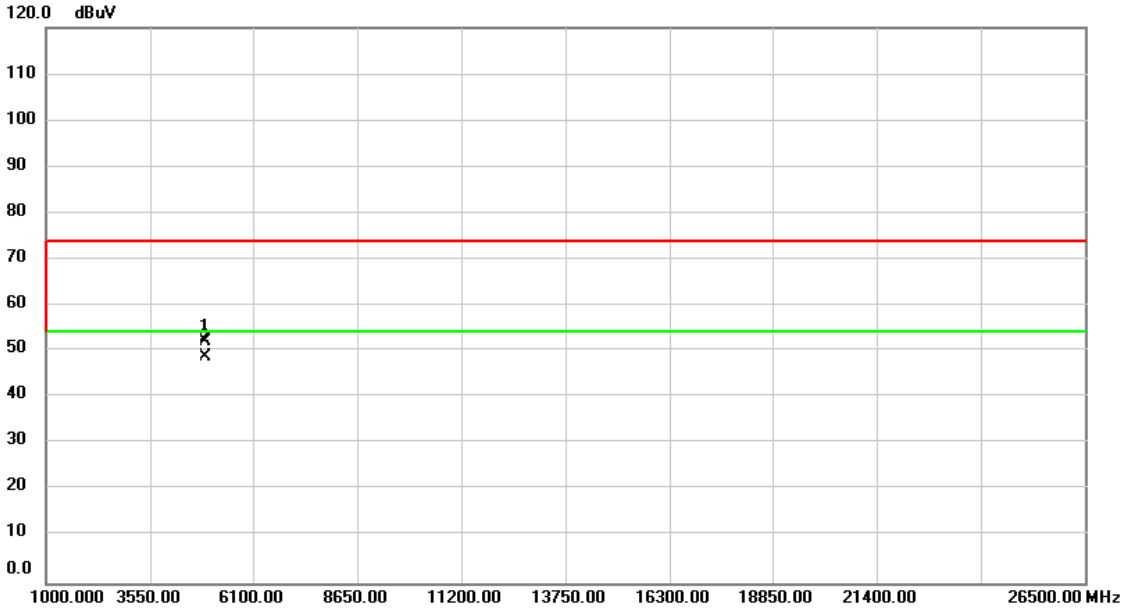
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		4874.000	64.59	-11.42	53.17	74.00	-20.83	peak	
2	*	4874.000	61.35	-11.42	49.93	54.00	-4.07	AVG	

Test Mode	TX B MODE _2462 MHz	Polarization	Vertical



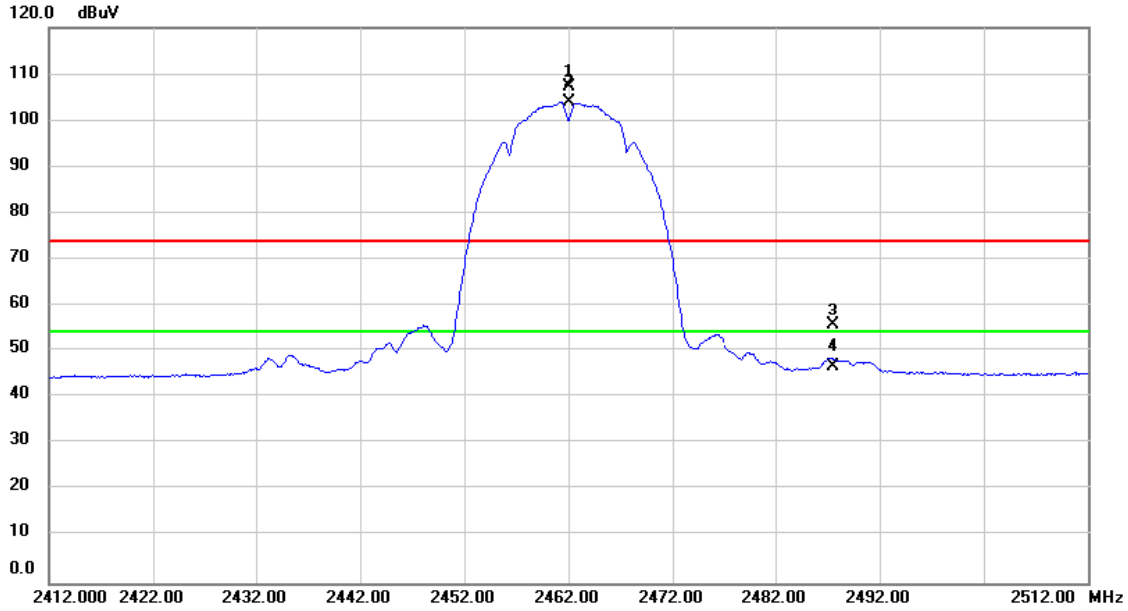
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2462.000	70.33	31.09	101.42	74.00	27.42	peak	No Limit
2	*	2462.000	67.08	31.09	98.17	54.00	44.17	AVG	No Limit
3		2487.328	19.12	31.18	50.30	74.00	-23.70	peak	
4		2487.328	8.59	31.18	39.77	54.00	-14.23	AVG	

Test Mode	TX B MODE _2462 MHz	Polarization	Vertical



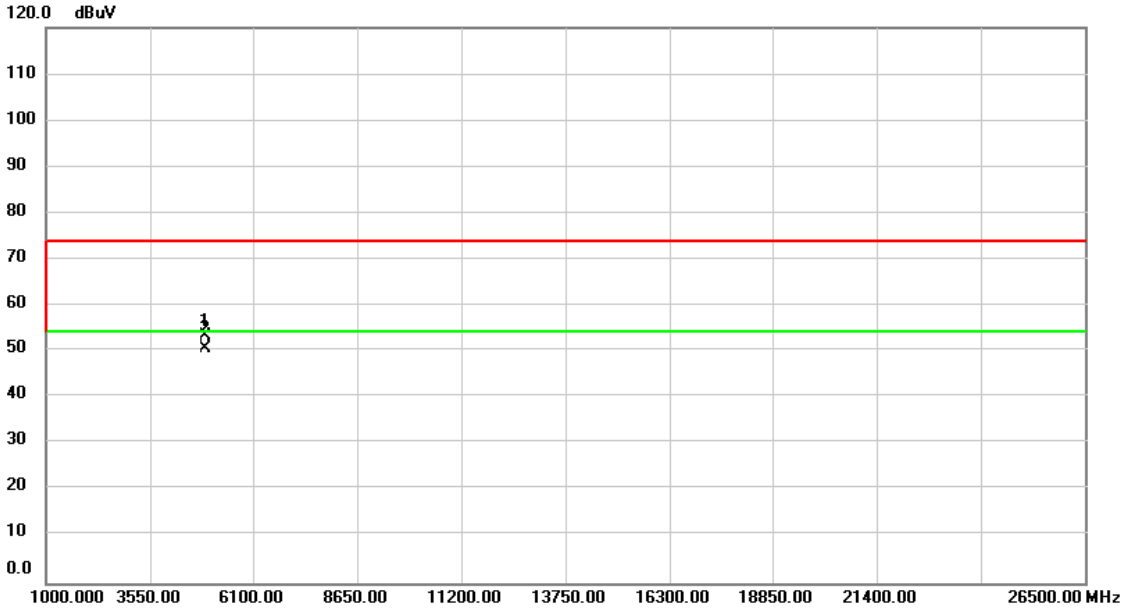
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		4924.000	63.36	-11.37	51.99	74.00	-22.01	peak	
2	*	4924.000	60.12	-11.37	48.75	54.00	-5.25	AVG	

Test Mode	TX B MODE _2462 MHz	Polarization	Horizontal



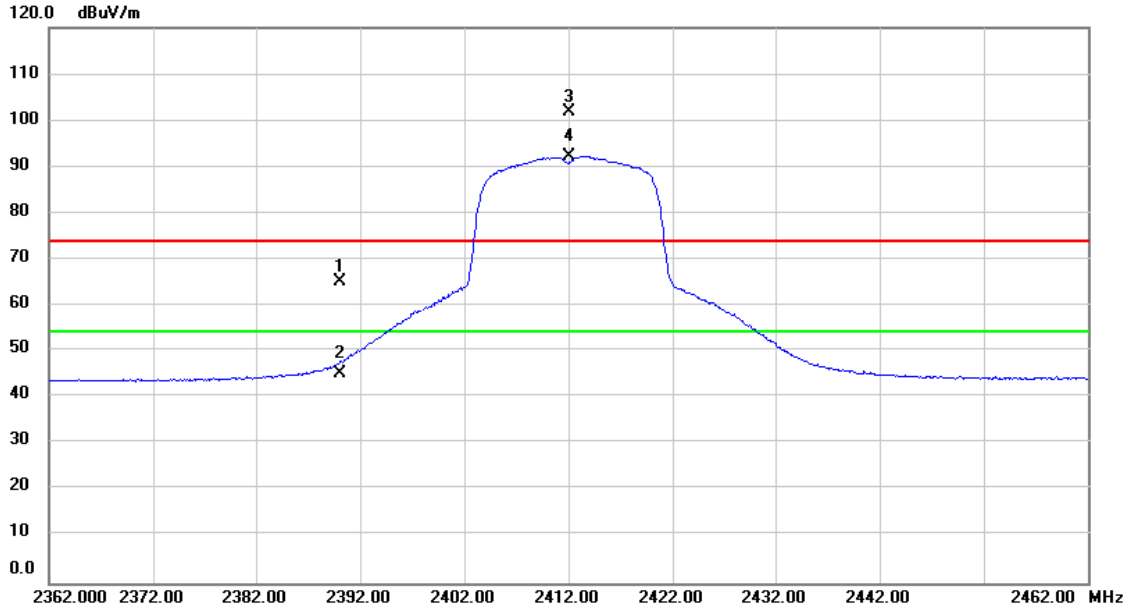
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	X	2462.000	76.22	31.09	107.31	74.00	33.31	peak	No Limit
2	*	2462.000	72.79	31.09	103.88	54.00	49.88	AVG	No Limit
3		2487.559	24.58	31.19	55.77	74.00	-18.23	peak	
4		2487.559	15.54	31.19	46.73	54.00	-7.27	AVG	

Test Mode	TX B MODE _2462 MHz	Polarization	Horizontal



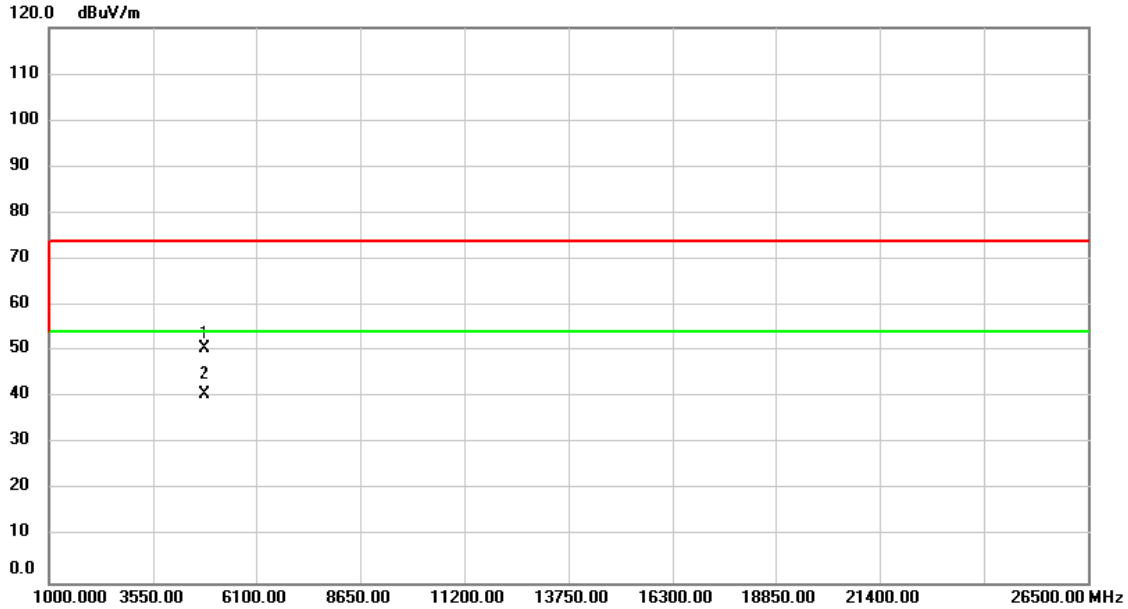
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		4924.000	64.68	-11.37	53.31	74.00	-20.69	peak	
2	*	4924.000	61.79	-11.37	50.42	54.00	-3.58	AVG	

Test Mode	TX G MODE _2412 MHz	Polarization	Vertical



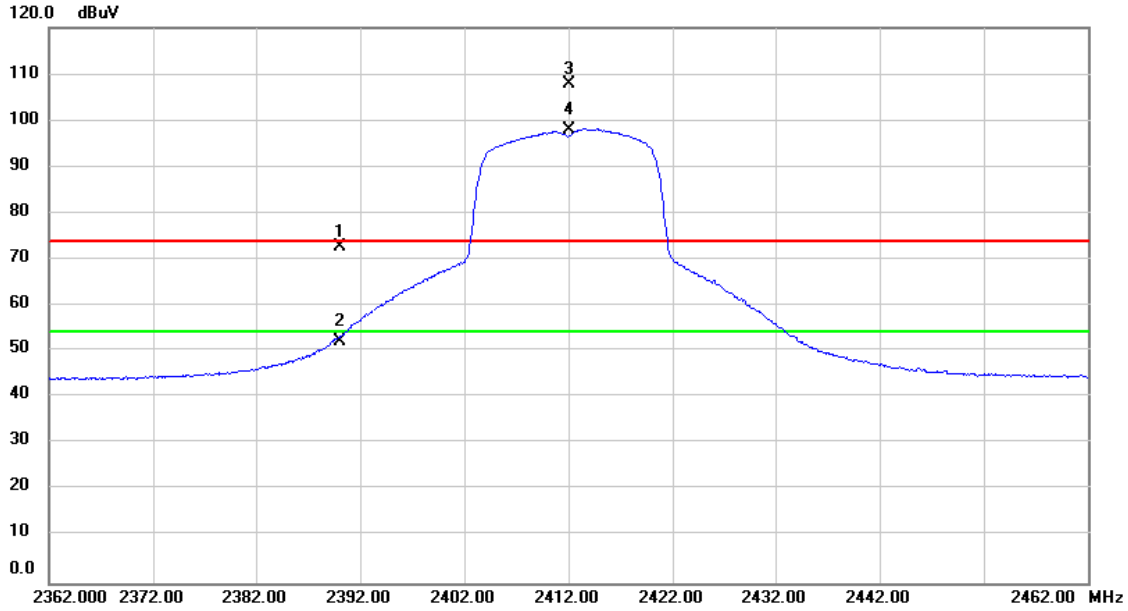
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	34.29	30.84	65.13	74.00	-8.87	peak	
2		2390.000	14.26	30.84	45.10	54.00	-8.90	AVG	
3	X	2412.000	70.94	30.92	101.86	74.00	27.86	peak	No Limit
4	*	2412.000	61.32	30.92	92.24	54.00	38.24	AVG	No Limit

Test Mode	TX G MODE _2412 MHz	Polarization	Vertical



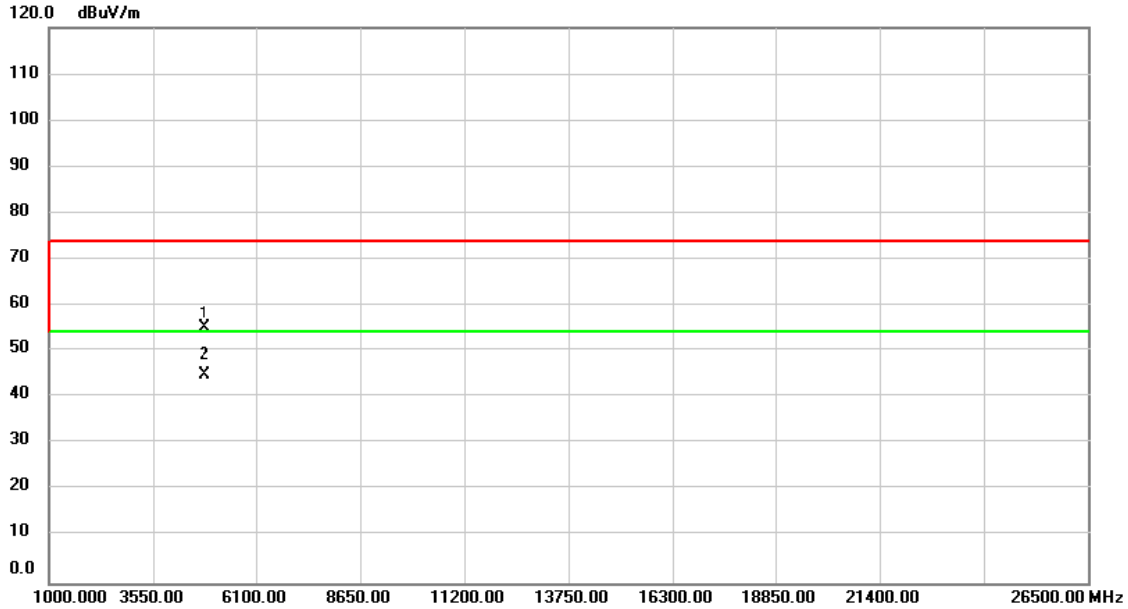
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	61.98	-11.48	50.50	74.00	-23.50	peak	
2	*	4824.000	52.06	-11.48	40.58	54.00	-13.42	AVG	

Test Mode	TX G MODE _2412 MHz	Polarization	Horizontal



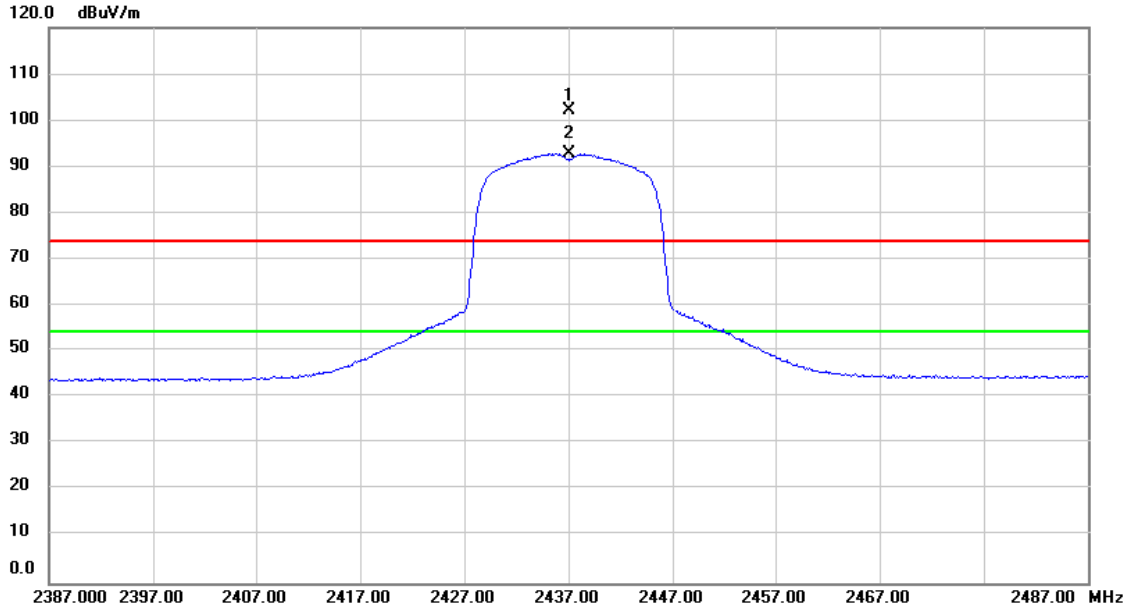
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2390.000	41.99	30.84	72.83	74.00	-1.17	peak	
2		2390.000	21.31	30.84	52.15	54.00	-1.85	AVG	
3	X	2412.000	76.99	30.92	107.91	74.00	33.91	peak	No Limit
4	*	2412.000	67.05	30.92	97.97	54.00	43.97	AVG	No Limit

Test Mode	TX G MODE _2412 MHz	Polarization	Horizontal



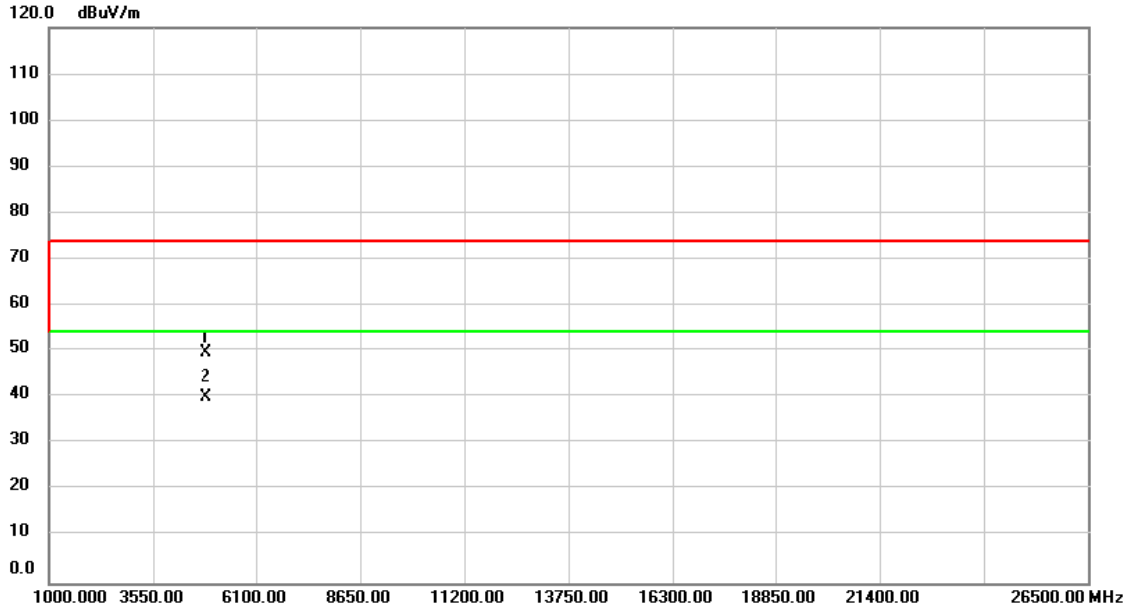
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	66.53	-11.48	55.05	74.00	-18.95	peak	
2	*	4824.000	56.33	-11.48	44.85	54.00	-9.15	AVG	

Test Mode	TX G MODE _2437 MHz	Polarization	Vertical



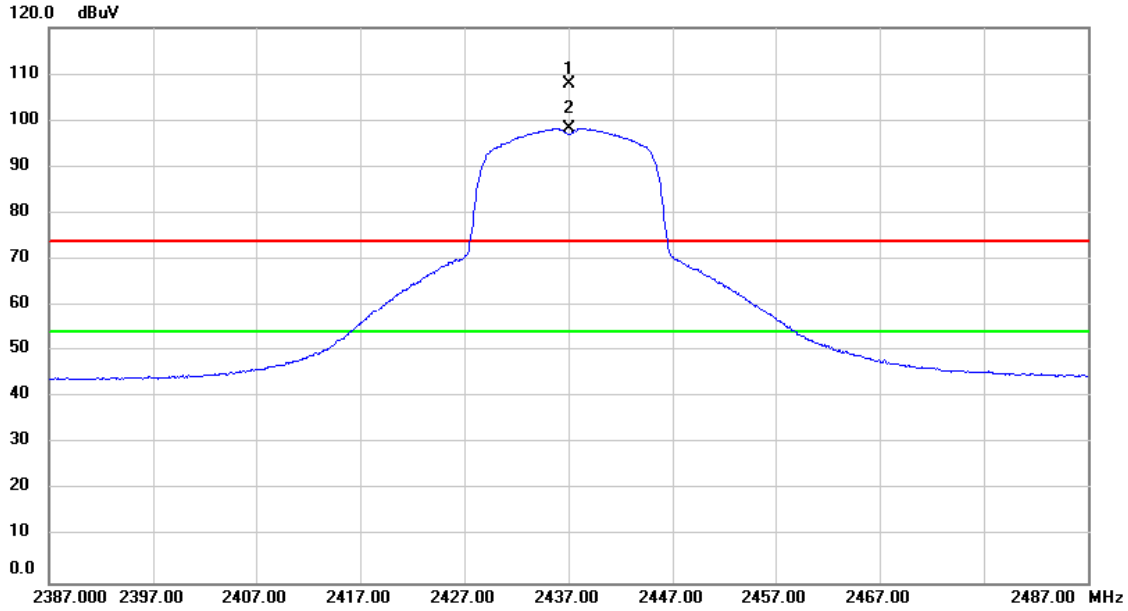
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.000	71.07	31.01	102.08	74.00	28.08	peak	No Limit
2	*	2437.000	61.78	31.01	92.79	54.00	38.79	AVG	No Limit

Test Mode	TX G MODE _2437 MHz	Polarization	Vertical



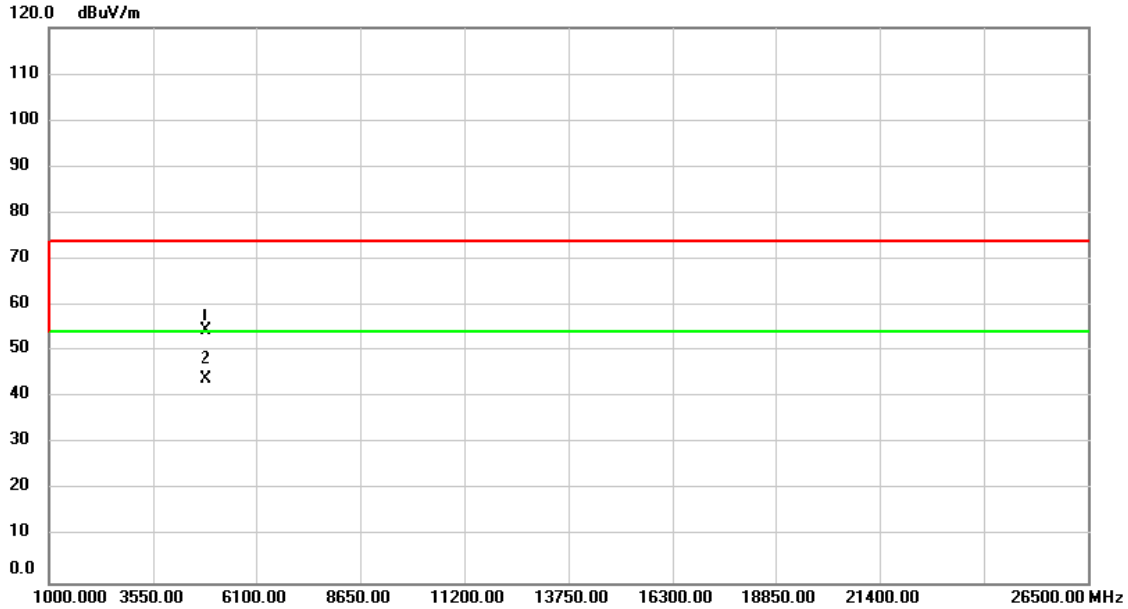
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	60.99	-11.42	49.57	74.00	-24.43	peak	
2	*	4874.000	51.38	-11.42	39.96	54.00	-14.04	AVG	

Test Mode	TX G MODE _2437 MHz	Polarization	Horizontal



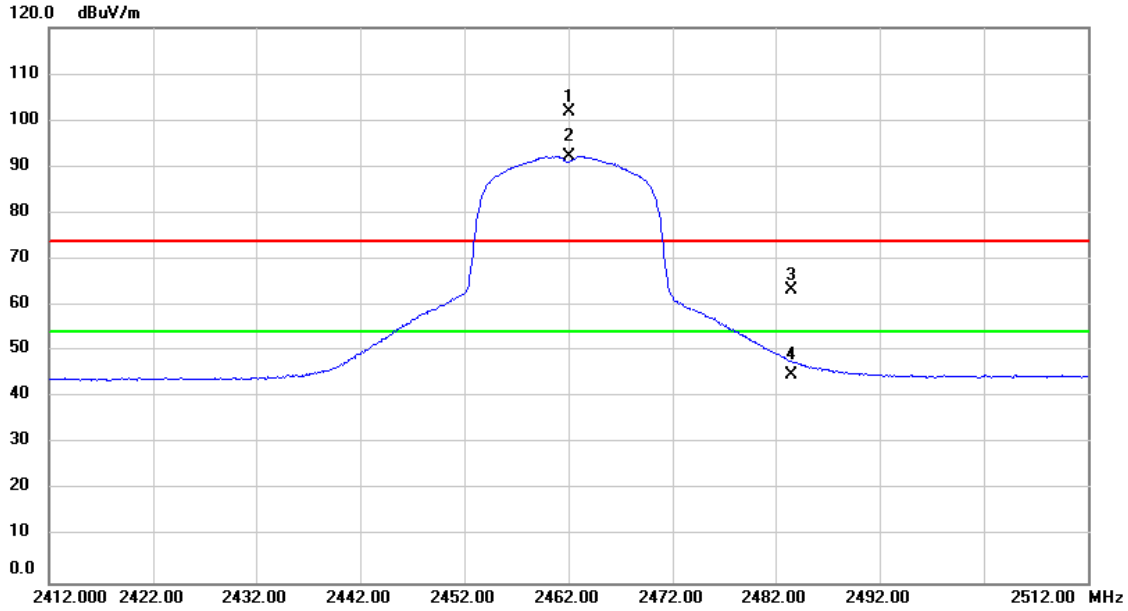
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	X	2437.000	76.96	31.01	107.97	74.00	33.97	peak	No Limit
2	*	2437.000	67.18	31.01	98.19	54.00	44.19	AVG	No Limit

Test Mode	TX G MODE _2437 MHz	Polarization	Horizontal



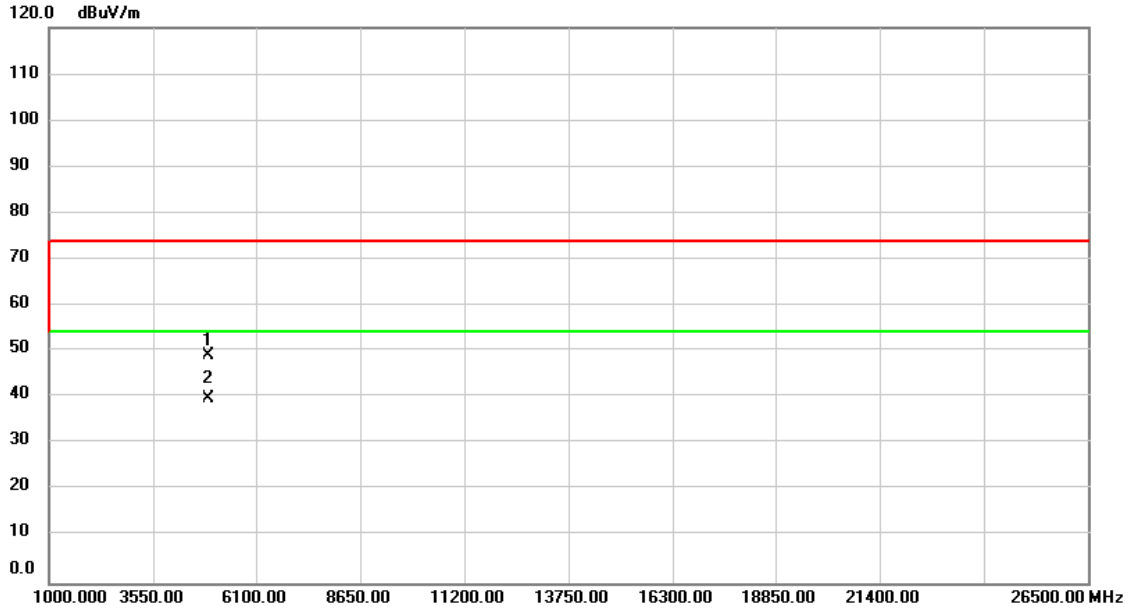
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	65.85	-11.42	54.43	74.00	-19.57	peak	
2	*	4874.000	55.23	-11.42	43.81	54.00	-10.19	AVG	

Test Mode	TX G MODE _2462 MHz	Polarization	Vertical



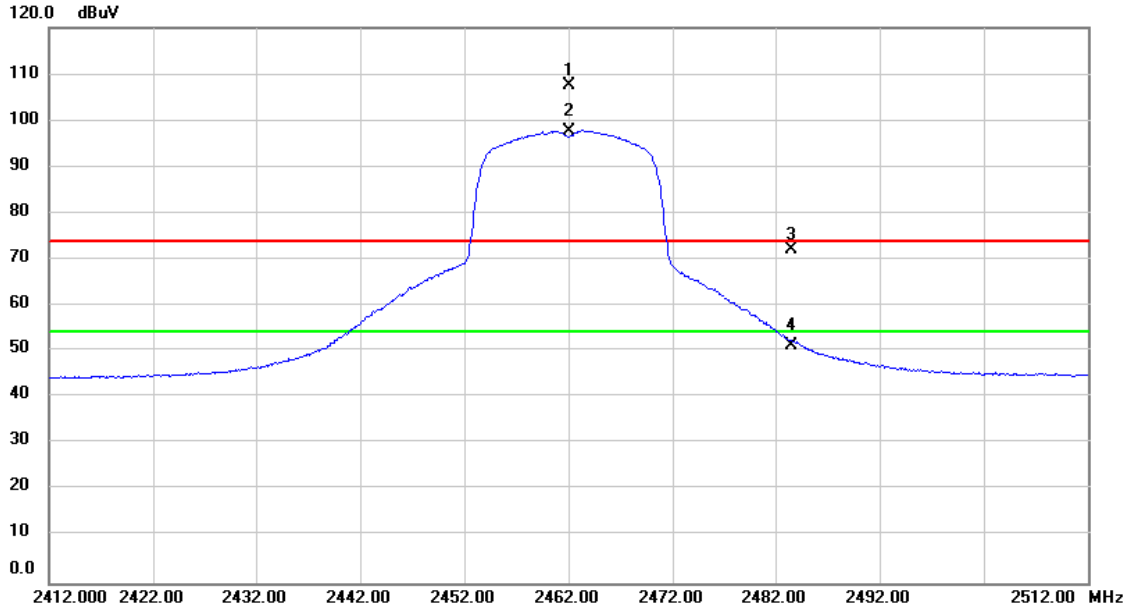
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2462.000	70.84	31.09	101.93	74.00	27.93	peak	No Limit
2	*	2462.000	61.22	31.09	92.31	54.00	38.31	AVG	No Limit
3		2483.582	32.43	31.17	63.60	74.00	-10.40	peak	
4		2483.582	13.74	31.17	44.91	54.00	-9.09	AVG	

Test Mode	TX G MODE _2462 MHz	Polarization	Vertical



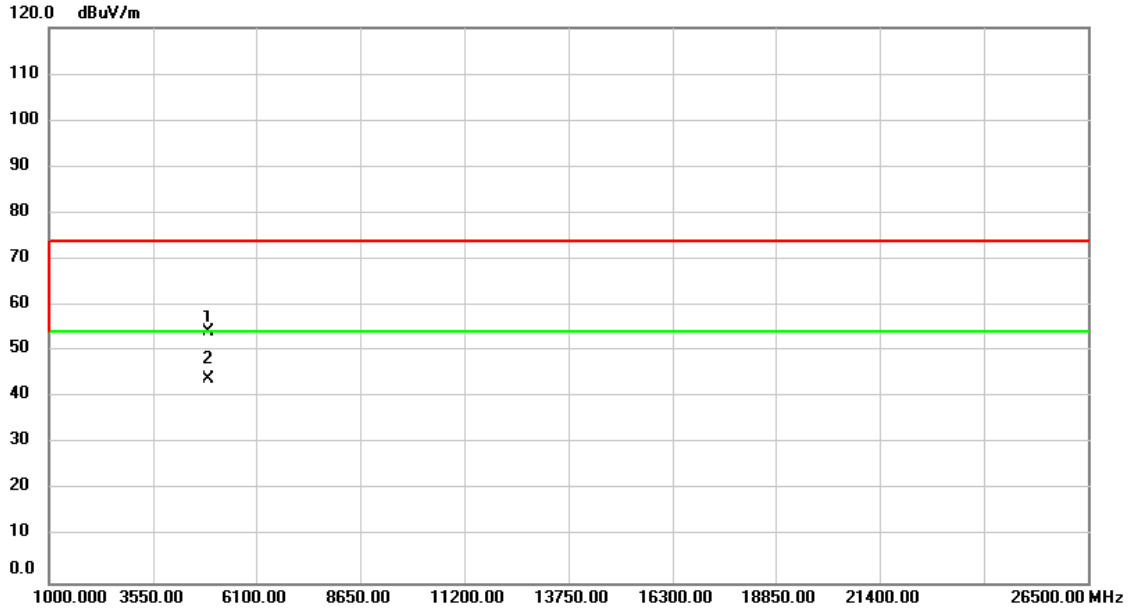
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	60.42	-11.37	49.05	74.00	-24.95	peak	
2	*	4924.000	51.23	-11.37	39.86	54.00	-14.14	AVG	

Test Mode	TX G MODE _2462 MHz	Polarization	Horizontal



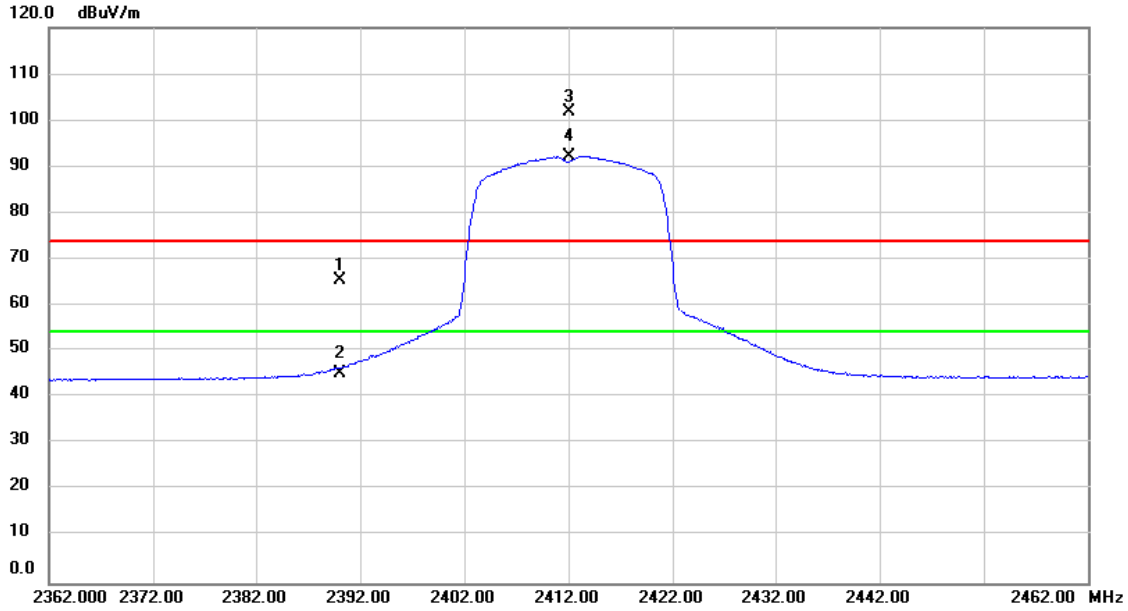
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	X	2462.000	76.47	31.09	107.56	74.00	33.56	peak	No Limit
2	*	2462.000	66.67	31.09	97.76	54.00	43.76	AVG	No Limit
3		2483.550	40.96	31.17	72.13	74.00	-1.87	peak	
4		2483.550	20.01	31.17	51.18	54.00	-2.82	AVG	

Test Mode	TX G MODE _2462 MHz	Polarization	Horizontal



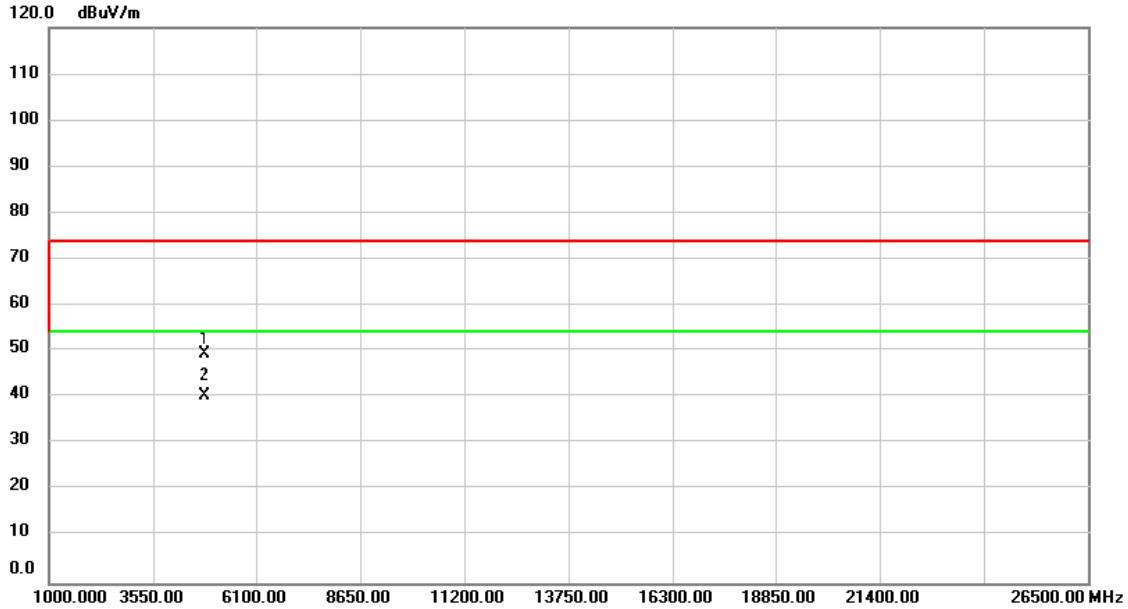
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	65.62	-11.37	54.25	74.00	-19.75	peak	
2	*	4924.000	55.43	-11.37	44.06	54.00	-9.94	AVG	

Test Mode	TX N (HT20) MODE 2412MHz	Polarization	Vertical



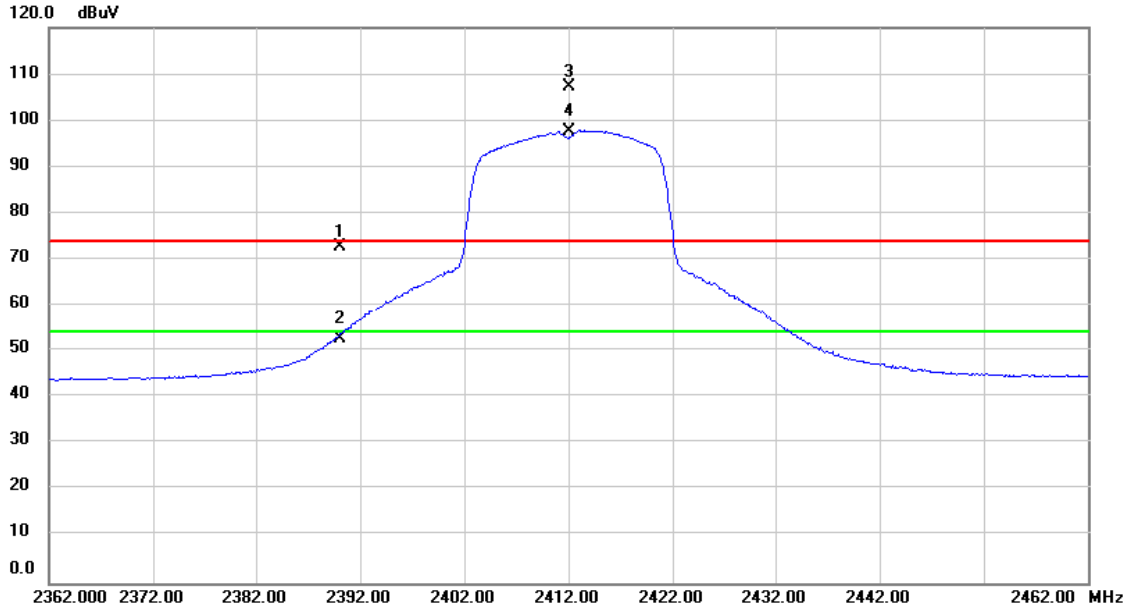
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	34.69	30.84	65.53	74.00	-8.47	peak	
2		2390.000	14.30	30.84	45.14	54.00	-8.86	AVG	
3	X	2412.000	70.85	30.92	101.77	74.00	27.77	peak	No Limit
4	*	2412.000	61.26	30.92	92.18	54.00	38.18	AVG	No Limit

Test Mode	TX N (HT20) MODE 2412MHz	Polarization	Vertical



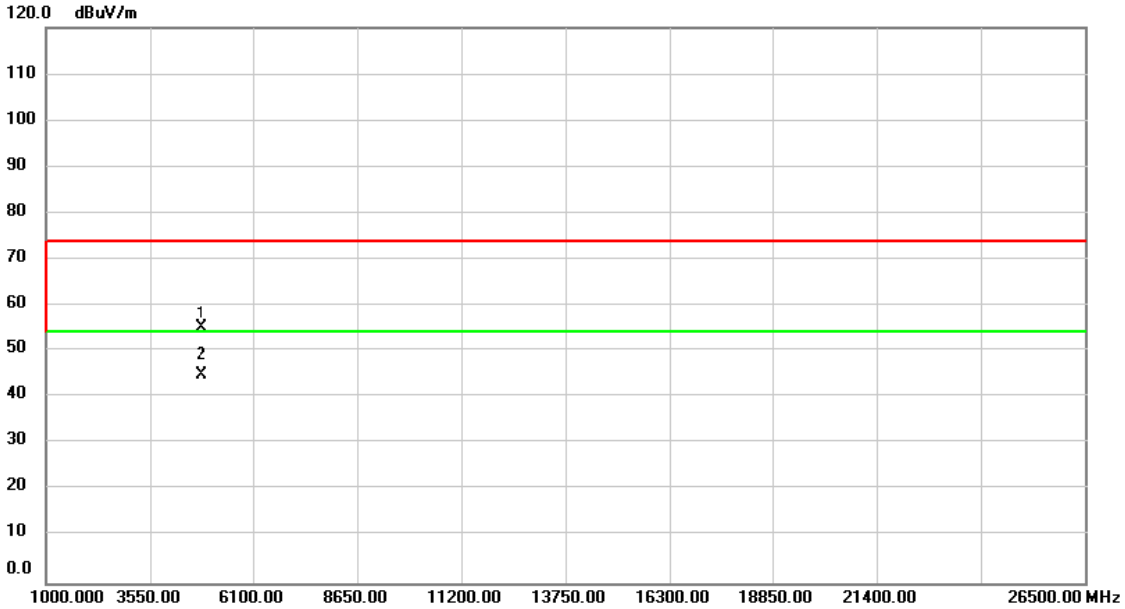
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	60.93	-11.48	49.45	74.00	-24.55	peak	
2	*	4824.000	51.96	-11.48	40.48	54.00	-13.52	AVG	

Test Mode	TX N (HT20) MODE 2412MHz	Polarization	Horizontal



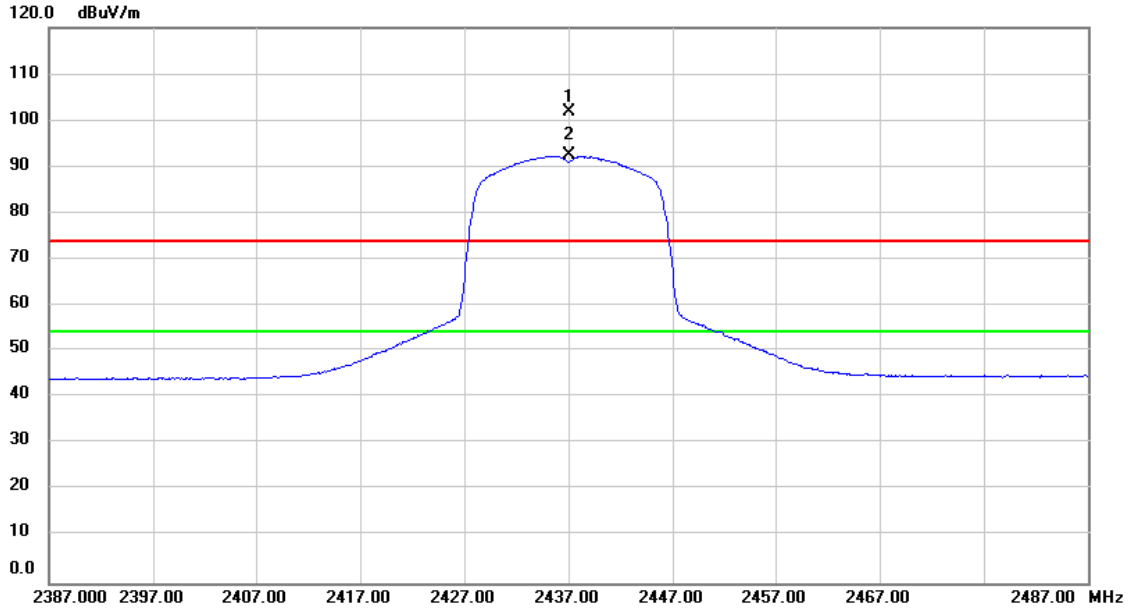
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2390.000	41.99	30.84	72.83	74.00	-1.17	peak	
2		2390.000	21.72	30.84	52.56	54.00	-1.44	AVG	
3	X	2412.000	76.33	30.92	107.25	74.00	33.25	peak	No Limit
4	*	2412.000	66.84	30.92	97.76	54.00	43.76	AVG	No Limit

Test Mode	TX N (HT20) MODE 2412MHz	Polarization	Horizontal



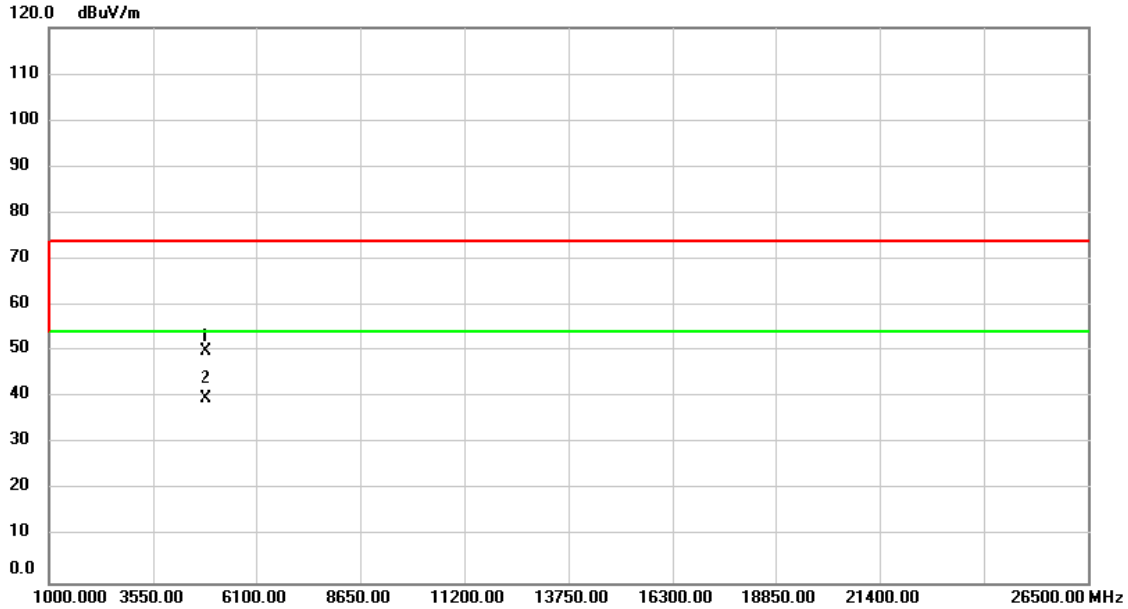
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	66.39	-11.48	54.91	74.00	-19.09	peak	
2	*	4824.000	56.20	-11.48	44.72	54.00	-9.28	AVG	

Test Mode	TX N (HT20) MODE 2437MHz	Polarization	Vertical



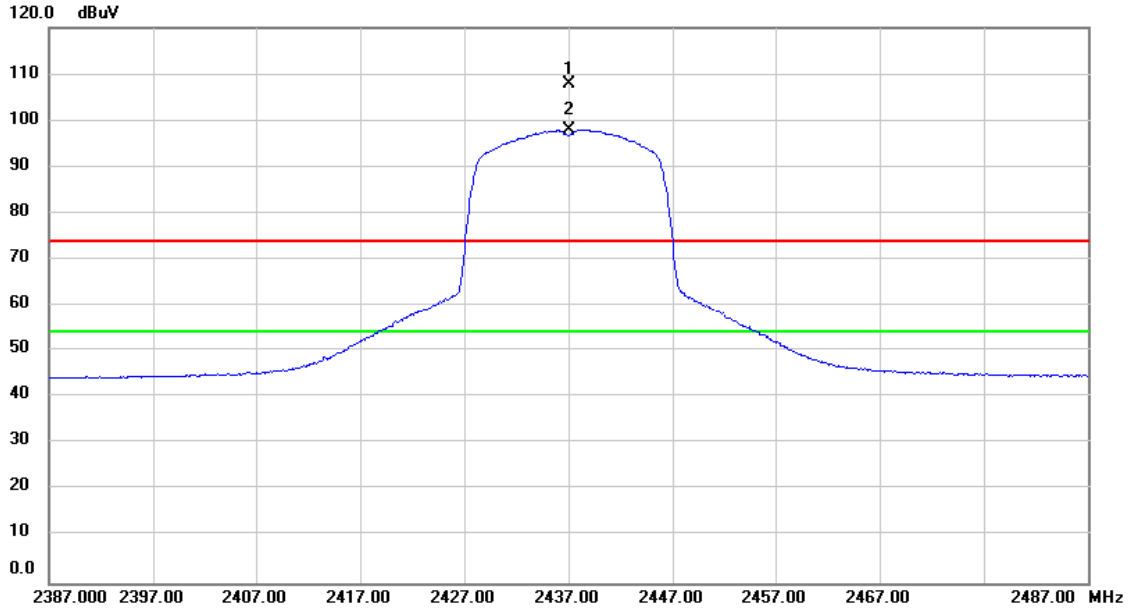
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.000	70.98	31.01	101.99	74.00	27.99	peak	No Limit
2	*	2437.000	61.62	31.01	92.63	54.00	38.63	AVG	No Limit

Test Mode	TX N (HT20) MODE 2437MHz	Polarization	Vertical



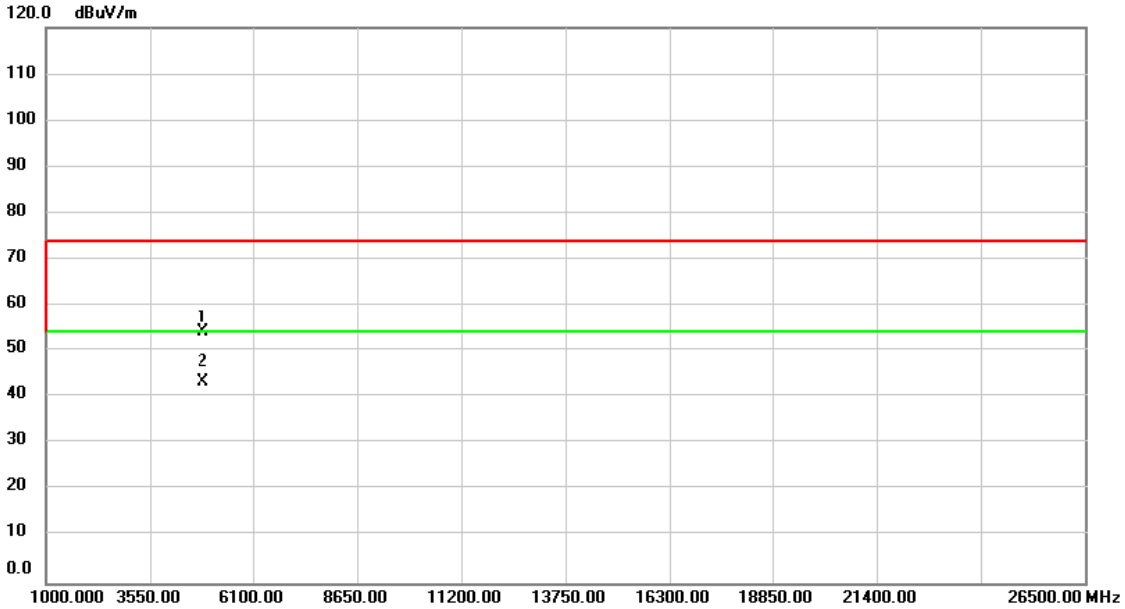
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	61.46	-11.42	50.04	74.00	-23.96	peak	
2	*	4874.000	51.20	-11.42	39.78	54.00	-14.22	AVG	

Test Mode	TX N (HT20) MODE 2437MHz	Polarization	Horizontal



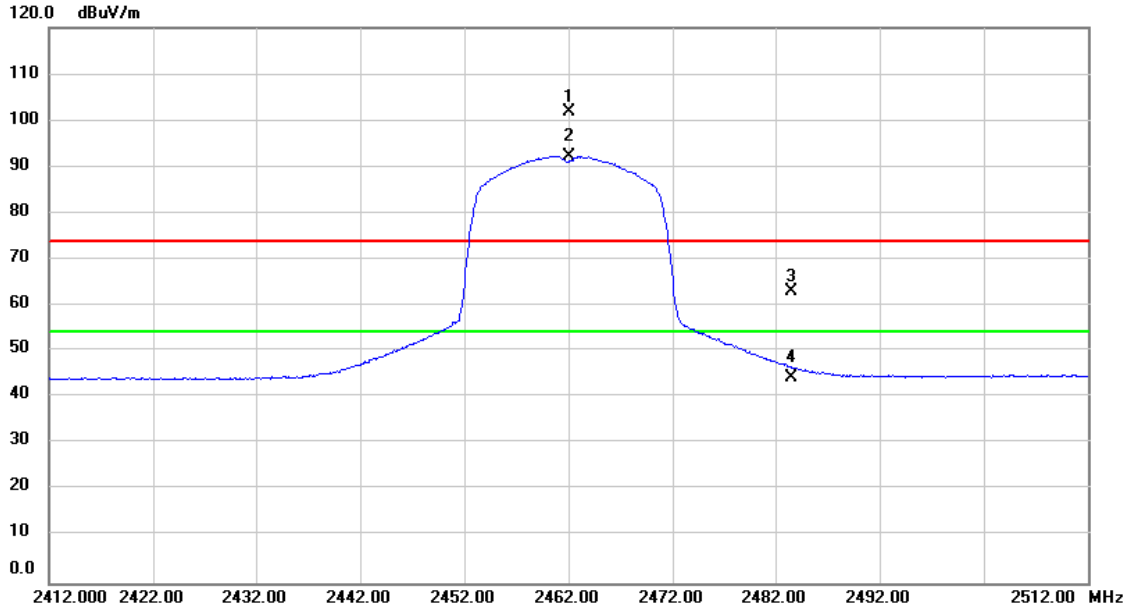
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	X	2437.000	76.78	31.01	107.79	74.00	33.79	peak	No Limit
2	*	2437.000	67.07	31.01	98.08	54.00	44.08	AVG	No Limit

Test Mode	TX N (HT20) MODE 2437MHz	Polarization	Horizontal



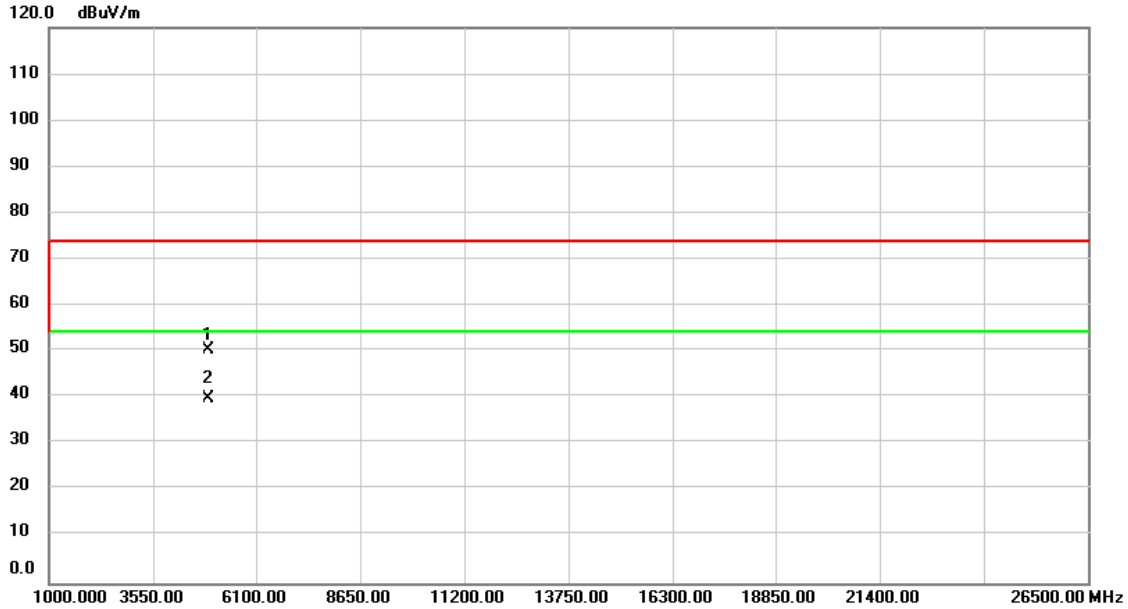
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	65.55	-11.42	54.13	74.00	-19.87	peak	
2	*	4874.000	54.83	-11.42	43.41	54.00	-10.59	AVG	

Test Mode	TX N (HT20) MODE 2462MHz	Polarization	Vertical



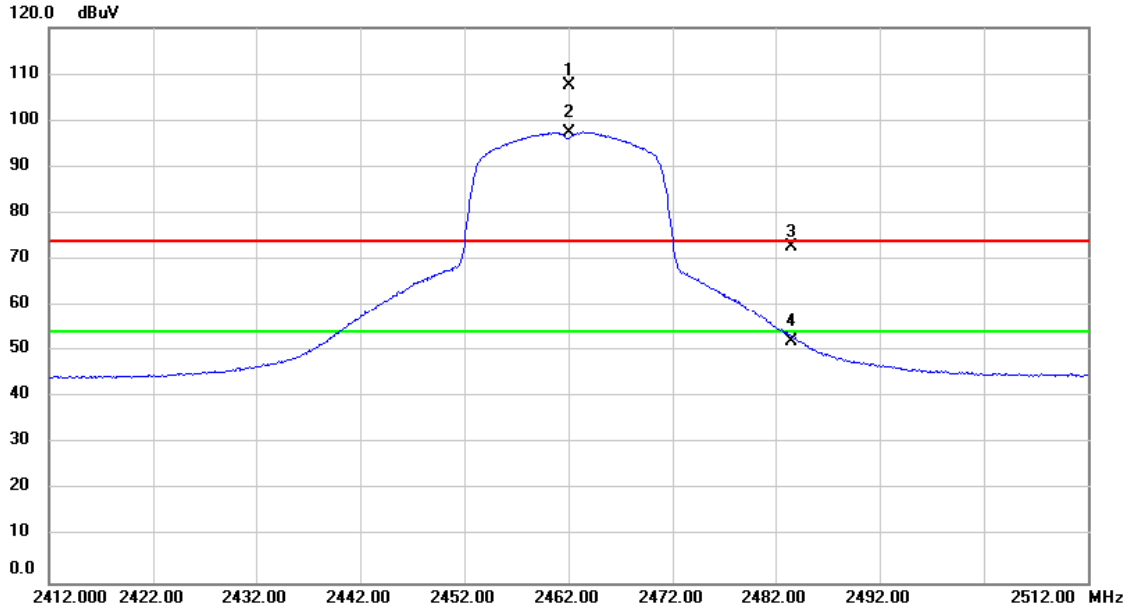
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2462.000	70.66	31.09	101.75	74.00	27.75	peak	No Limit
2	*	2462.000	61.05	31.09	92.14	54.00	38.14	AVG	No Limit
3		2483.500	32.08	31.17	63.25	74.00	-10.75	peak	
4		2483.500	13.09	31.17	44.26	54.00	-9.74	AVG	

Test Mode	TX N (HT20) MODE 2462MHz	Polarization	Vertical



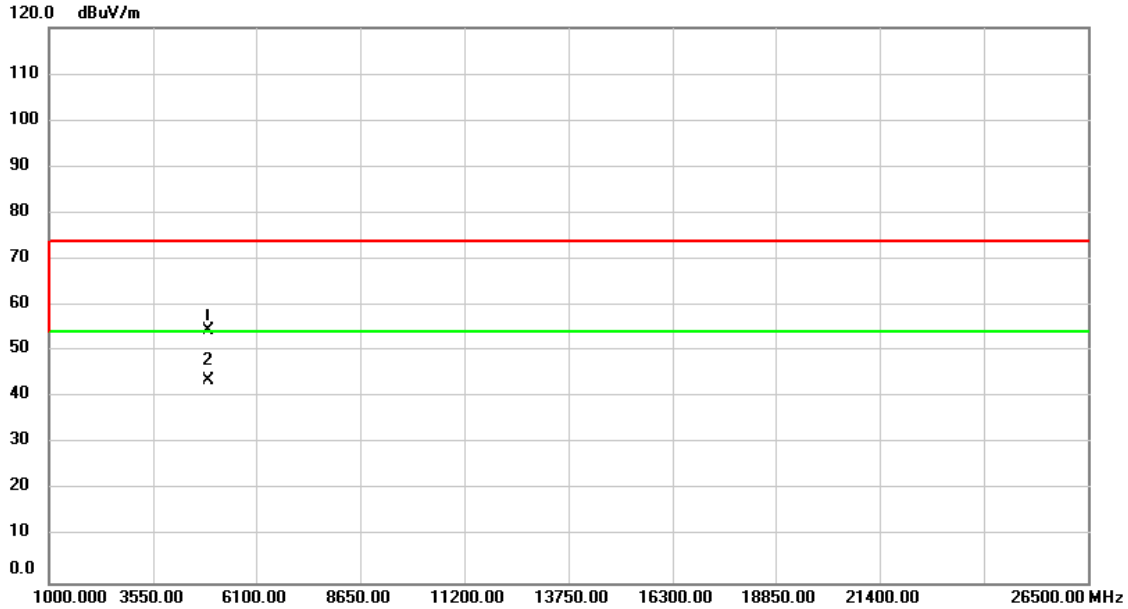
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	61.74	-11.37	50.37	74.00	-23.63	peak	
2	*	4924.000	51.22	-11.37	39.85	54.00	-14.15	AVG	

Test Mode	TX N (HT20) MODE 2462MHz	Polarization	Horizontal



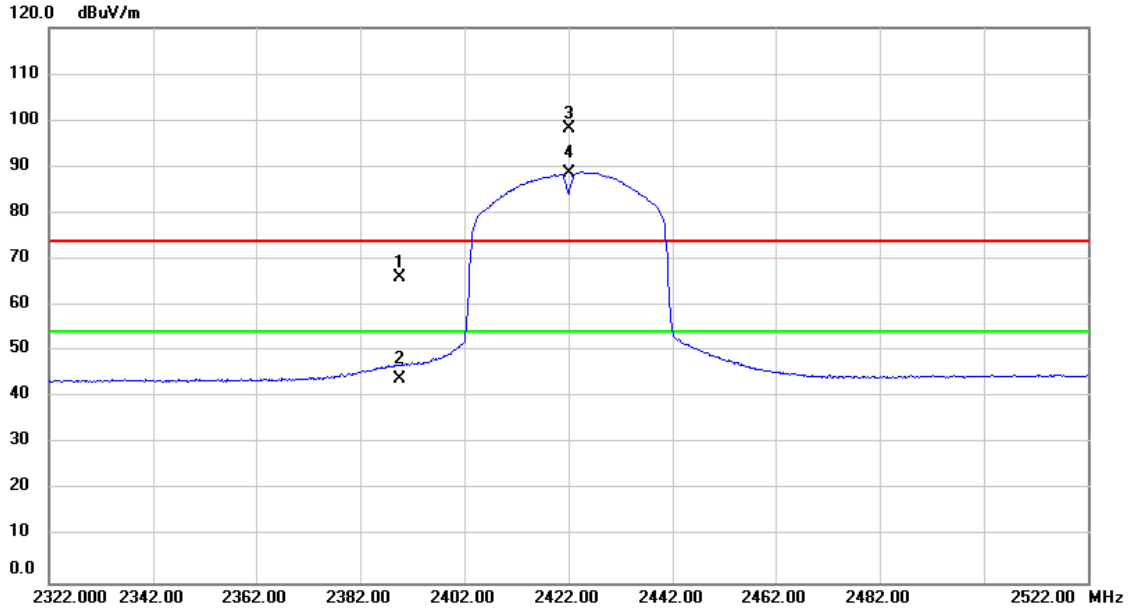
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	X	2462.000	76.50	31.09	107.59	74.00	33.59	peak	No Limit
2	*	2462.000	66.28	31.09	97.37	54.00	43.37	AVG	No Limit
3		2483.599	41.67	31.17	72.84	74.00	-1.16	peak	
4		2483.599	20.86	31.17	52.03	54.00	-1.97	AVG	

Test Mode	TX N (HT20) MODE 2462MHz	Polarization	Horizontal



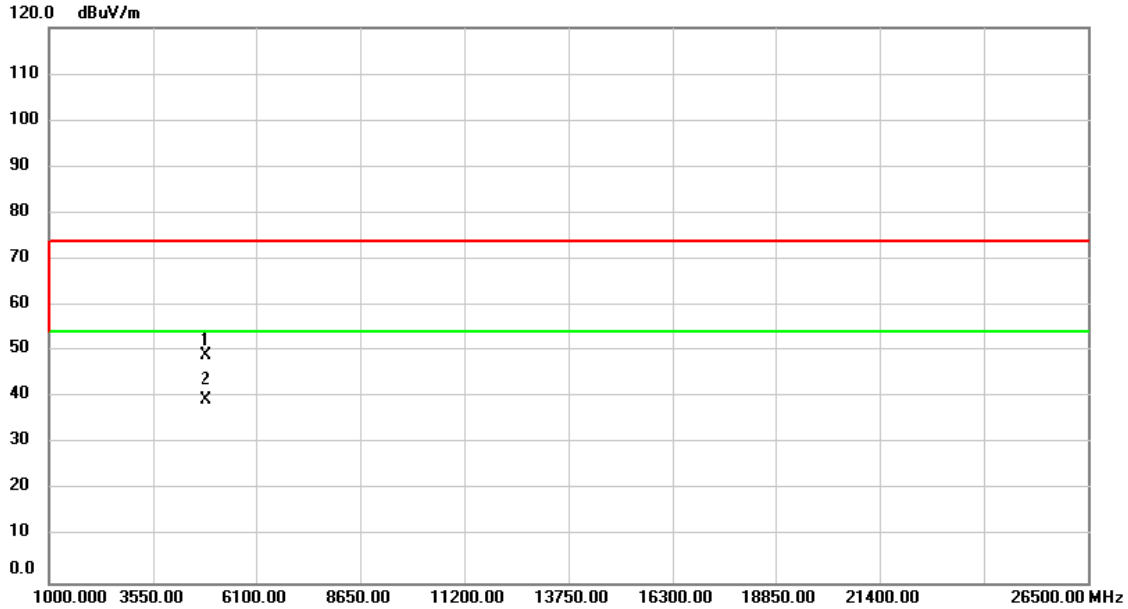
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	65.69	-11.37	54.32	74.00	-19.68	peak	
2	*	4924.000	55.12	-11.37	43.75	54.00	-10.25	AVG	

Test Mode	TX N (HT40) MODE 2422MHz	Polarization	Vertical



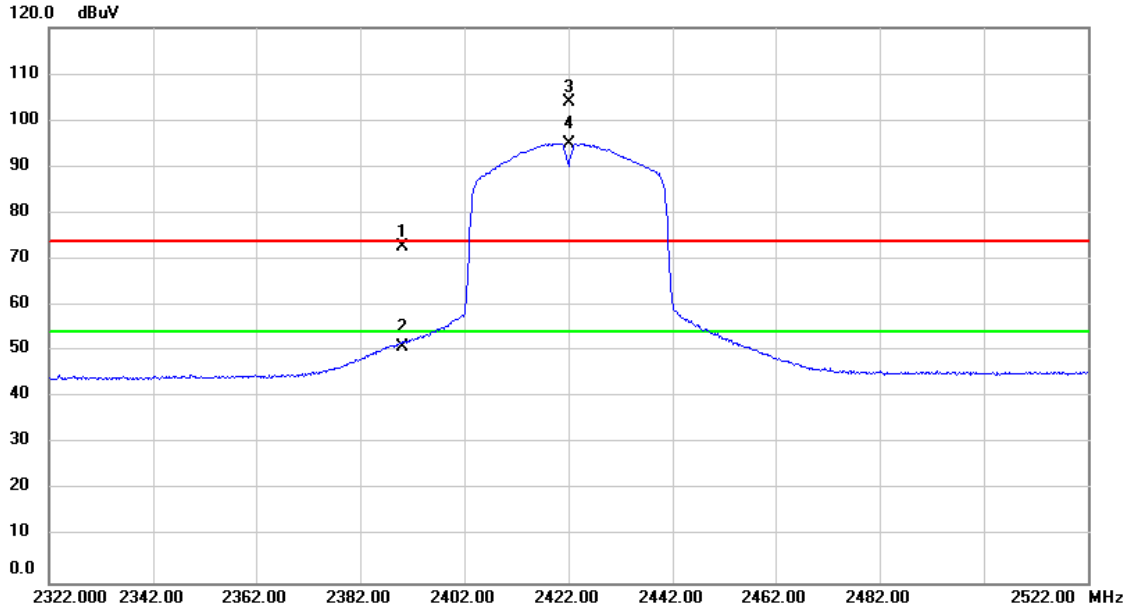
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.592	35.25	30.84	66.09	74.00	-7.91	peak	
2		2389.592	13.16	30.84	44.00	54.00	-10.00	AVG	
3	X	2422.000	67.27	30.96	98.23	74.00	24.23	peak	No Limit
4	*	2422.000	57.75	30.96	88.71	54.00	34.71	AVG	No Limit

Test Mode	TX N (HT40) MODE 2422MHz	Polarization	Vertical



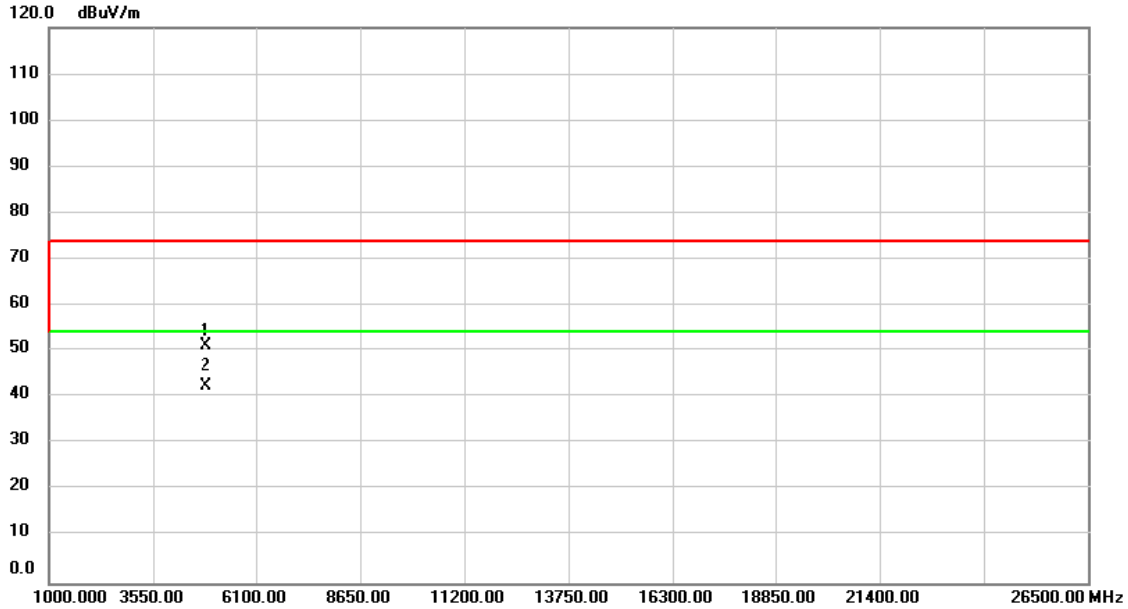
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	60.58	-11.46	49.12	74.00	-24.88	peak	
2	*	4844.000	50.95	-11.46	39.49	54.00	-14.51	AVG	

Test Mode	TX N (HT40) MODE 2422MHz	Polarization	Horizontal



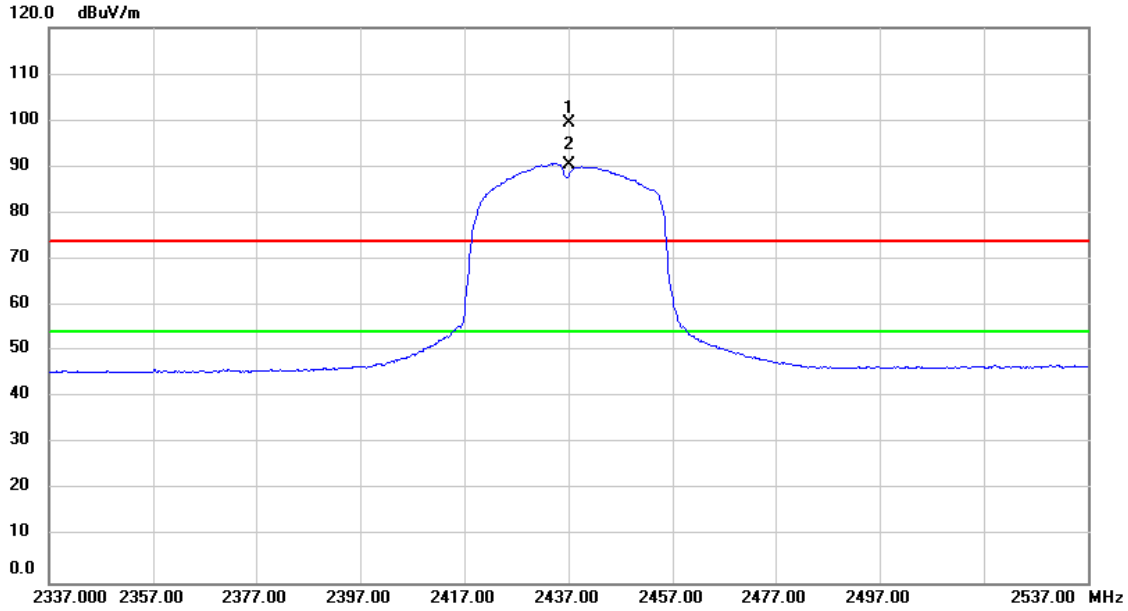
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2390.000	41.95	30.84	72.79	74.00	-1.21	peak	
2		2390.000	20.01	30.84	50.85	54.00	-3.15	AVG	
3	X	2422.000	73.02	30.96	103.98	74.00	29.98	peak	No Limit
4	*	2422.000	63.99	30.96	94.95	54.00	40.95	AVG	No Limit

Test Mode	TX N (HT40) MODE 2422MHz	Polarization	Horizontal



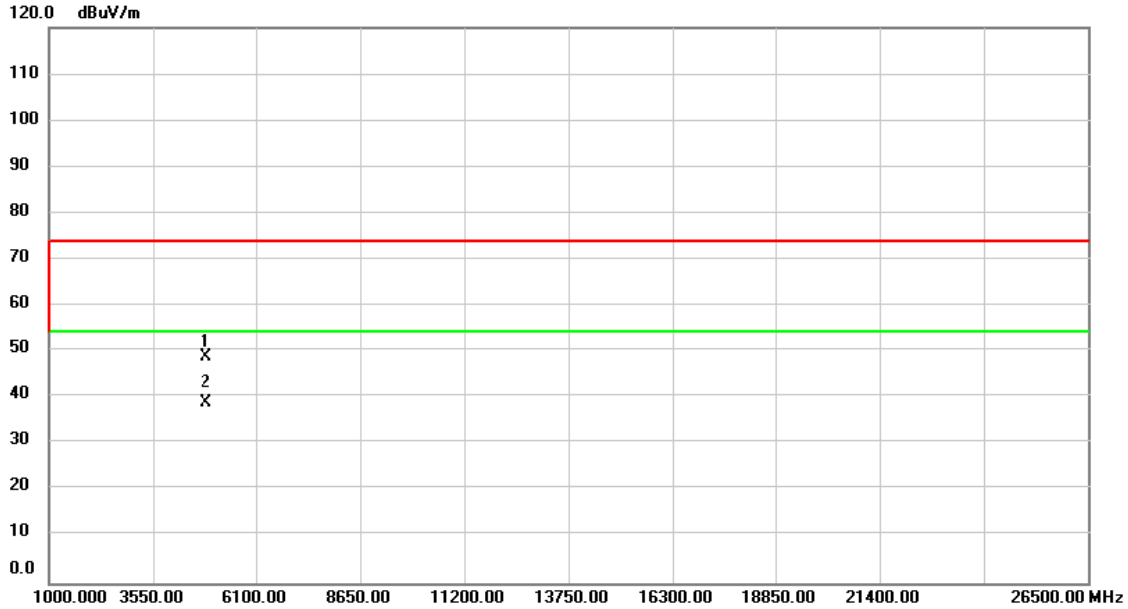
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	62.53	-11.46	51.07	74.00	-22.93	peak	
2	*	4844.000	53.86	-11.46	42.40	54.00	-11.60	AVG	

Test Mode	TX N (HT40) MODE 2437MHz	Polarization	Vertical



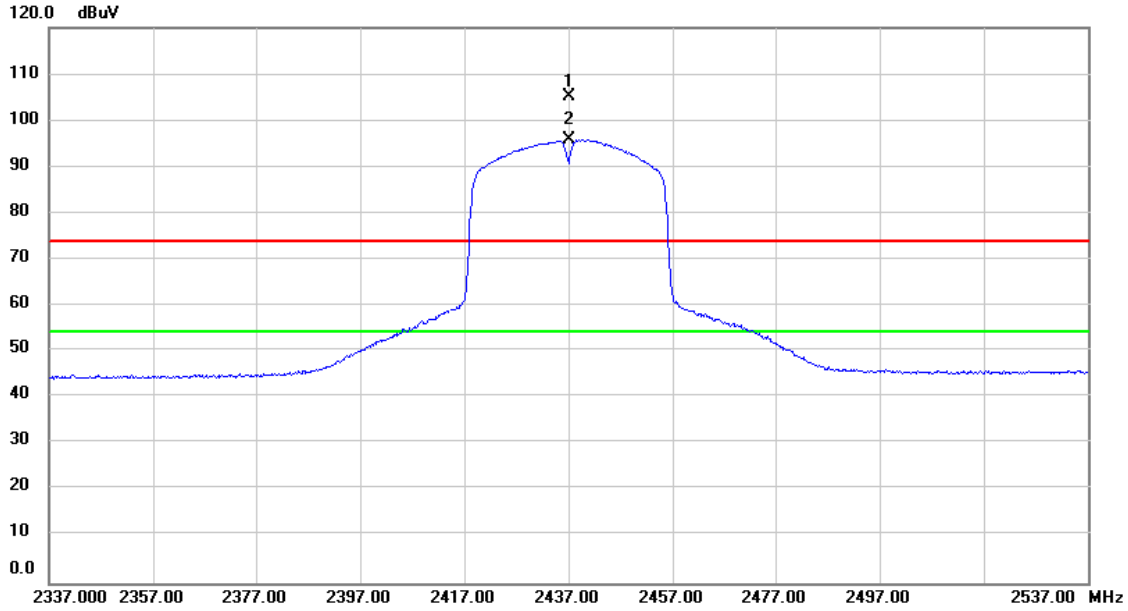
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.000	68.39	31.01	99.40	74.00	25.40	peak	No Limit
2	*	2437.000	59.32	31.01	90.33	54.00	36.33	AVG	No Limit

Test Mode	TX N (HT40) MODE 2437MHz	Polarization	Vertical



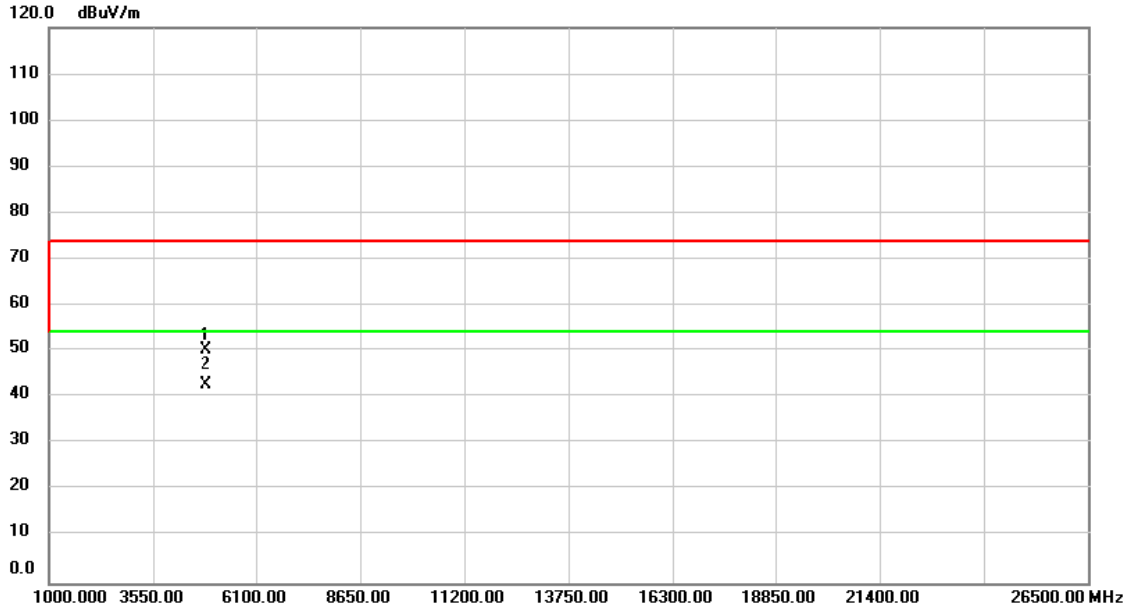
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	60.31	-11.42	48.89	74.00	-25.11	peak	
2	*	4874.000	50.33	-11.42	38.91	54.00	-15.09	AVG	

Test Mode	TX N (HT40) MODE 2437MHz	Polarization	Horizontal



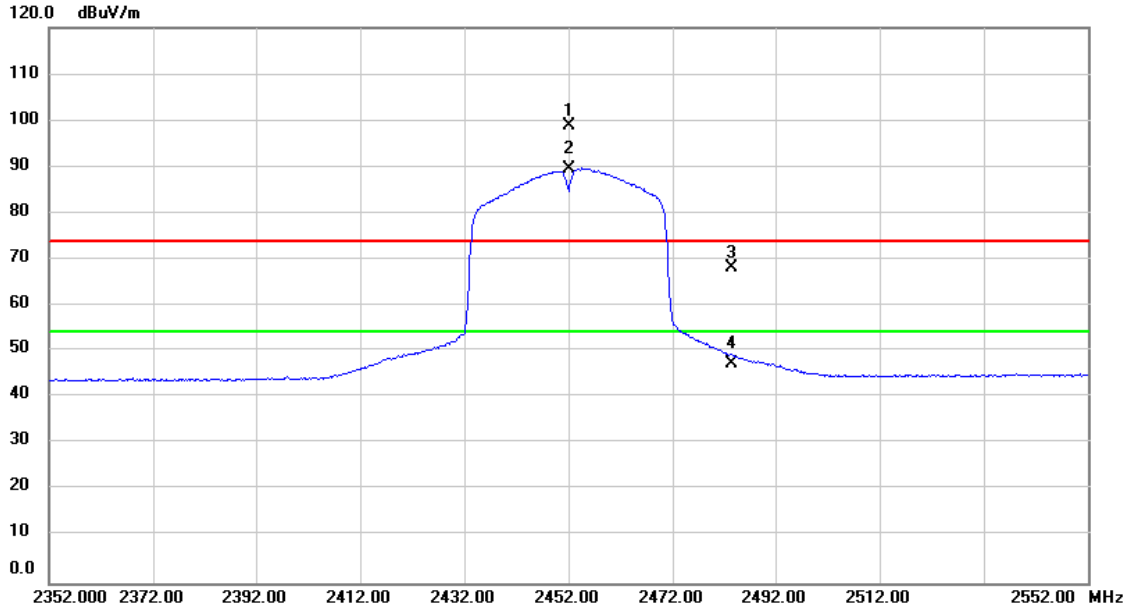
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	X	2437.000	74.13	31.01	105.14	74.00	31.14	peak	No Limit
2	*	2437.000	64.81	31.01	95.82	54.00	41.82	AVG	No Limit

Test Mode	TX N (HT40) MODE 2437MHz	Polarization	Horizontal



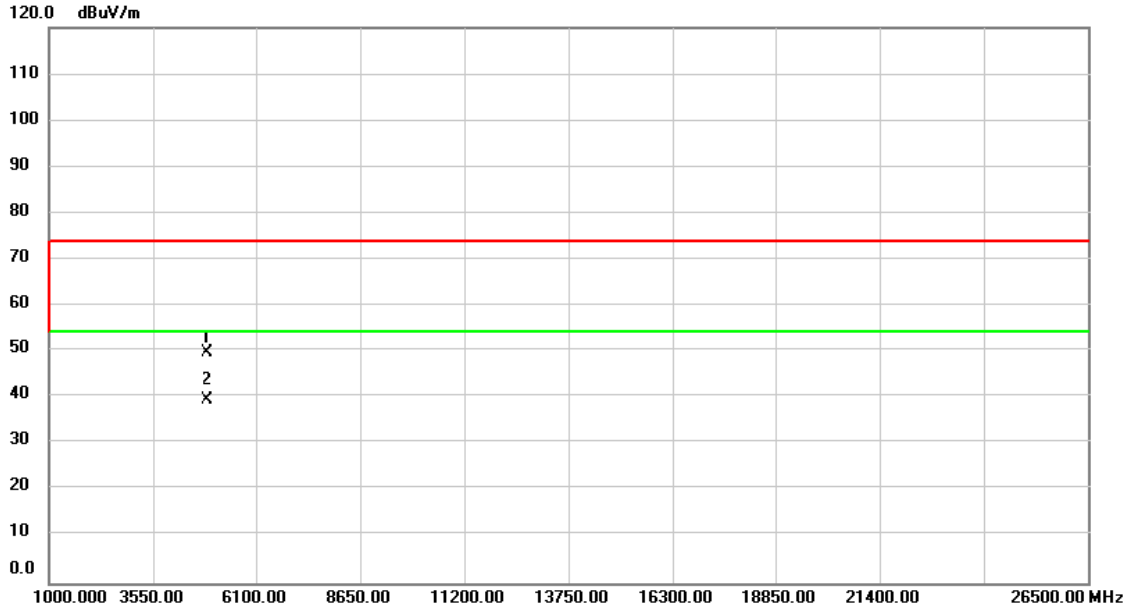
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	61.64	-11.42	50.22	74.00	-23.78	peak	
2	*	4874.000	54.08	-11.42	42.66	54.00	-11.34	AVG	

Test Mode	TX N (HT40) MODE 2452MHz	Polarization	Vertical



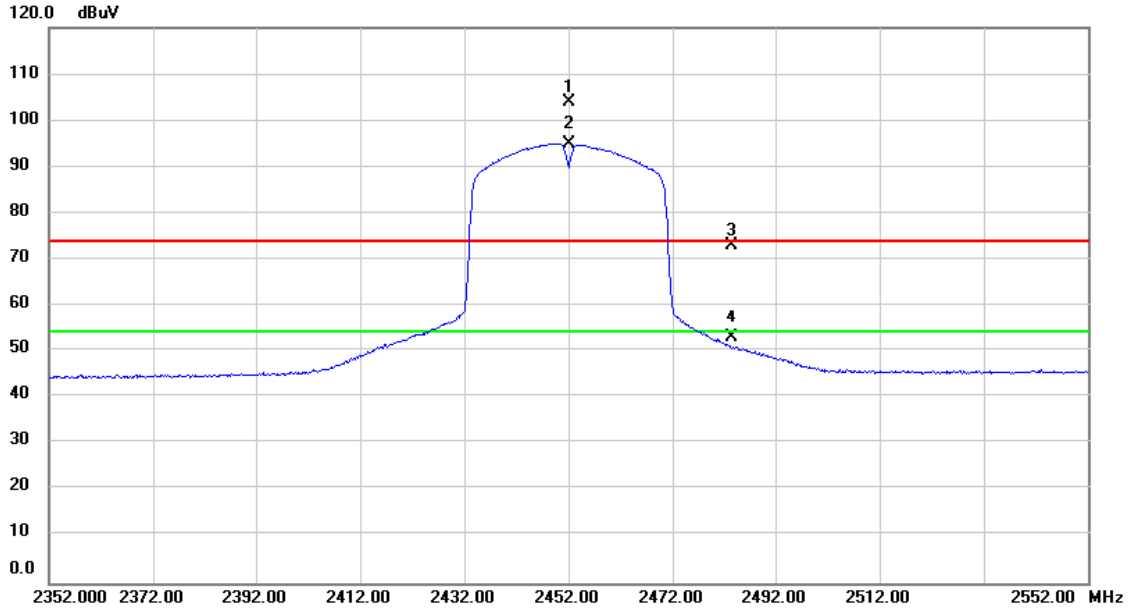
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2452.000	67.88	31.07	98.95	74.00	24.95	peak	No Limit
2	*	2452.000	58.52	31.07	89.59	54.00	35.59	AVG	No Limit
3		2483.500	37.17	31.17	68.34	74.00	-5.66	peak	
4		2483.500	15.95	31.17	47.12	54.00	-6.88	AVG	

Test Mode	TX N (HT40) MODE 2452MHz	Polarization	Vertical



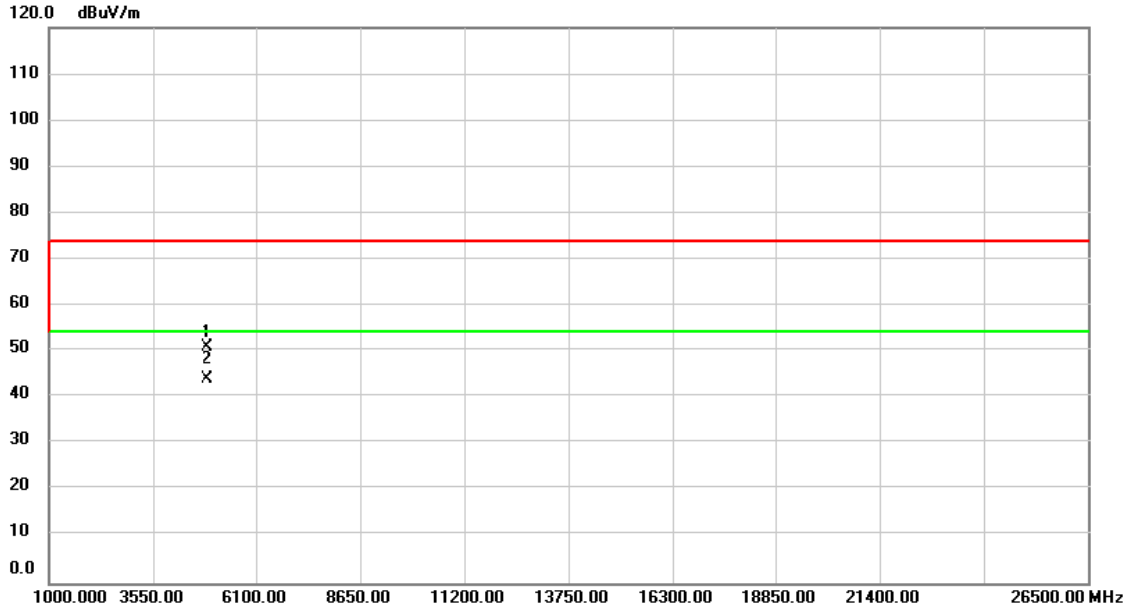
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	60.96	-11.39	49.57	74.00	-24.43	peak	
2	*	4904.000	50.94	-11.39	39.55	54.00	-14.45	AVG	

Test Mode	TX N (HT40) MODE 2452MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	X	2452.000	72.95	31.07	104.02	74.00	30.02	peak	No Limit
2	*	2452.000	63.89	31.07	94.96	54.00	40.96	AVG	No Limit
3		2483.500	41.80	31.17	72.97	74.00	-1.03	peak	
4		2483.500	21.70	31.17	52.87	54.00	-1.13	AVG	

Test Mode	TX N (HT40) MODE 2452MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	62.24	-11.39	50.85	74.00	-23.15	peak	
2	*	4904.000	55.40	-11.39	44.01	54.00	-9.99	AVG	

APPENDIX – REFERENCE INFORMATION

Normal Condition Power Table

Test Mode	WLAN

Mode	Frequency (MHz)	ANT-0		Total Power		Limit	
		Peak	Average	Peak	Average	Peak	PASS/ FAIL
		dBm	dBm	dBm	dBm	dBm	
802.11b	2412	17.30	15.42	17.30	15.42	30.00	PASS
	2437	17.39	15.51	17.39	15.51	30.00	PASS
	2462	17.13	15.21	17.13	15.21	30.00	PASS
802.11g	2412	18.40	12.02	18.40	12.02	30.00	PASS
	2437	19.94	13.22	19.94	13.22	30.00	PASS
	2462	18.51	12.51	18.51	12.51	30.00	PASS
802.11n20	2412	18.35	11.78	18.35	11.78	30.00	PASS
	2437	19.82	12.15	19.82	12.15	30.00	PASS
	2462	19.76	11.96	19.76	11.96	30.00	PASS
802.11n40	2422	19.51	10.64	19.51	10.64	30.00	PASS
	2437	19.87	11.97	19.87	11.97	30.00	PASS
	2452	19.50	10.90	19.50	10.90	30.00	PASS