

FCC Radio Test Report

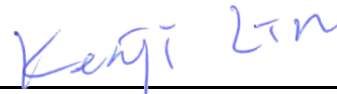
FCC ID: T58N4R

This report concerns: Original Grant

Project No. : 1809T061
Equipment : AC1200 Wireless Dual Band Router
Test Model : N4
Series Model : N4D
Applicant : Netis systems Co., Ltd.
Address : Building 6, IC Park, Baolong 4th Road, Baolong
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Date of Receipt : Sep. 18, 2018
Date of Test : Sep. 18, 2018 ~ Oct. 29, 2018
Issued Date : Dec. 21, 2018
Tested by : BTL Inc.

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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. 31, 2018
R01	Revised report to address TCB's comments.	Dec. 21, 2018

1 CERTIFICATION

Equipment : AC1200 Wireless Dual Band Router
Brand Name : netis
Test Model : N4
Series Model : N4D
Applicant : Netis systems Co., Ltd.
Manufacturer : Shenzhen Netcore Industrial Ltd.
Address : Building 6, Baolong Plant, Able Technology Park, No.2 of Baolong 4th Road,
Baolong Street, Baolong Community, Longgang District, Shenzhen, China
Date of Test : Sep. 18, 2018 ~ Oct. 29, 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-1-1809T061) 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 WLAN 2.4 GHz part.

2 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC Part15, Subpart C (§15.247)				
FCC Clause No	Description	Test Result	Judgement	Remark
§15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
§15.205 §15.209 §15.247(d)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass	-----
§15.247(a)	Bandwidth	APPENDIX E	Pass	-----
§15.247(b)	Peak Output Power	APPENDIX F	Pass	-----
§15.247(d)	Antenna Conducted Spurious Emissions	APPENDIX G	Pass	-----
§15.247(e)	Power Spectral Density	APPENDIX H	Pass	-----
§15.203	Antenna Requirement	-----	Pass	-----

NOTE:

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

2.1 TEST FACILITY

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

CB05: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

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.)

2.2 MEASUREMENT UNCERTAINTY

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

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

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U (dB)
C05	CISPR	150 kHz ~ 30MHz	2.68	C05

B. Radiated emissions below 1 GHz test:

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

C. Radiated emissions above 1 GHz test:

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

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

D. Conducted tests:

Item	Method	U
Bandwidth	ANSI	3.8 %
Output Power	ANSI	0.95 dB
Power Spectral Density	ANSI	0.86 dB
Conducted Spurious Emissions	ANSI	2.71 dB

NOTE:

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

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

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

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

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

3 GENERAL INFORMATION

3.1 DESCRIPTION OF EUT

Equipment	AC1200 Wireless Dual Band Router
Brand Name	netis
Test Model	N4
Series Model	N4D
Model Difference	Different model distribute to different area.
Power Source	DC Voltage supplied from AC/DC adapter.
Power Rating	I/P: AC 100-240V~50/60Hz, 0.3A O/P: DC 12V---0.5A
Operation Frequency	2412 MHz to 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps
Maximum Output Power	IEEE 802.11b: 21.34 dBm (0.1361 W) IEEE 802.11g: 28.28 dBm (0.6724 W) IEEE 802.11n (HT20): 28.14 dBm (0.6517 W) IEEE 802.11n (HT40): 28.07 dBm (0.6406 W)
Products Covered	3 * Adapter: (1) AMIGO / AMS195-1200500FB (2) AMIGO / AMS195-1200500FU (3) AMIGO / AMS195-1200500FV

NOTE:

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

(2) Channel List:

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)
1	RF Link	RF21C03631A	Dipole	IPEX	3
2	RF Link	RF21C03631A	Dipole	IPEX	3

NOTE:

- (a) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R). 2.4 GHz and 5GHz can transmit simultaneously.
- (b) For Power Spectral Density (CDD mode)
 Directional Gain = $10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / N_{ANT}] = 6.01 \text{ dBi} > 6\text{dBi}$.
 The reduced power spectral density limits (dBm/MHz) = $8 - (6.01-6) = 7.99$
- (c) For Conducted Output Power (CDD mode)
 For $N_{ANT} = 2 < 5$,
 Direction gain = $G_{ANT} + 0 = 3 + 0 = 3 \text{ dBi}$.
 The Direction gain is less than 6 dBi, so conducted power limits will not be reduced.

3.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
1	TX B MODE CHANNEL 01/06/11
2	TX G MODE CHANNEL 01/06/11
3	TX N (HT20) MODE CHANNEL 01/06/11
4	TX N (HT40) MODE CHANNEL 03/06/09

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Test Mode	Description
3	TX N (HT20) MODE CHANNEL 01

Radiated emissions test	
Test Mode	Description
1	TX B MODE CHANNEL 01/06/11
2	TX G MODE CHANNEL 01/06/11
3	TX N (HT20) MODE CHANNEL 01/06/11
4	TX N (HT40) MODE CHANNEL 03/06/09

Conducted test	
Test Mode	Description
1	TX B MODE CHANNEL 01/06/11
2	TX G MODE CHANNEL 01/06/11
3	TX N (HT20) MODE CHANNEL 01/06/11
4	TX N (HT40) MODE CHANNEL 03/06/09

NOTE:

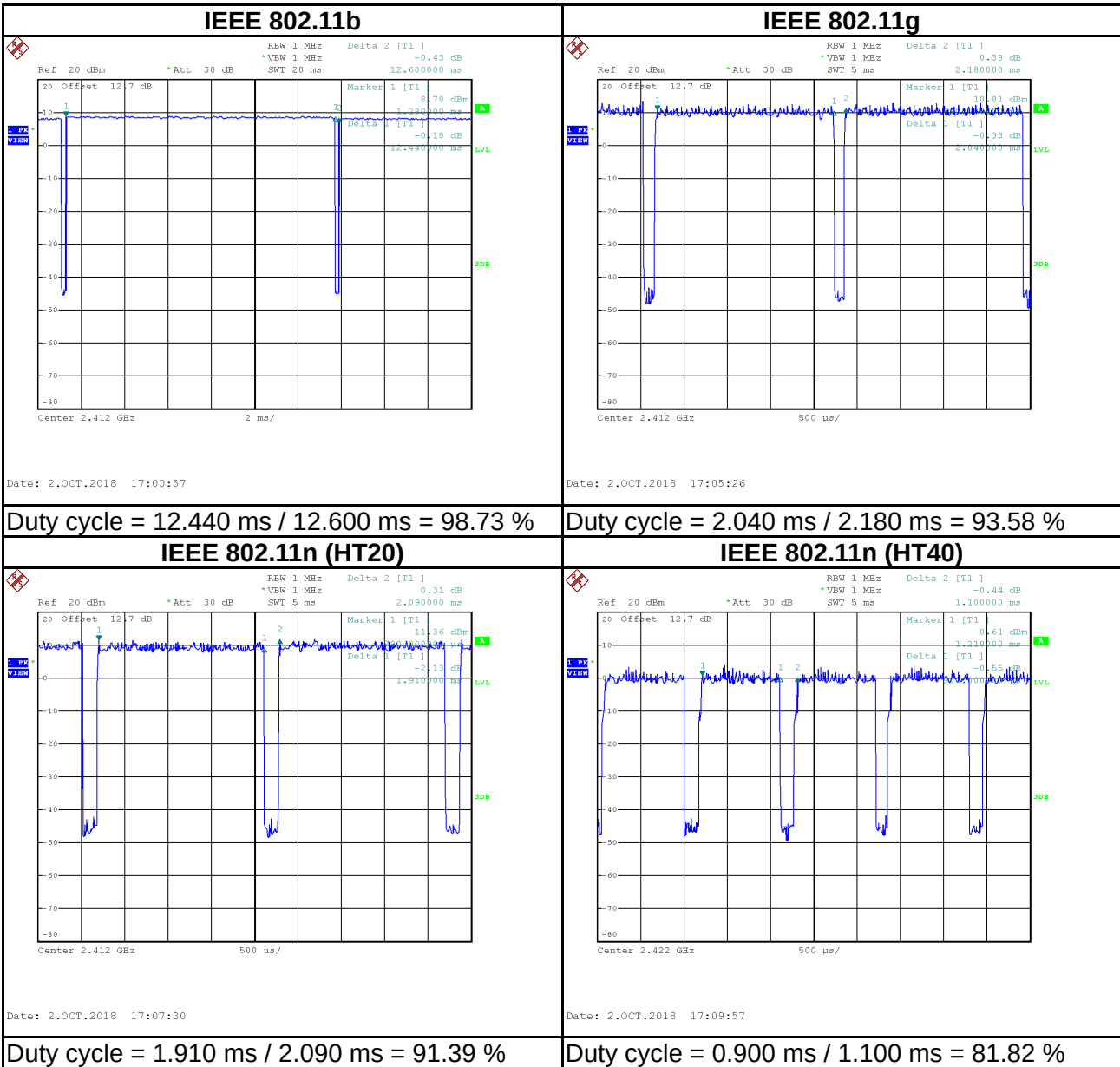
- (1) The measurements are performed at the low, middle and high available channels.
- (2) For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11n (HT20) was found to be the worst case and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Test Software	Telnet			
Mode	2412 MHz	2437 MHz	2462 MHz	Data Rate
IEEE 802.11b	46/46	48/48	48/48	1 Mbps
IEEE 802.11g	56/56	63/63	57/57	6 Mbps
IEEE 802.11n (HT20)	54/54	63/63	54/54	MCS 0
Mode	2422 MHz	2437 MHz	2452 MHz	Data Rate
IEEE 802.11n (HT40)	49/49	63/63	52/52	MCS 0

3.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.
If duty cycle is $< 98\%$, duty factor shall be considered.



NOTE:

For IEEE 802.11g and IEEE 802.11n (HT20):

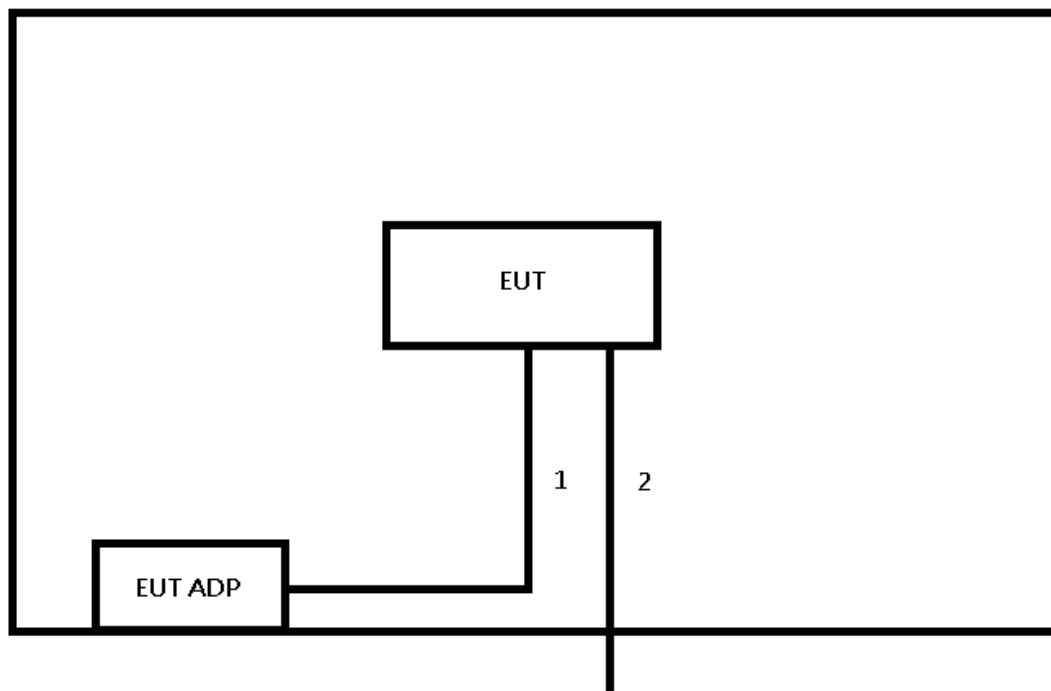
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle $< 98\%$).

For IEEE 802.11n (HT40):

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 $< 98\%$).

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 3.6.



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
-	-	-	-	-	-

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	NO	NO	1.5m	Power cable	Supplied by Applicant
2	NO	NO	6.0m	RJ45	Furnished at test lab

4 AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56 *	56 - 46 *
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) 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 Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 All other support equipment were powered from an additional LISN(s).
 The LISN provides 50 Ohm/50uH of 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 to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 The end of the cable will be terminated, using the correct terminating impedance.
 The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT Test Photos.

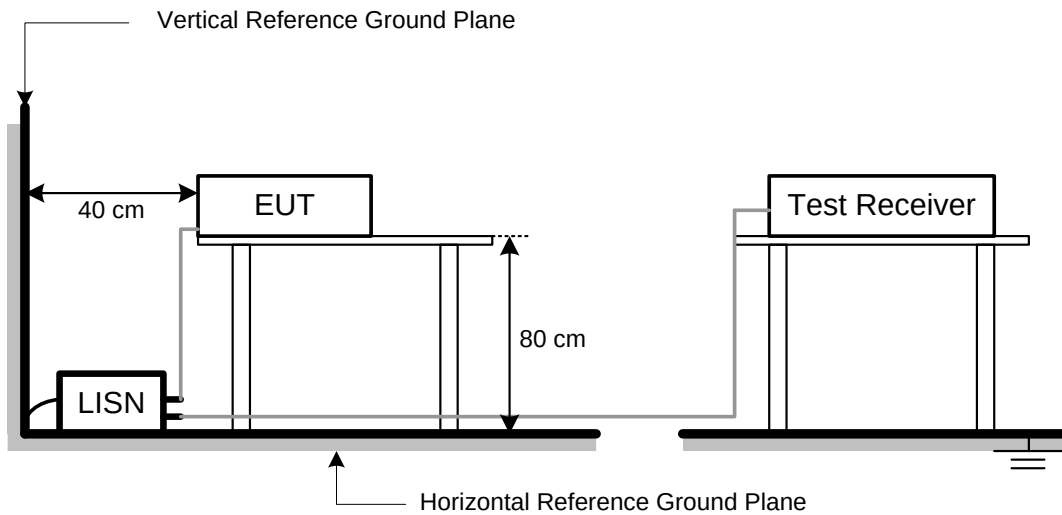
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
 BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in normal link mode.

4.6 TEST RESULT

Temperature: 25 °C Relative Humidity: 45 % Test Voltage: AC 120V/50Hz

Please refer to the APPENDIX A.

5 RADIATED EMISSIONS TEST

5.1 LIMIT

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

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

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 EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated Emissions (dBuV/m)		Measurement Distance (meters)
	Peak	Average	
Above 1000	74	54	3

NOTE:

- (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

Spectrum 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

5.2 TEST PROCEDURE

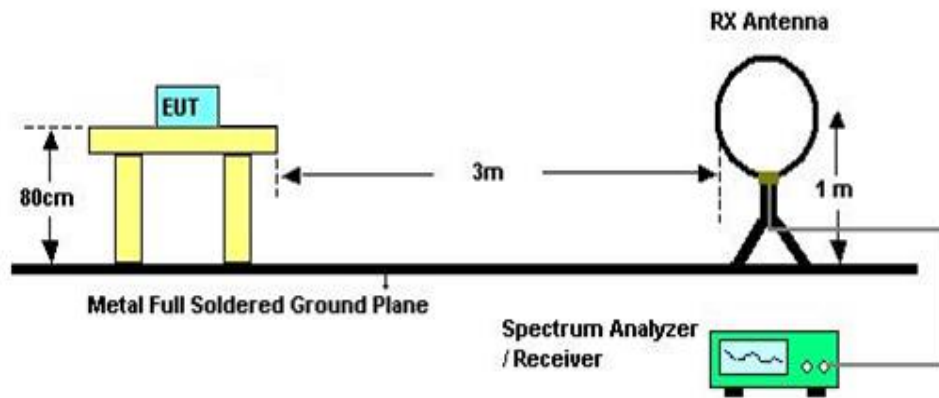
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

5.3 DEVIATION FROM TEST STANDARD

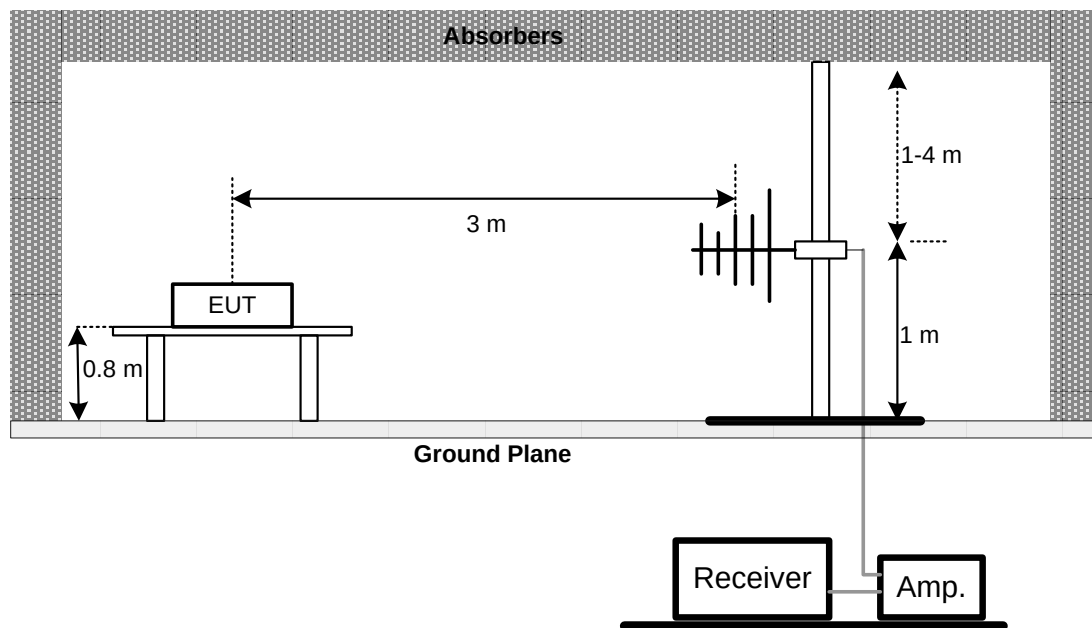
No deviation.

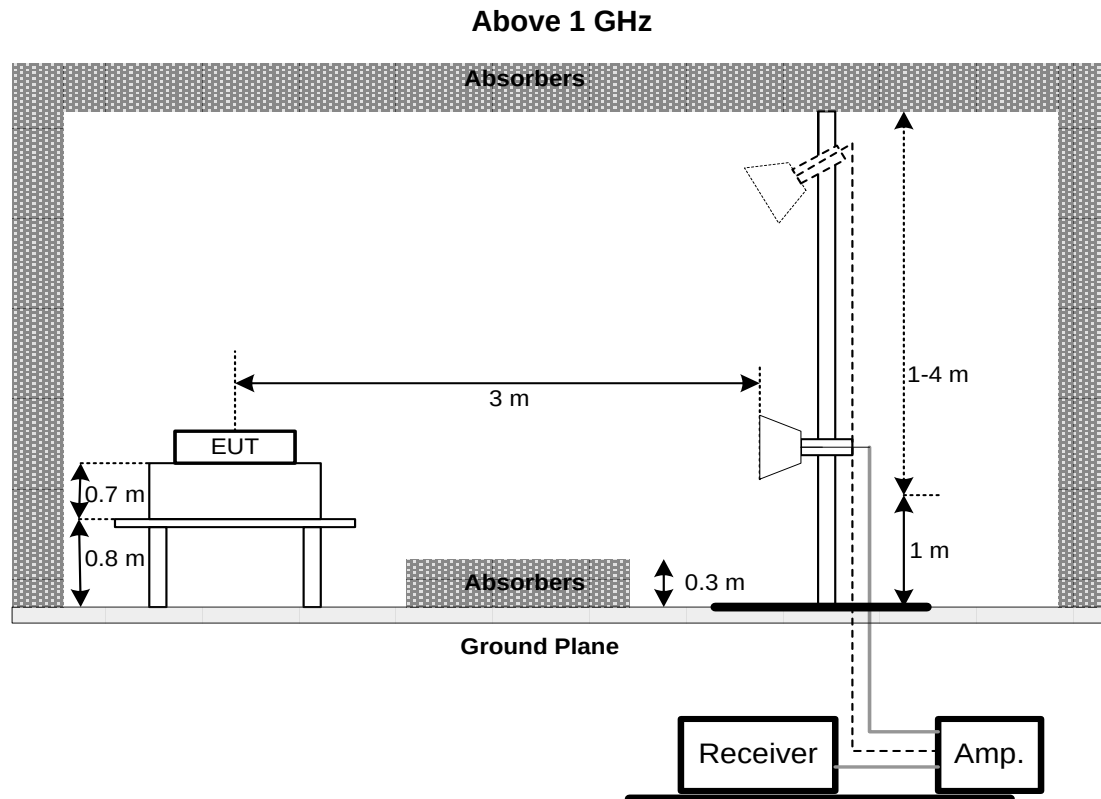
5.4 TEST SETUP

Below 30 MHz



30 MHz to 1 GHz





5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT – 9 KHZ TO 30 MHZ

Temperature: 23 °C Relative Humidity: 70 % Test Voltage: AC 120V/50Hz

Please refer to the APPENDIX B.

NOTE:

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

5.7 TEST RESULT – 30MHZ TO 1000 MHZ

Temperature: 23 °C Relative Humidity: 70 % Test Voltage: AC 120V/50Hz

Please refer to the APPENDIX C.

5.8 TEST RESULT – ABOVE 1000 MHZ

Temperature: 23 °C Relative Humidity: 70 % Test Voltage: AC 120V/50Hz

Please refer to the APPENDIX D.

NOTE:

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

6 BANDWIDTH TEST

6.1 LIMIT

FCC Part15, Subpart C (§15.247)		
Section	Test Item	Limit
§15.247(a)	6 dB Bandwidth	500 kHz

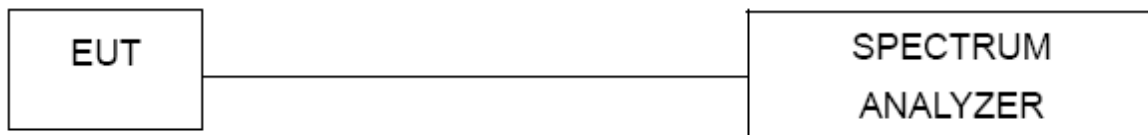
6.2 TEST PROCEDURE

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

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX E.

7 PEAK OUTPUT POWER TEST

7.1 LIMIT

FCC Part15, Subpart C (§15.247)		
Section	Test Item	Limit
§15.247(b)	Maximum Output Power	1 Watt or 30dBm

7.2 TEST PROCEDURE

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

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX F.

8 ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST

8.1 LIMIT

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

8.2 TEST PROCEDURE

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

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULT

Please refer to the APPENDIX G.

9 POWER SPECTRAL DENSITY

9.1 LIMIT

FCC Part15, Subpart C (§15.247)		
Section	Test Item	Limit
§15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

9.2 TEST PROCEDURE

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

9.3 DEVIATION FROM TEST STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULT

Please refer to the APPENDIX H.

10 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions

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-B MR-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 Emissions

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMCI	012645B	980267	Apr. 14, 2019
2	Preamplifier	EMCI	EMC02325	980217	Apr. 14, 2019
3	Preamplifier	EMCI	EMC2654045	980030	Apr. 14, 2019
4	Test Cable	EMCI	EMC104-SM-SM-8000	8m	Apr. 14, 2019
5	Test Cable	EMCI	EMC104-SM-SM-800	150207	Apr. 14, 2019
6	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Apr. 14, 2019
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 27, 2019
8	Signal Analyzer	Agilent	N9010A	MY52220990	May 22, 2019
9	Loop Ant	EMCI	LPA600	274	May 03, 2019
10	Horn Ant	SCHWARZBEC K	BBHA 9120D	9120D-1342	May 02, 2019
11	Horn Ant	Schwarzbeck	BBHA 9170	187	Aug. 16, 2019
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Mar. 22, 2019
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Mar. 22, 2019
14	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A

Bandwidth

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 24, 2019

Peak Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Aug. 15, 2019
2	Power Sensor	Anritsu	MA2411B	1126001	Aug. 15, 2019

Antenna Conducted Spurious Emissions

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 24, 2019

Power Spectral Density

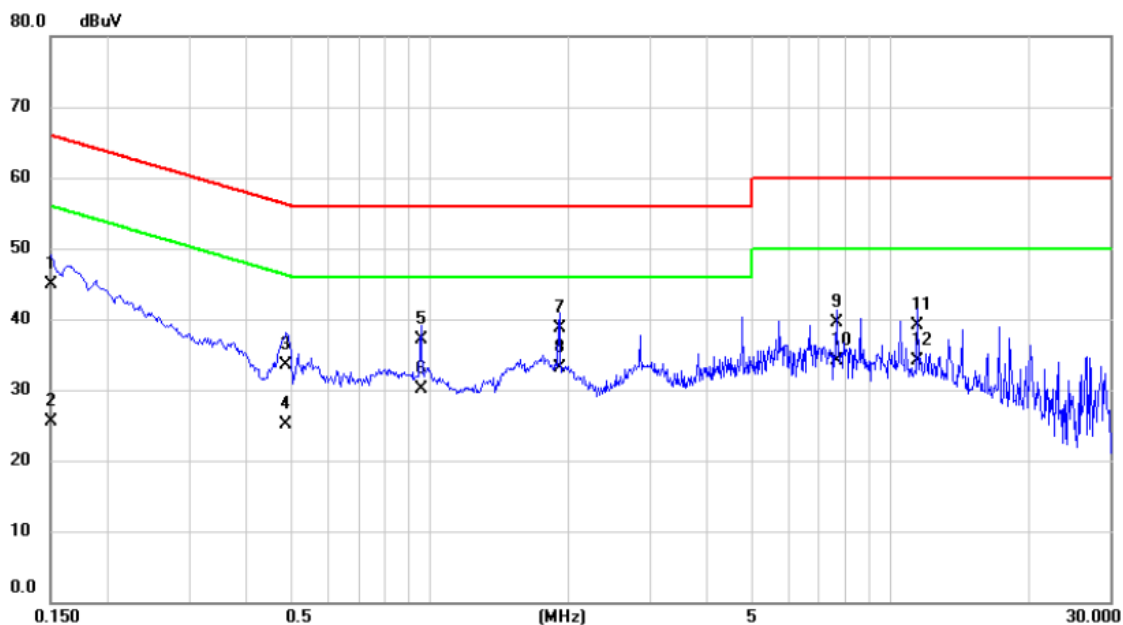
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	R&S/FSP30	100854	May 24, 2019

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

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

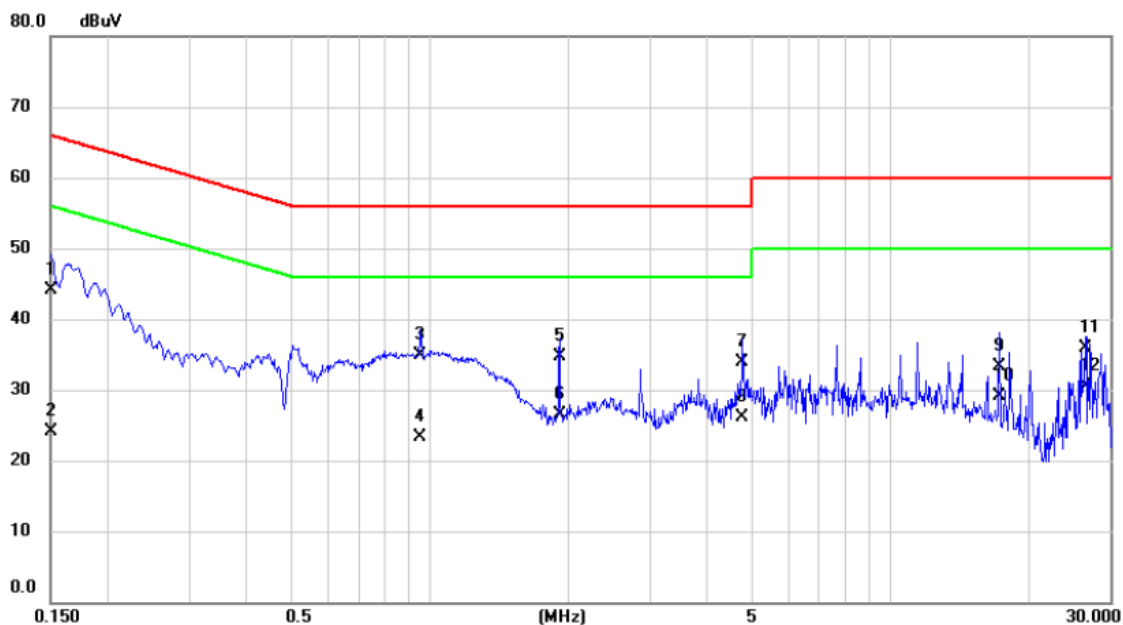
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Test Mode	TX N (HT20) MODE CHANNEL 2412 MHz	Phase	Line
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	35.20	9.63	44.83	66.00	-21.17	QP	
2		0.1500	15.80	9.63	25.43	56.00	-30.57	AVG	
3		0.4875	23.90	9.66	33.56	56.21	-22.65	QP	
4		0.4875	15.40	9.66	25.06	46.21	-21.15	AVG	
5		0.9555	27.40	9.67	37.07	56.00	-18.93	QP	
6		0.9555	20.50	9.67	30.17	46.00	-15.83	AVG	
7		1.9118	29.00	9.69	38.69	56.00	-17.31	QP	
8	*	1.9118	23.50	9.69	33.19	46.00	-12.81	AVG	
9		7.6425	29.60	9.84	39.44	60.00	-20.56	QP	
10		7.6425	24.30	9.84	34.14	50.00	-15.86	AVG	
11		11.4630	29.20	9.92	39.12	60.00	-20.88	QP	
12		11.4630	24.20	9.92	34.12	50.00	-15.88	AVG	

Test Mode	TX N (HT20) MODE CHANNEL 2412 MHz	Phase	Neutral
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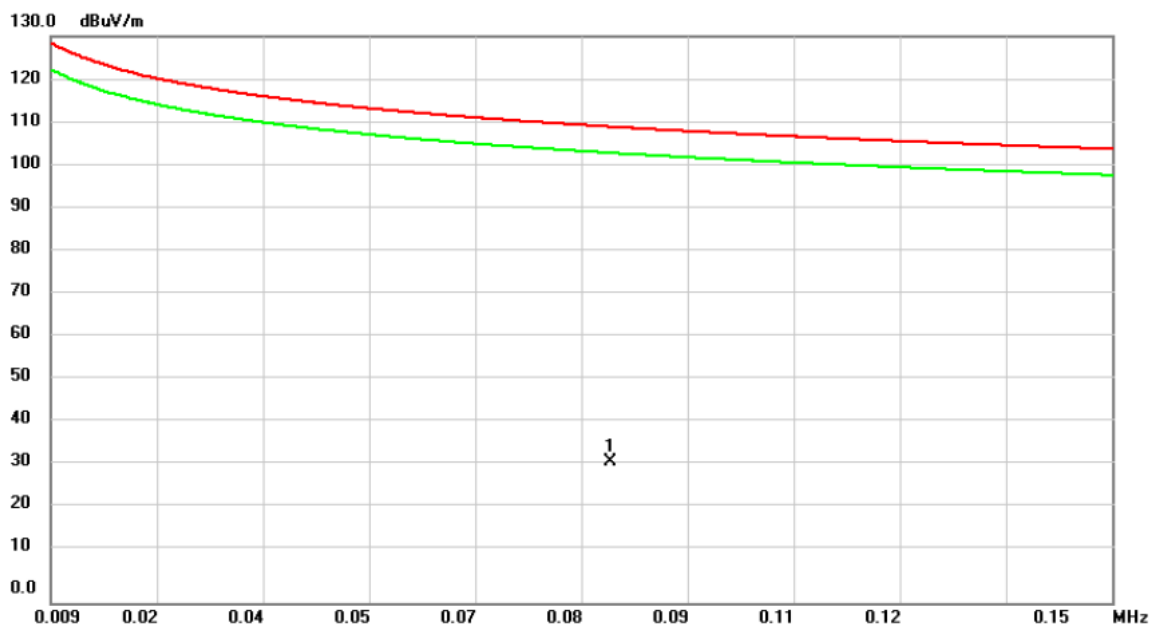


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	34.40	9.62	44.02	66.00	-21.98	QP	
2		0.1500	14.50	9.62	24.12	56.00	-31.88	AVG	
3		0.9532	25.30	9.66	34.96	56.00	-21.04	QP	
4		0.9532	13.60	9.66	23.26	46.00	-22.74	AVG	
5		1.9118	25.00	9.67	34.67	56.00	-21.33	QP	
6	*	1.9118	16.90	9.67	26.57	46.00	-19.43	AVG	
7		4.7760	24.10	9.75	33.85	56.00	-22.15	QP	
8		4.7760	16.30	9.75	26.05	46.00	-19.95	AVG	
9		17.1938	23.30	9.96	33.26	60.00	-26.74	QP	
10		17.1938	19.10	9.96	29.06	50.00	-20.94	AVG	
11		26.4863	26.00	10.00	36.00	60.00	-24.00	QP	
12		26.4863	20.50	10.00	30.50	50.00	-19.50	AVG	

APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

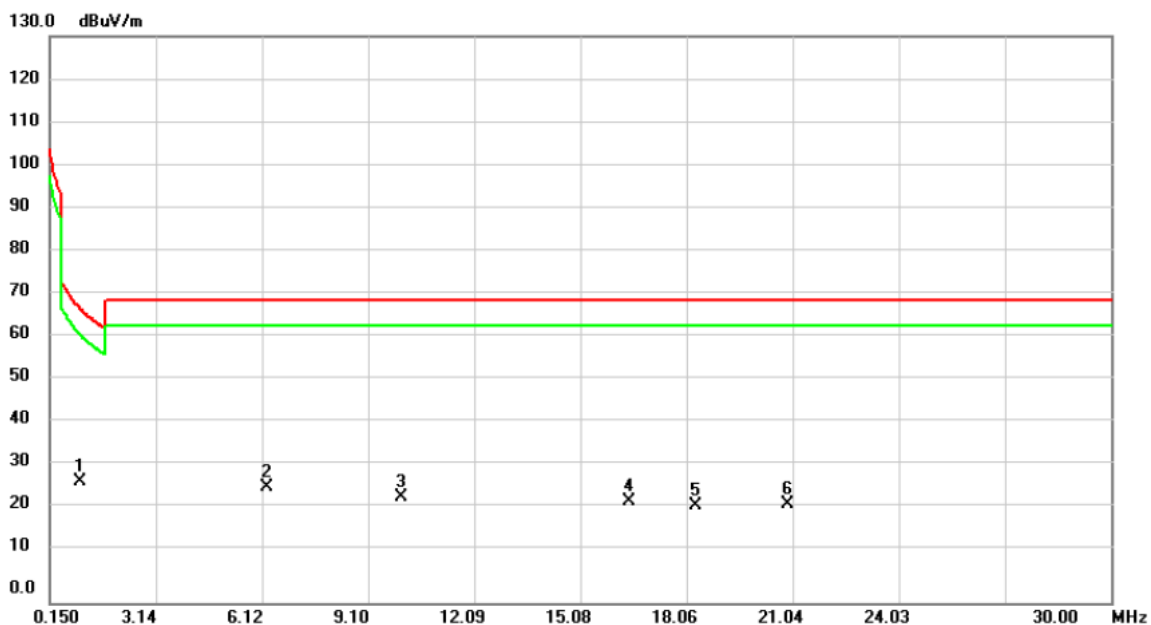
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Test Mode	TX N (HT20) MODE 2412MHz	Azimuth Angle	90°
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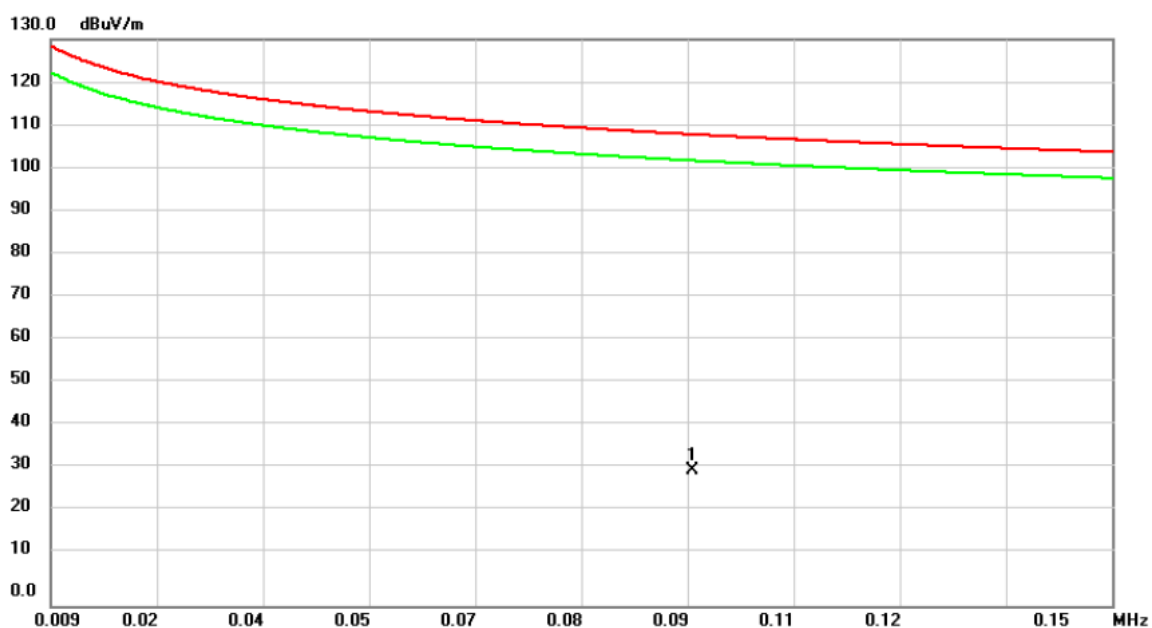
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.0834	14.45	17.90	32.35	109.18	-76.83	peak	

Test Mode	TX N (HT20) MODE 2412MHz	Azimuth Angle	90°
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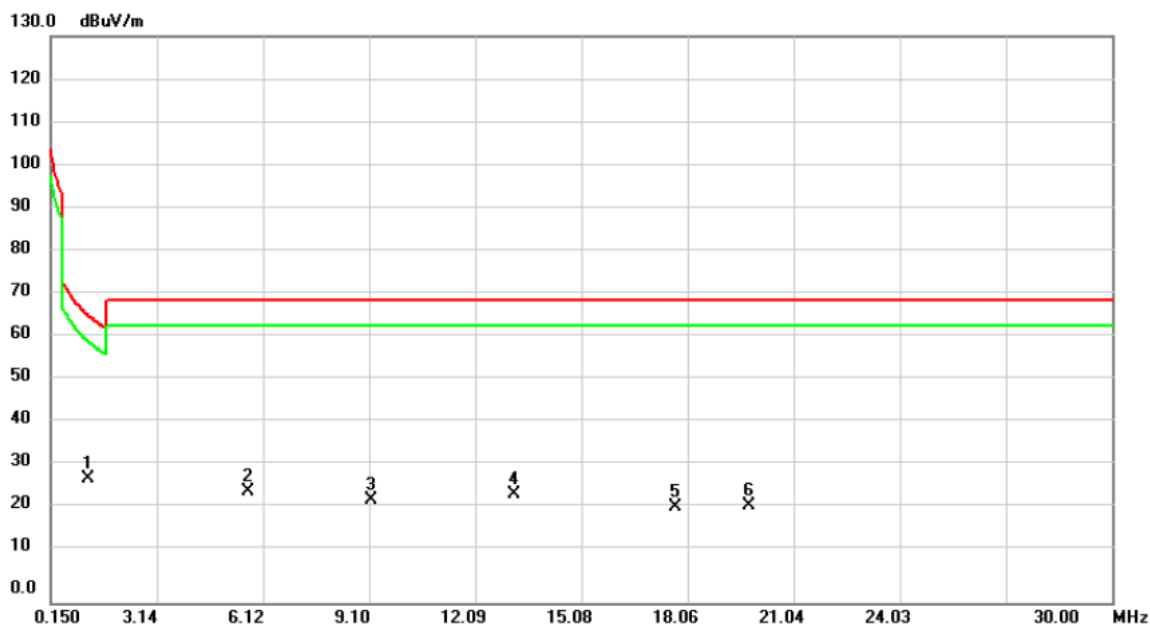
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.9858	28.00	-0.29	27.71	67.73	-40.02	peak	
2		6.2394	30.54	-4.05	26.49	69.54	-43.05	peak	
3		10.0204	28.96	-4.71	24.25	69.54	-45.29	peak	
4		16.4282	28.75	-5.54	23.21	69.54	-46.33	peak	
5		18.2988	28.58	-6.29	22.29	69.54	-47.25	peak	
6		20.9255	29.07	-6.54	22.53	69.54	-47.01	peak	

Test Mode	TX N (HT20) MODE 2412MHz	Azimuth Angle	0°
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.0942	14.40	16.77	31.17	108.12	-76.95	peak	

Test Mode	TX N (HT20) MODE 2412MHz	Azimuth Angle	0°
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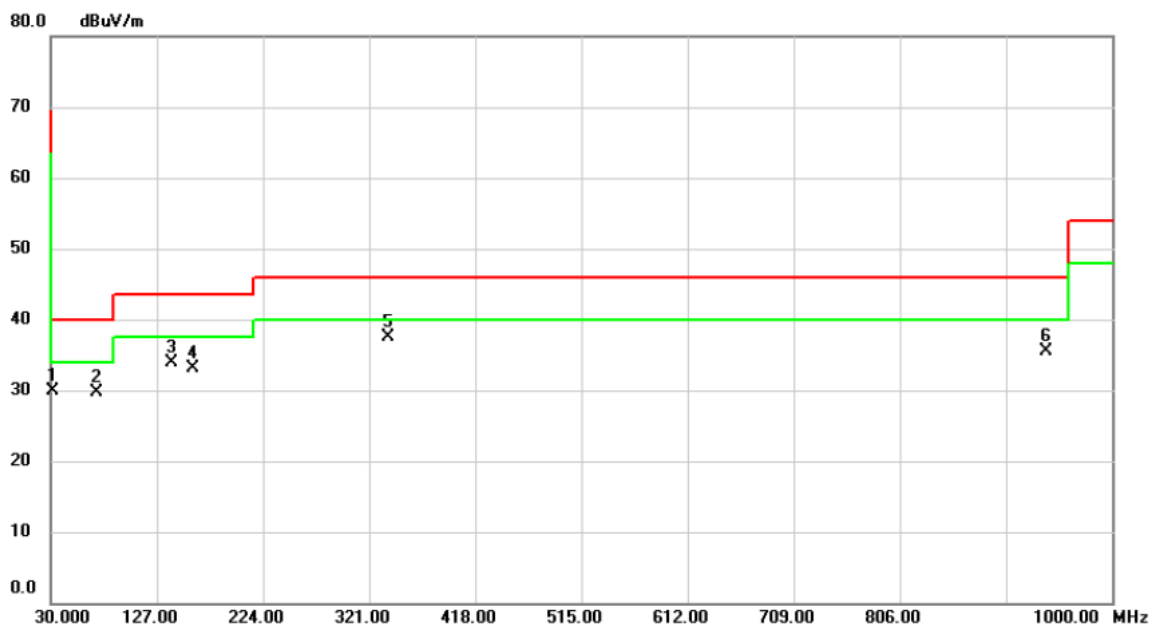


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	1.2245	29.21	-0.93	28.28	65.84	-37.56	peak	
2		5.6822	29.39	-4.00	25.39	69.54	-44.15	peak	
3		9.1448	28.43	-4.72	23.71	69.54	-45.83	peak	
4		13.1646	29.75	-4.82	24.93	69.54	-44.61	peak	
5		17.7416	28.19	-6.13	22.06	69.54	-47.48	peak	
6		19.7714	28.64	-6.52	22.12	69.54	-47.42	peak	

APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1000 MHZ

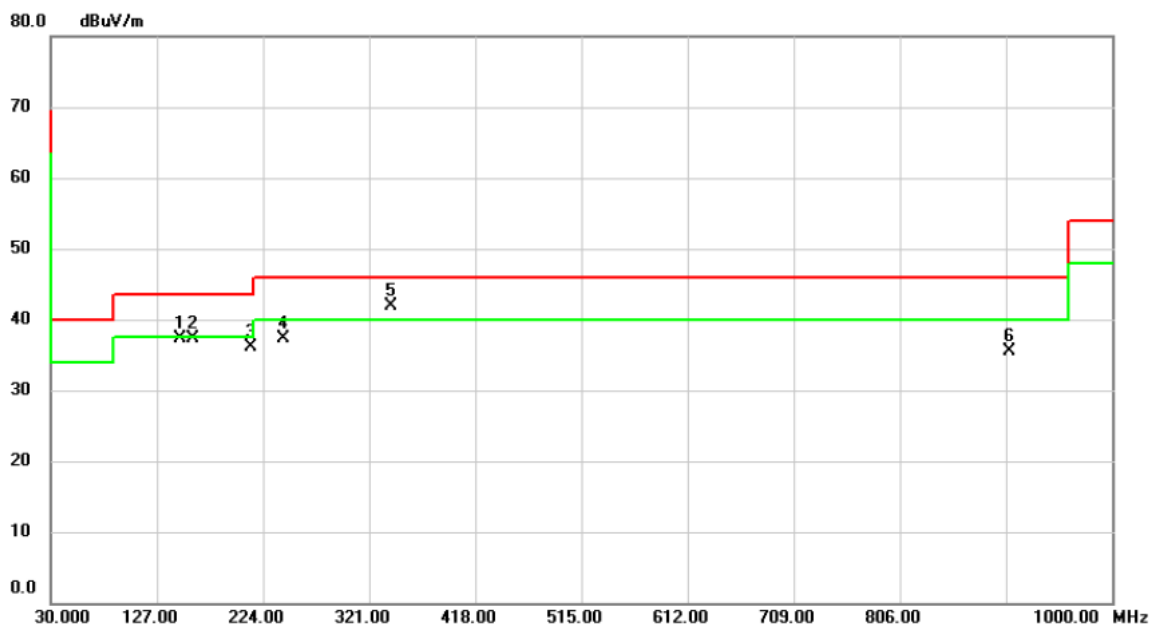
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Test Mode	TX N (HT20) MODE 2412MHz	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		31.9400	38.99	-9.04	29.95	40.00	-10.05	peak	
2		71.7100	40.74	-11.01	29.73	40.00	-10.27	peak	
3		140.5800	42.65	-8.81	33.84	43.50	-9.66	peak	
4		159.9800	41.71	-8.54	33.17	43.50	-10.33	peak	
5	*	338.4600	44.01	-6.50	37.51	46.00	-8.49	peak	
6		939.8600	29.88	5.63	35.51	46.00	-10.49	peak	

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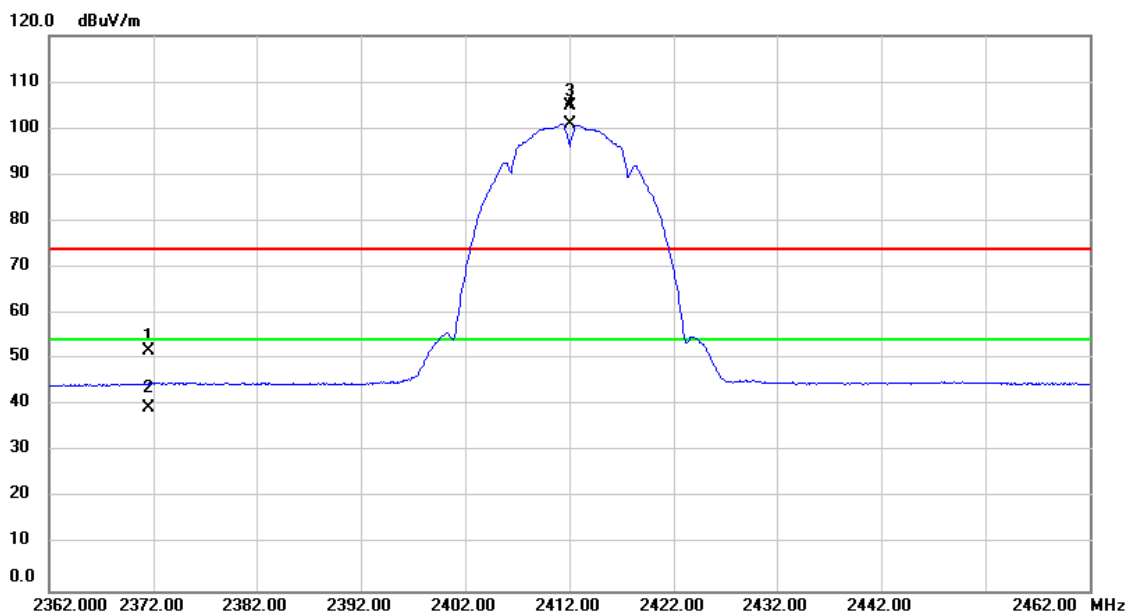


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		148.3400	45.97	-8.65	37.32	43.50	-6.18	peak	
2		159.9800	45.93	-8.54	37.39	43.50	-6.11	peak	
3		213.3300	46.73	-10.65	36.08	43.50	-7.42	peak	
4		242.4300	46.46	-9.13	37.33	46.00	-8.67	peak	
5	*	341.3700	48.39	-6.43	41.96	46.00	-4.04	peak	
6		905.9100	30.46	5.07	35.53	46.00	-10.47	peak	

APPENDIX D RADIATED EMISSIONS - ABOVE 1000 MHZ

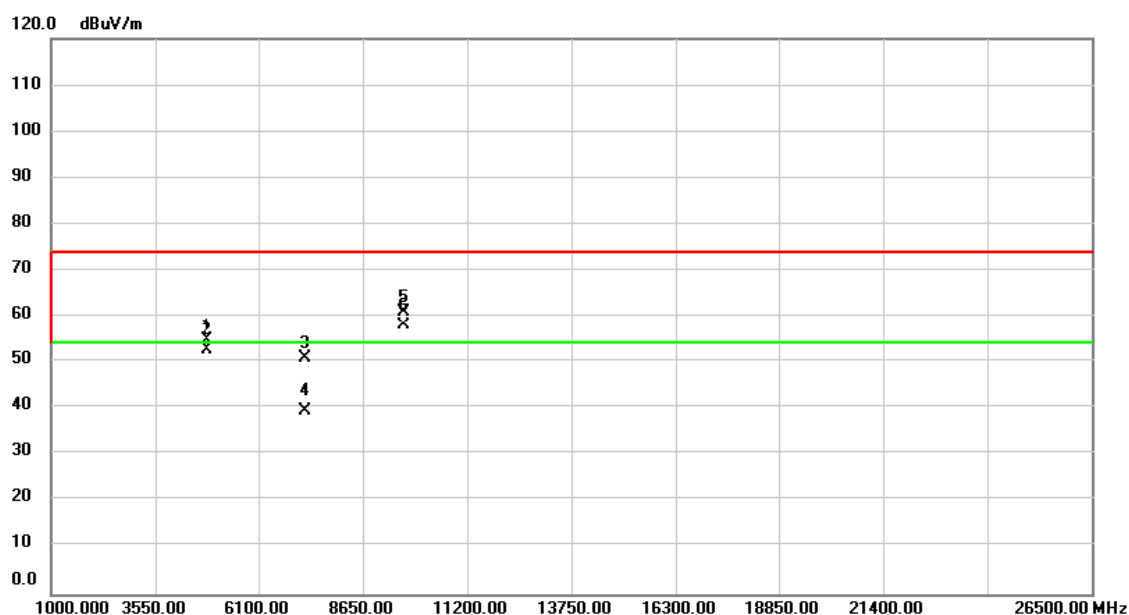
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Test Mode	TX B MODE _2412 MHz	Polarization	Vertical
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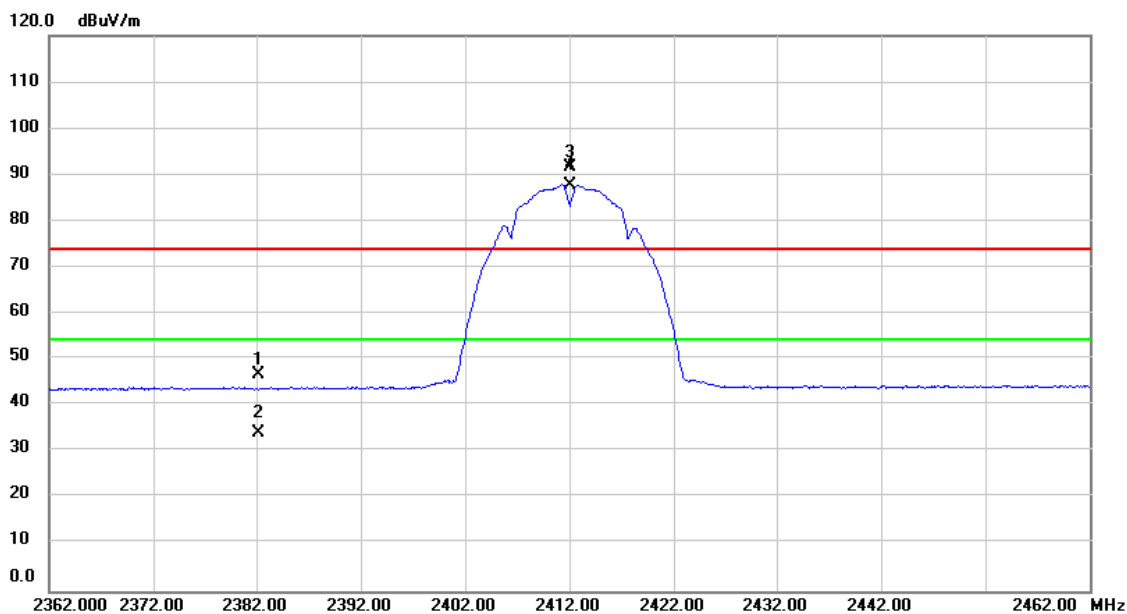
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2371.548	21.05	30.78	51.83	74.00	-22.17	peak	
2		2371.548	8.61	30.78	39.39	54.00	-14.61	AVG	
3	X	2412.000	73.79	30.92	104.71	74.00	30.71	peak	No Limit
4	*	2412.000	69.97	30.92	100.89	54.00	46.89	AVG	No Limit

Test Mode	TX B MODE _2412 MHz	Polarization	Vertical
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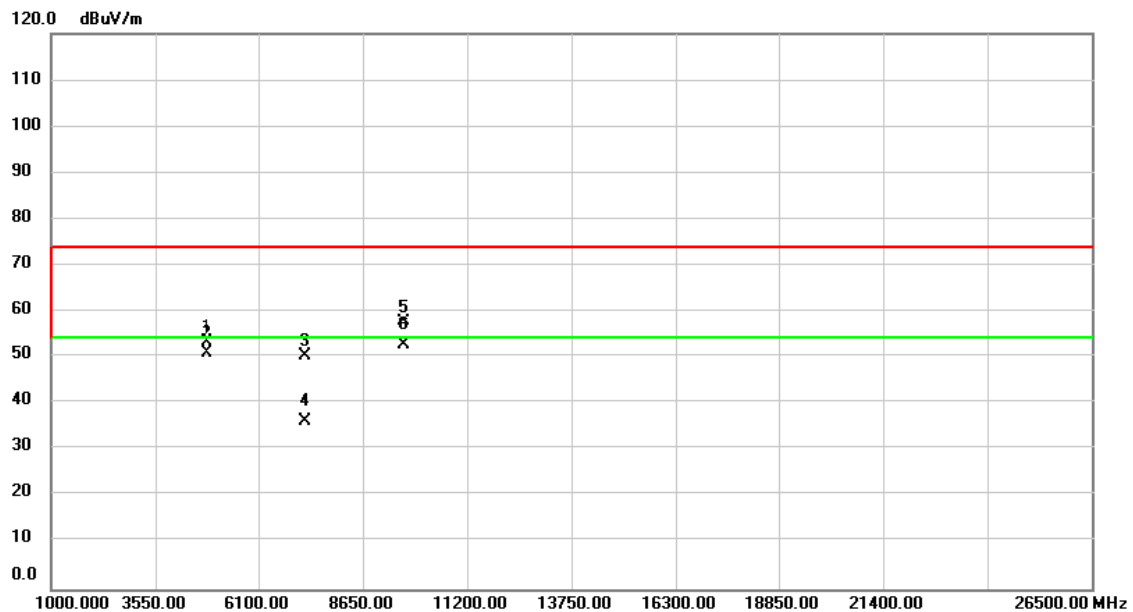
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	66.36	-11.48	54.88	74.00	-19.12	peak	
2		4824.000	64.12	-11.48	52.64	54.00	-1.36	AVG	
3		7236.000	55.99	-5.26	50.73	74.00	-23.27	peak	
4		7236.000	44.78	-5.26	39.52	54.00	-14.48	AVG	
5		9648.000	60.63	0.30	60.93	84.71	-23.78	peak	
6	*	9648.000	57.81	0.30	58.11	80.89	-22.78	AVG	

Test Mode	TX B MODE _2412 MHz	Polarization	Horizontal
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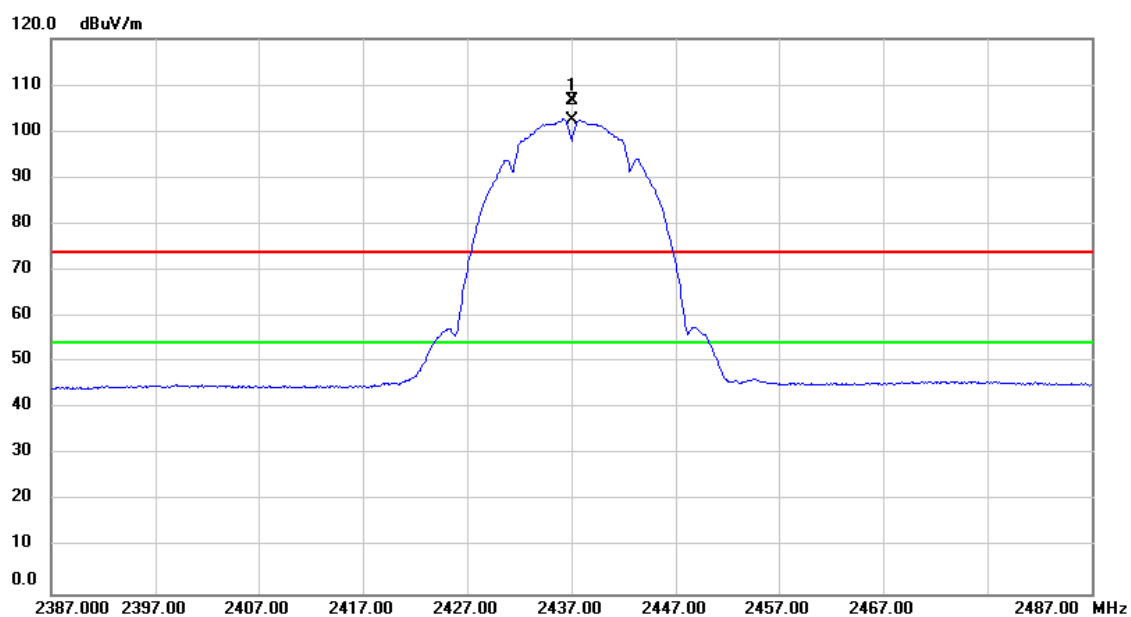
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2382.160	15.97	30.82	46.79	74.00	-27.21	peak	
2		2382.160	3.31	30.82	34.13	54.00	-19.87	AVG	
3	X	2412.000	60.87	30.92	91.79	74.00	17.79	peak	No Limit
4	*	2412.000	56.97	30.92	87.89	54.00	33.89	AVG	No Limit

Test Mode	TX B MODE _2412 MHz	Polarization	Horizontal
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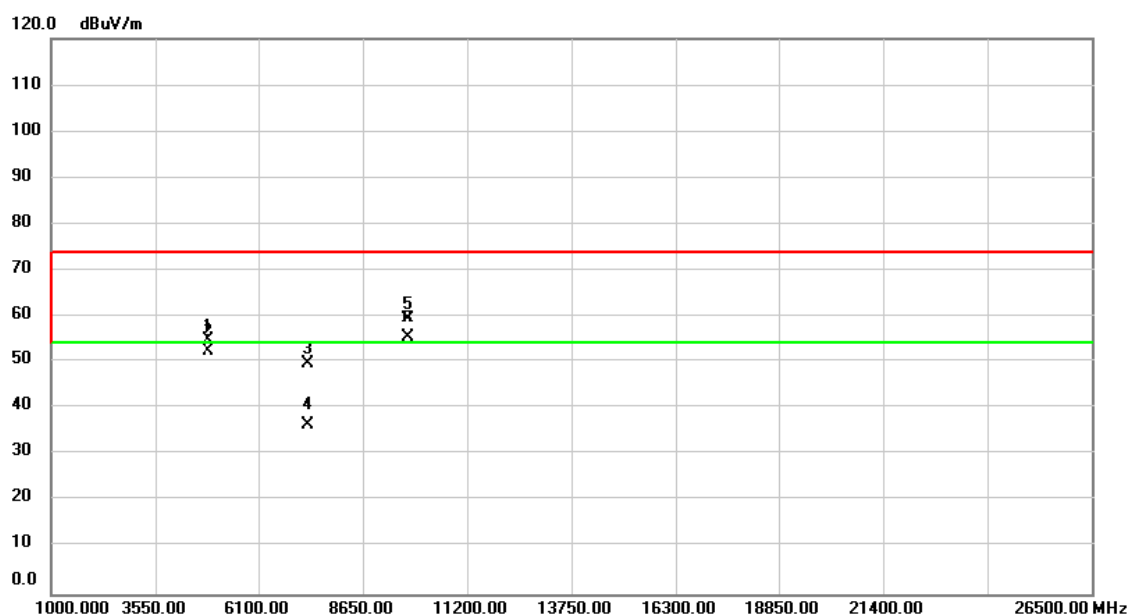
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	64.82	-11.48	53.34	74.00	-20.66	peak	
2		4824.000	62.20	-11.48	50.72	54.00	-3.28	AVG	
3		7236.000	55.61	-5.26	50.35	74.00	-23.65	peak	
4		7236.000	41.45	-5.26	36.19	54.00	-17.81	AVG	
5		9648.000	57.59	0.30	57.89	71.79	-13.90	peak	
6	*	9648.000	52.36	0.30	52.66	67.89	-15.53	AVG	

Test Mode	TX B MODE _2437 MHz	Polarization	Vertical
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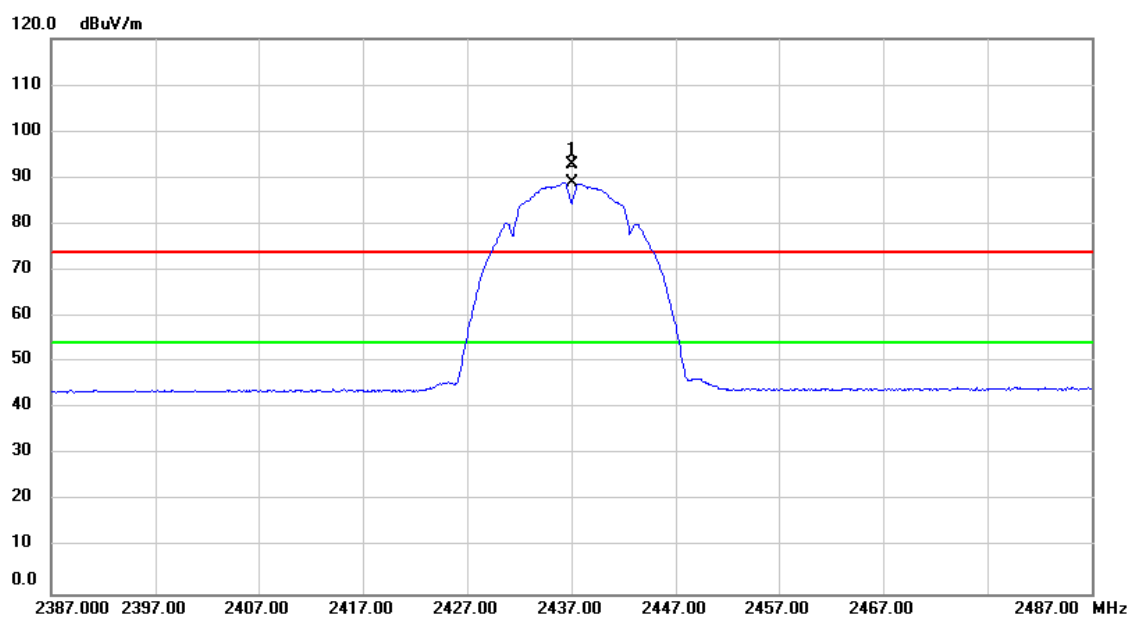
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	75.51	31.01	106.52	74.00	32.52	peak	No Limit
2	*	2437.000	71.57	31.01	102.58	54.00	48.58	AVG	No Limit

Test Mode	TX B MODE _2437 MHz	Polarization	Vertical
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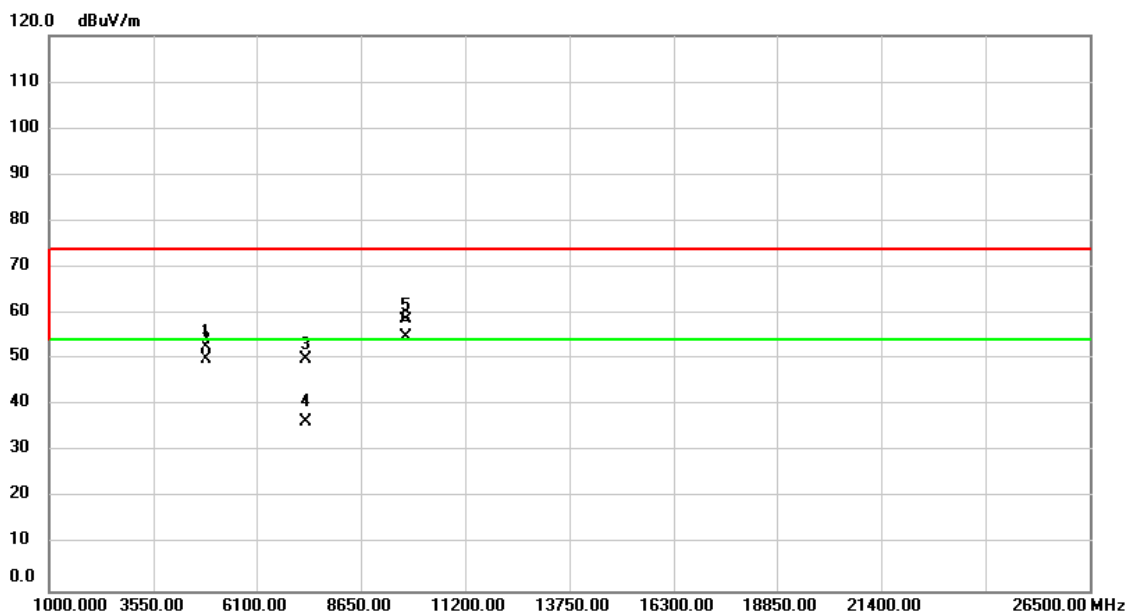
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	66.08	-11.42	54.66	74.00	-19.34	peak	
2		4874.000	63.79	-11.42	52.37	54.00	-1.63	AVG	
3		7311.000	54.79	-4.99	49.80	74.00	-24.20	peak	
4		7311.000	41.57	-4.99	36.58	54.00	-17.42	AVG	
5		9748.000	59.10	0.56	59.66	86.52	-26.86	peak	
6	*	9748.000	54.94	0.56	55.50	82.58	-27.08	AVG	

Test Mode	TX B MODE _2437 MHz	Polarization	Horizontal
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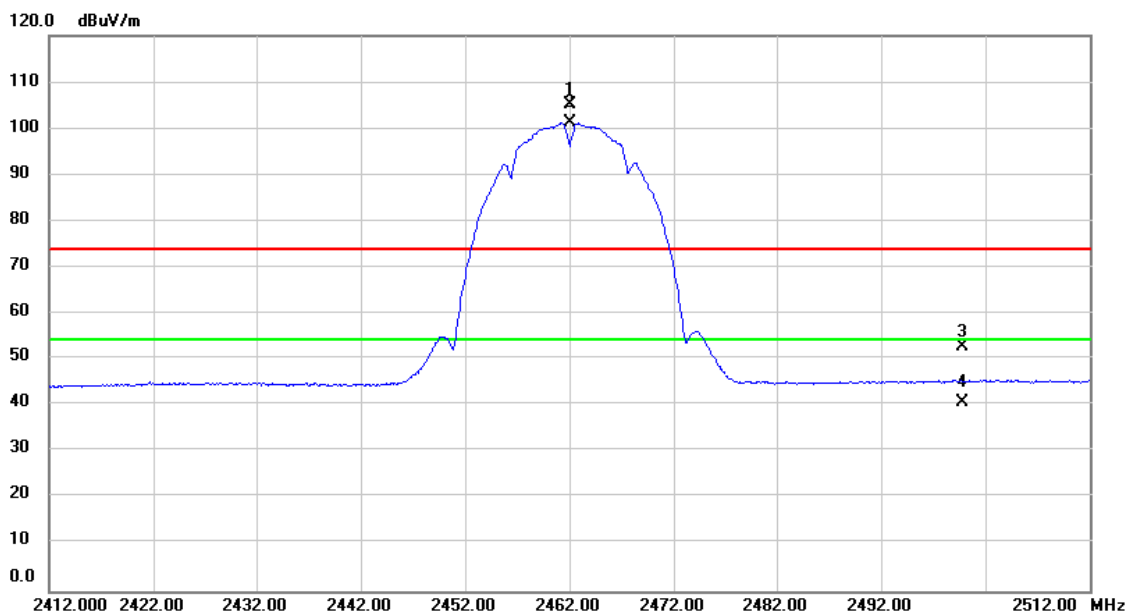
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	61.79	31.01	92.80	74.00	18.80	peak	No Limit
2	*	2437.000	57.97	31.01	88.98	54.00	34.98	AVG	No Limit

Test Mode	TX B MODE _2437 MHz	Polarization	Horizontal
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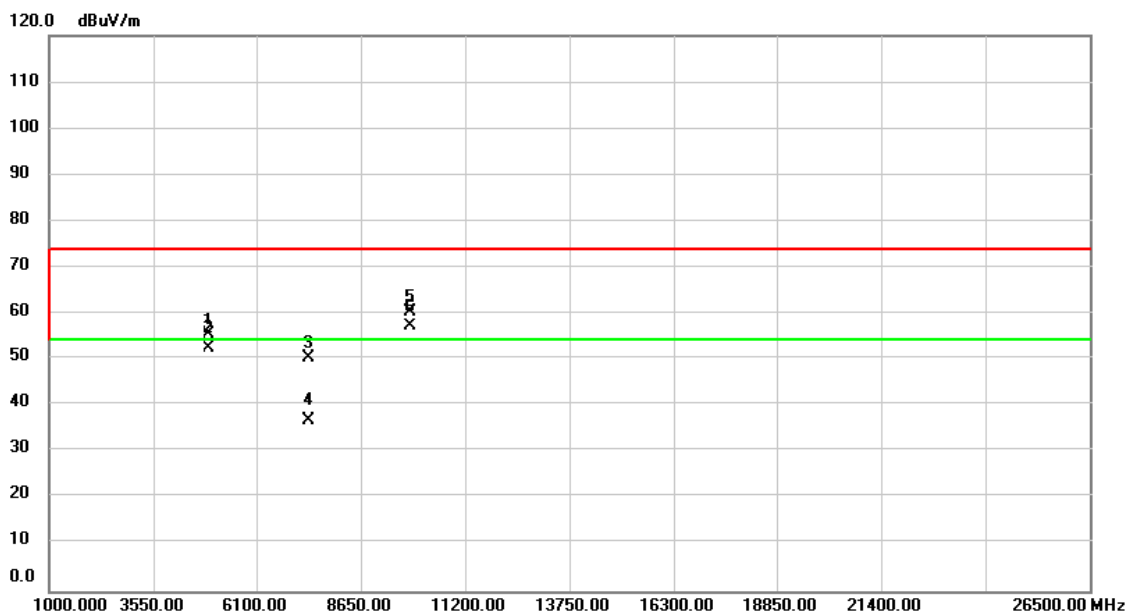
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	64.17	-11.42	52.75	74.00	-21.25	peak	
2		4874.000	61.23	-11.42	49.81	54.00	-4.19	AVG	
3		7311.000	54.91	-4.99	49.92	74.00	-24.08	peak	
4		7311.000	41.46	-4.99	36.47	54.00	-17.53	AVG	
5		9748.000	58.23	0.56	58.79	72.80	-14.01	peak	
6	*	9748.000	54.25	0.56	54.81	68.98	-14.71	AVG	

Test Mode	TX B MODE _2462 MHz	Polarization	Vertical
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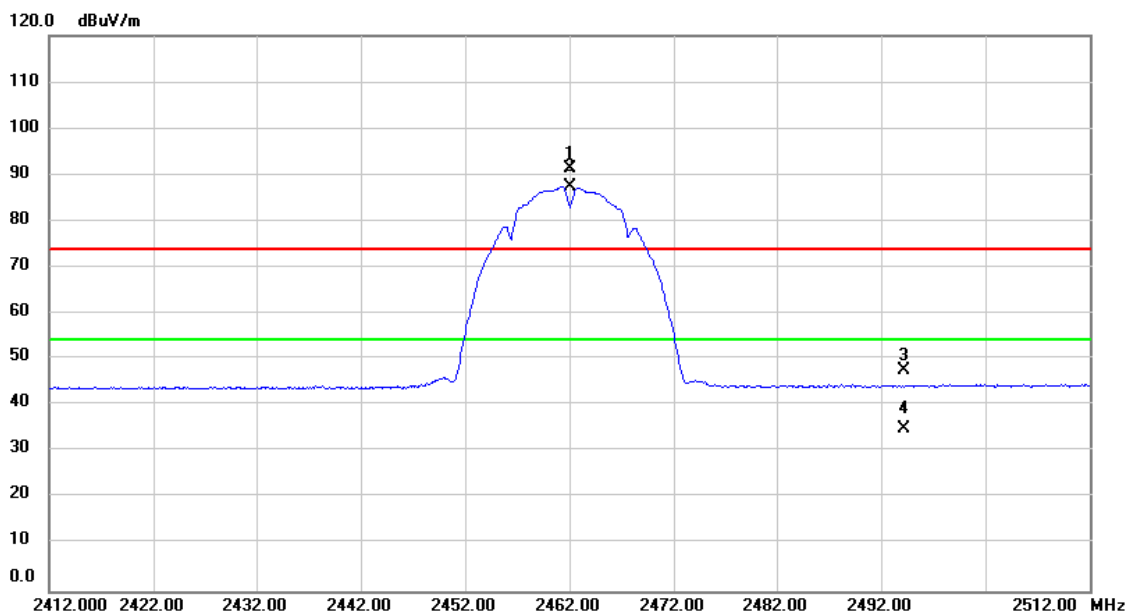
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	73.92	31.09	105.01	74.00	31.01	peak	No Limit
2	*	2462.000	70.11	31.09	101.20	54.00	47.20	AVG	No Limit
3		2499.753	21.35	31.23	52.58	74.00	-21.42	peak	
4		2499.753	9.39	31.23	40.62	54.00	-13.38	AVG	

Test Mode	TX B MODE _2462 MHz	Polarization	Vertical
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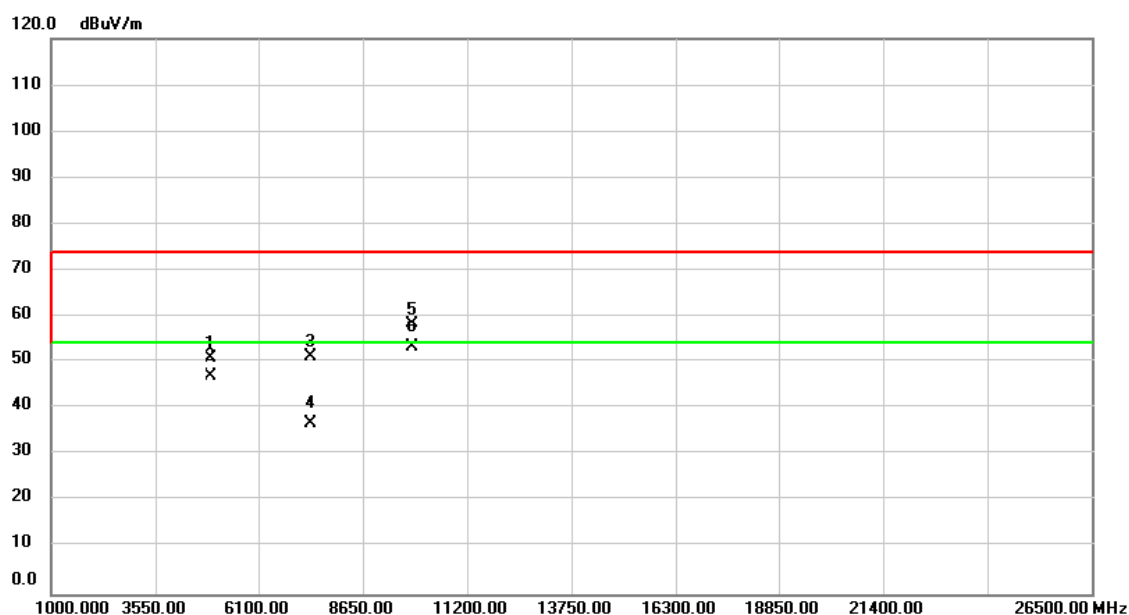
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	66.66	-11.37	55.29	74.00	-18.71	peak	
2		4924.000	63.81	-11.37	52.44	54.00	-1.56	AVG	
3		7386.000	55.01	-4.72	50.29	74.00	-23.71	peak	
4		7386.000	41.56	-4.72	36.84	54.00	-17.16	AVG	
5		9848.000	59.73	0.81	60.54	85.10	-24.56	peak	
6	*	9848.000	56.23	0.81	57.04	81.20	-24.14	AVG	

Test Mode	TX B MODE _2462 MHz	Polarization	Horizontal
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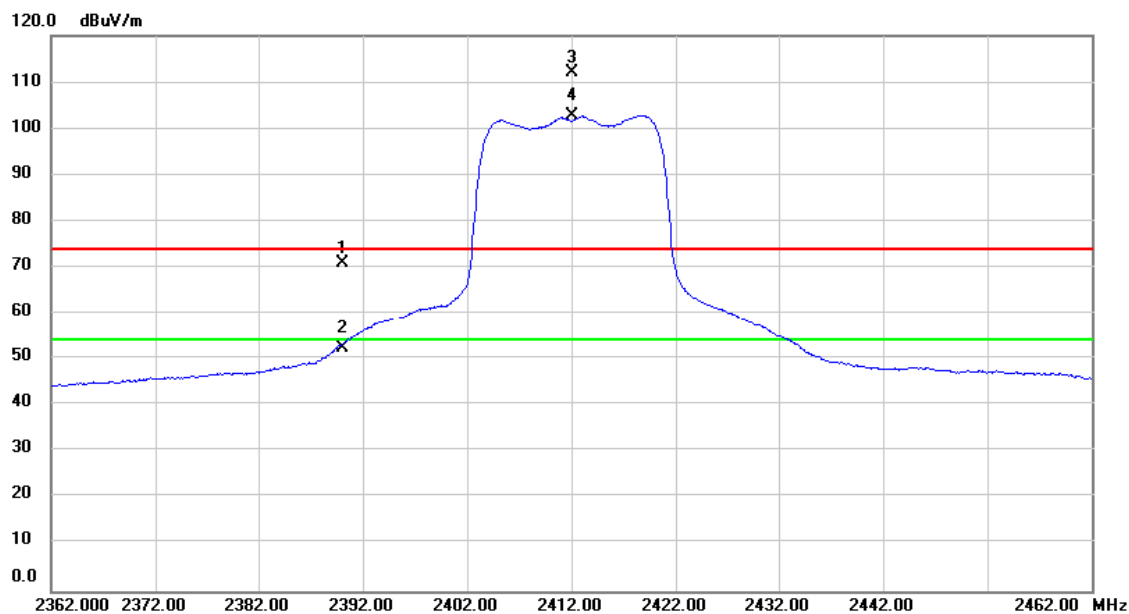
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	60.25	31.09	91.34	74.00	17.34	peak	No Limit
2	*	2462.000	56.40	31.09	87.49	54.00	33.49	AVG	No Limit
3		2494.242	16.28	31.21	47.49	74.00	-26.51	peak	
4		2494.242	3.64	31.21	34.85	54.00	-19.15	AVG	

Test Mode	TX B MODE _2462 MHz	Polarization	Horizontal
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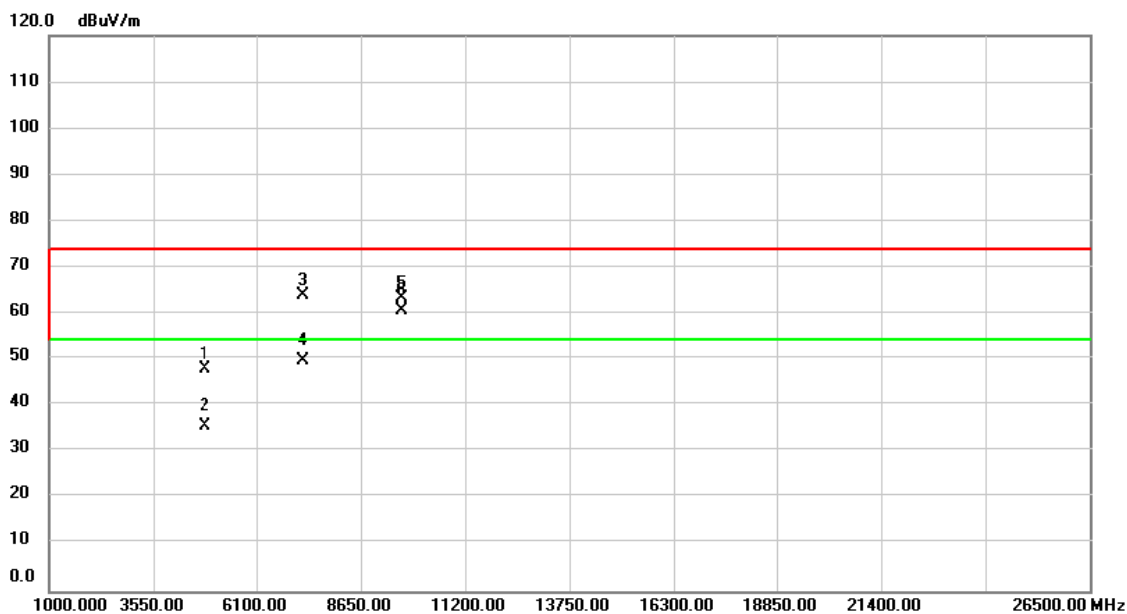
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	62.08	-11.37	50.71	74.00	-23.29	peak	
2		4924.000	58.20	-11.37	46.83	54.00	-7.17	AVG	
3		7386.000	55.75	-4.72	51.03	74.00	-22.97	peak	
4		7386.000	41.54	-4.72	36.82	54.00	-17.18	AVG	
5		9848.000	57.42	0.81	58.23	71.34	-13.11	peak	
6	*	9848.000	52.50	0.81	53.31	67.49	-14.18	AVG	

Test Mode	TX G MODE _2412 MHz	Polarization	Vertical
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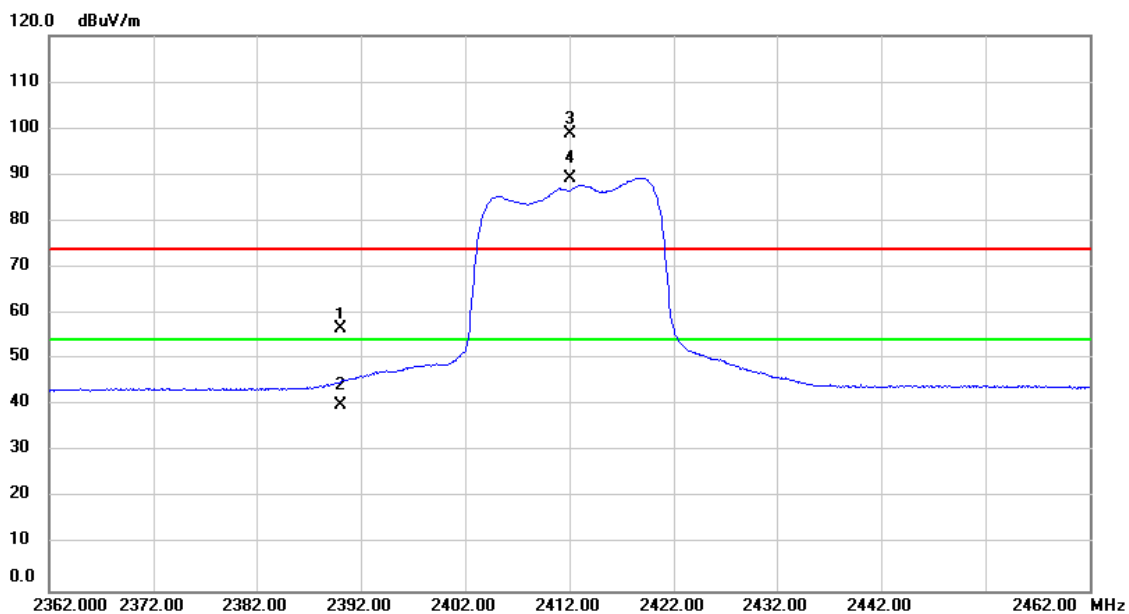
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	40.03	30.84	70.87	74.00	-3.13	peak	
2		2390.000	21.56	30.84	52.40	54.00	-1.60	AVG	
3	X	2412.000	81.13	30.92	112.05	74.00	38.05	peak	No Limit
4	*	2412.000	71.85	30.92	102.77	54.00	48.77	AVG	No Limit

Test Mode	TX G MODE _2412 MHz	Polarization	Vertical
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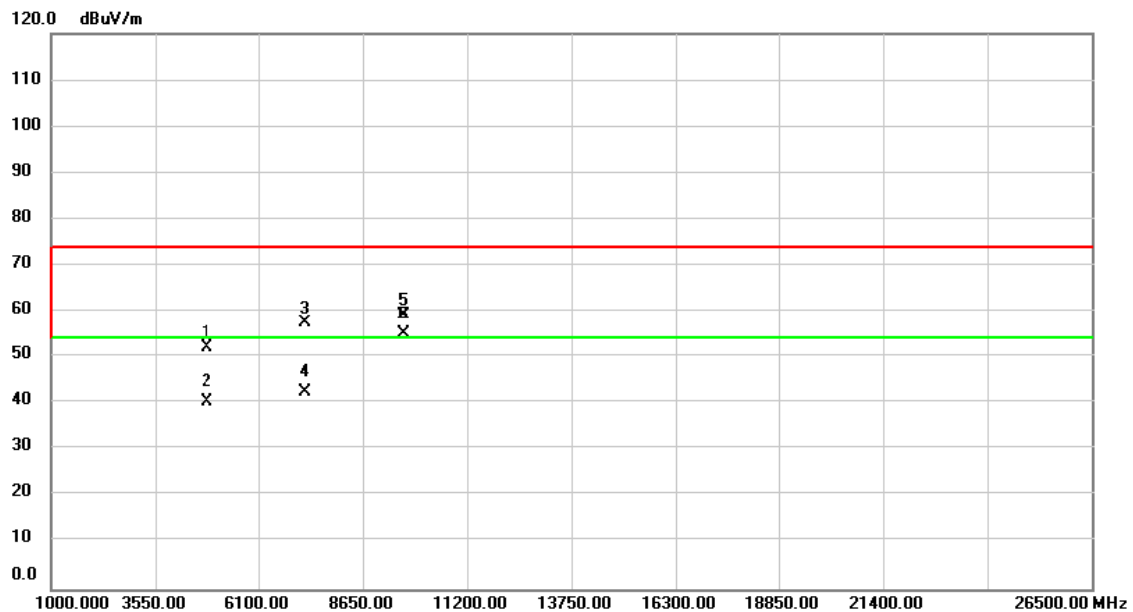
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	59.32	-11.48	47.84	74.00	-26.16	peak	
2		4824.000	47.02	-11.48	35.54	54.00	-18.46	AVG	
3		7236.000	69.41	-5.26	64.15	74.00	-9.85	peak	
4		7236.000	54.78	-5.26	49.52	54.00	-4.48	AVG	
5		9648.000	63.19	0.30	63.49	92.05	-28.56	peak	
6	*	9648.000	60.58	0.30	60.88	82.77	-21.89	AVG	

Test Mode	TX G MODE _2412 MHz	Polarization	Horizontal
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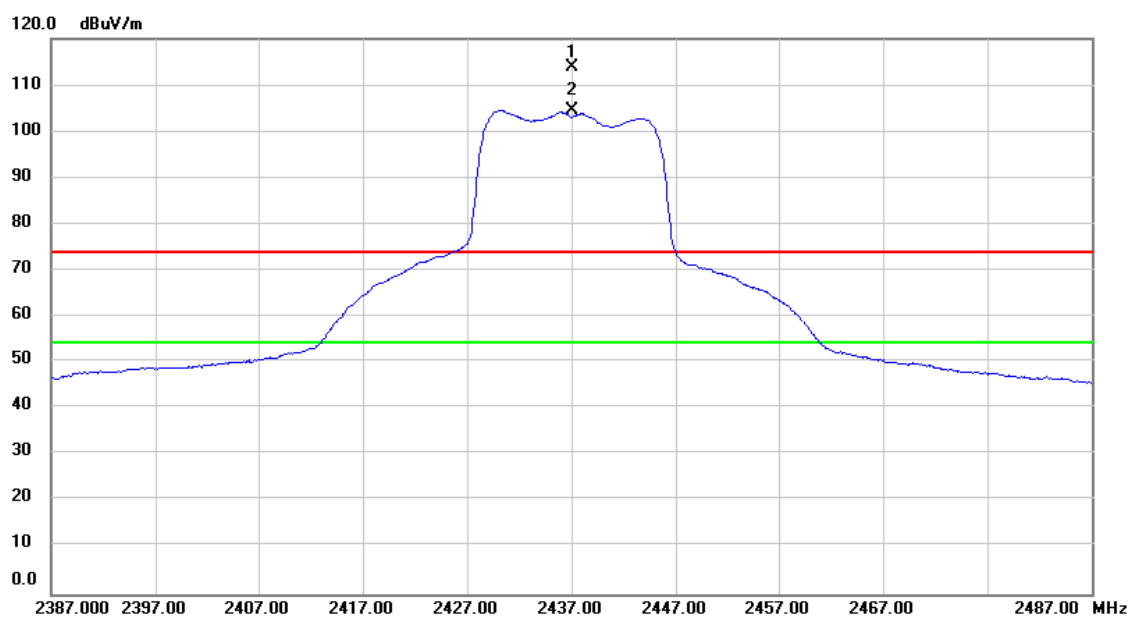
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.79	30.84	56.63	74.00	-17.37	peak	
2		2390.000	9.16	30.84	40.00	54.00	-14.00	AVG	
3	X	2412.000	67.96	30.92	98.88	74.00	24.88	peak	No Limit
4	*	2412.000	58.47	30.92	89.39	54.00	35.39	AVG	No Limit

Test Mode	TX G MODE _2412 MHz	Polarization	Horizontal
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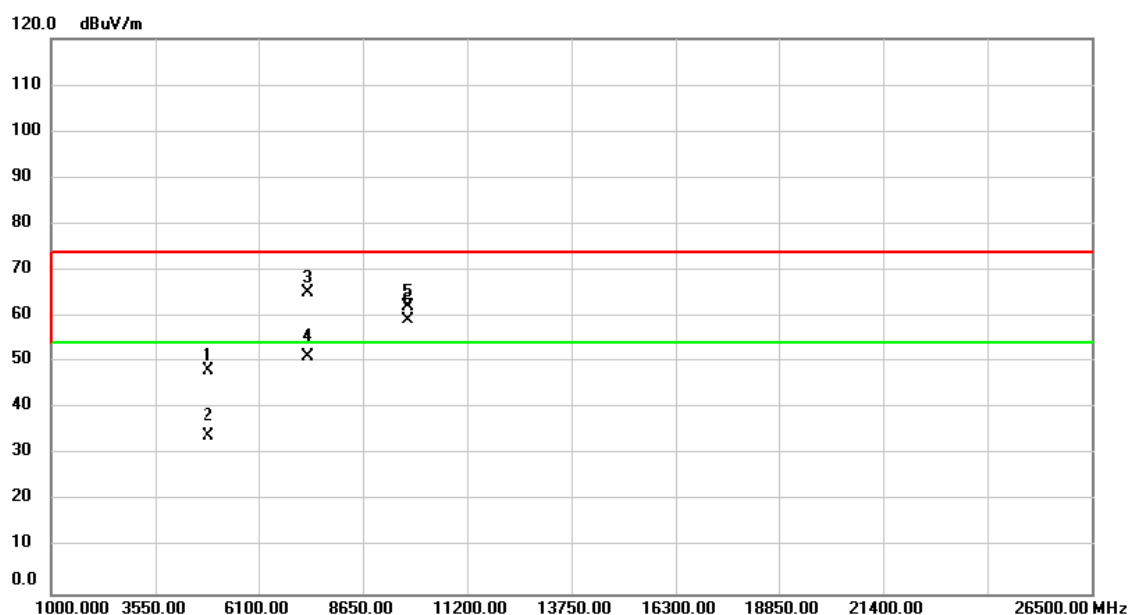
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	63.48	-11.48	52.00	74.00	-22.00	peak	
2		4824.000	51.87	-11.48	40.39	54.00	-13.61	AVG	
3		7236.000	62.62	-5.26	57.36	74.00	-16.64	peak	
4		7236.000	47.74	-5.26	42.48	54.00	-11.52	AVG	
5		9648.000	58.89	0.30	59.19	78.78	-19.59	peak	
6	*	9648.000	54.62	0.30	54.92	69.39	-14.47	AVG	

Test Mode	TX G MODE _2437 MHz	Polarization	Vertical
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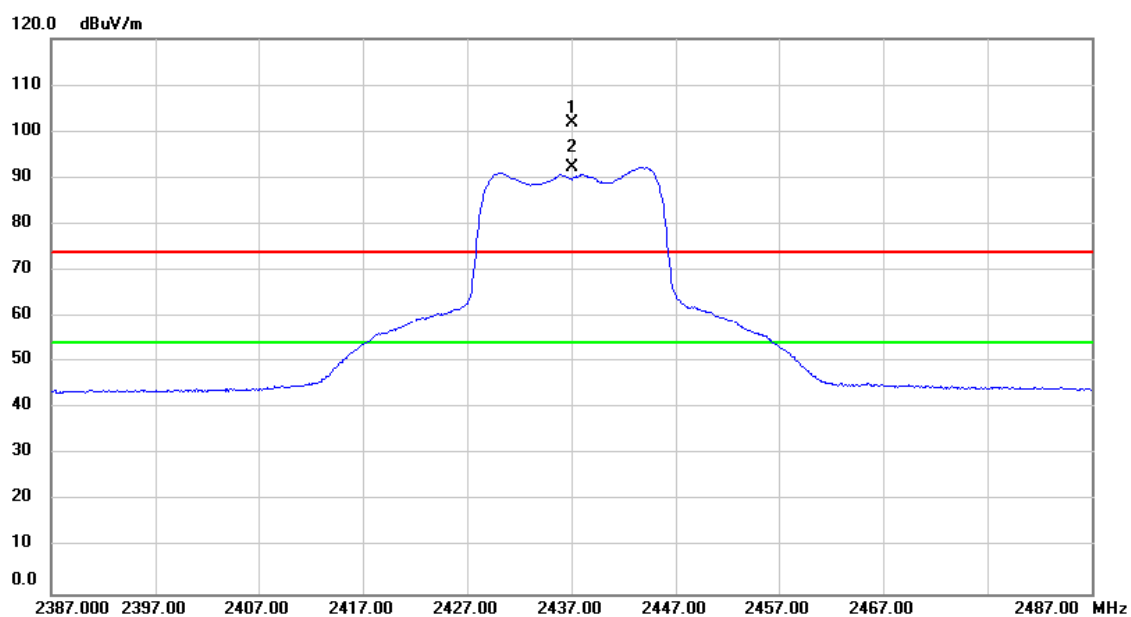
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	82.99	31.01	114.00	74.00	40.00	peak	No Limit
2	*	2437.000	73.59	31.01	104.60	54.00	50.60	AVG	No Limit

Test Mode	TX G MODE _2437 MHz	Polarization	Vertical
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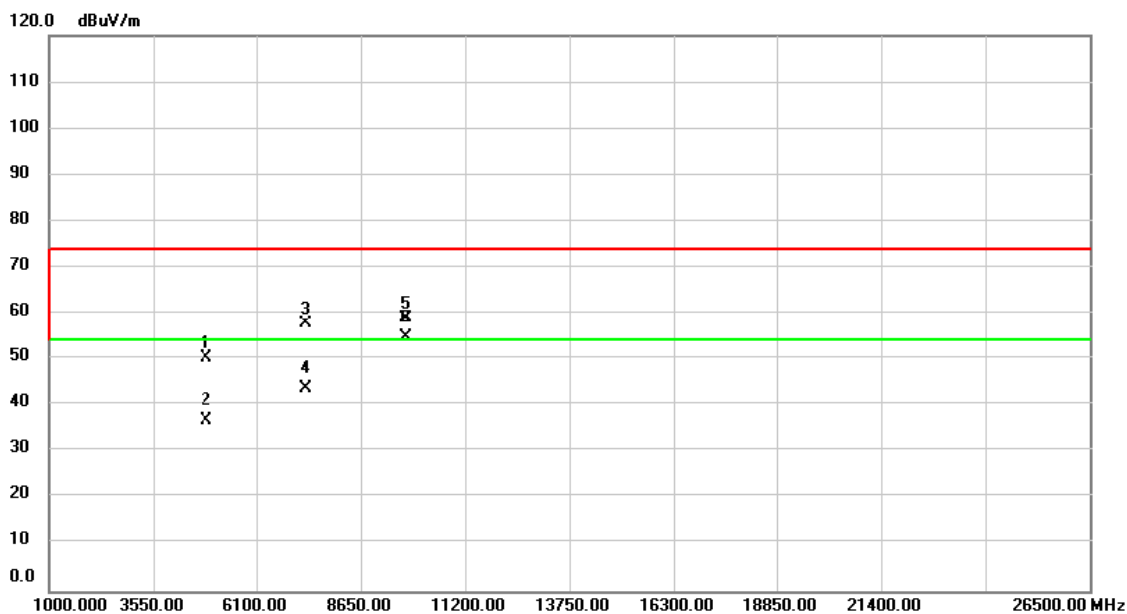
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	59.51	-11.42	48.09	74.00	-25.91	peak	
2		4874.000	45.38	-11.42	33.96	54.00	-20.04	AVG	
3		7311.000	70.11	-4.99	65.12	74.00	-8.88	peak	
4		7311.000	56.02	-4.99	51.03	54.00	-2.97	AVG	
5		9748.000	61.69	0.56	62.25	94.00	-31.75	peak	
6	*	9748.000	58.62	0.56	59.18	84.60	-25.42	AVG	

Test Mode	TX G MODE _2437 MHz	Polarization	Horizontal
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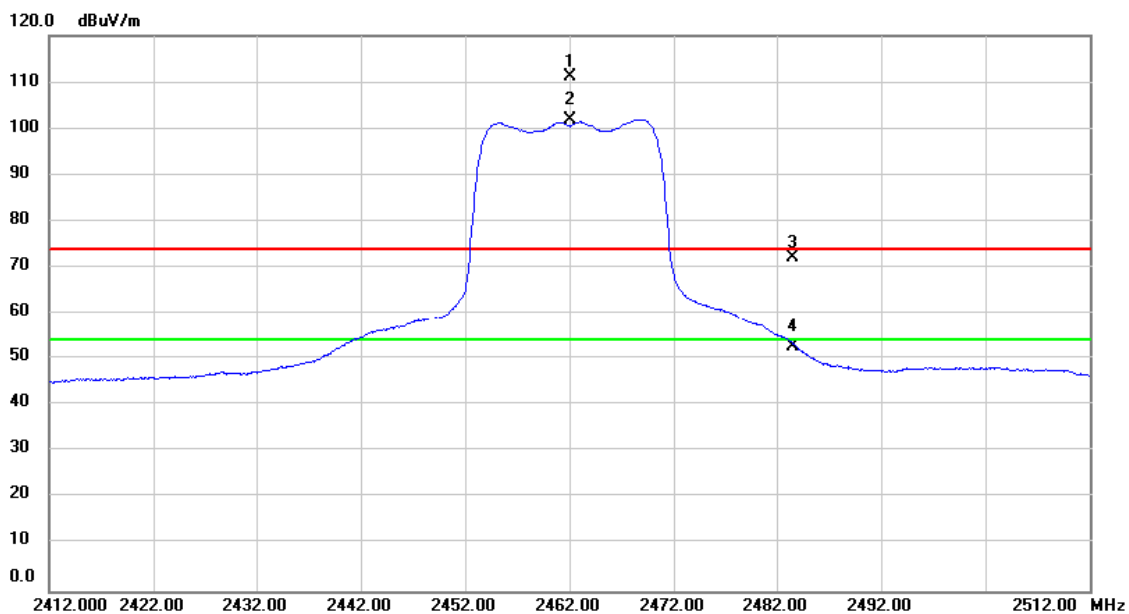
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	70.83	31.01	101.84	74.00	27.84	peak	No Limit
2	*	2437.000	61.30	31.01	92.31	54.00	38.31	AVG	No Limit

Test Mode	TX G MODE _2437 MHz	Polarization	Horizontal
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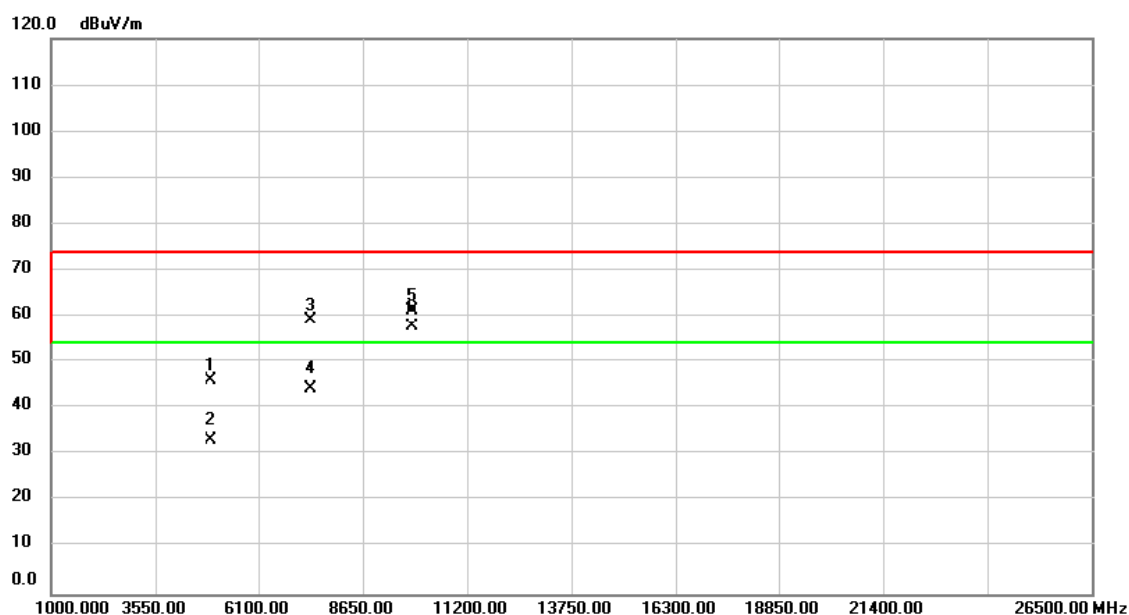
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	61.82	-11.42	50.40	74.00	-23.60	peak	
2		4874.000	48.17	-11.42	36.75	54.00	-17.25	AVG	
3		7311.000	62.84	-4.99	57.85	74.00	-16.15	peak	
4		7311.000	48.68	-4.99	43.69	54.00	-10.31	AVG	
5		9748.000	58.54	0.56	59.10	81.84	-22.74	peak	
6	*	9748.000	54.15	0.56	54.71	72.31	-17.60	AVG	

Test Mode	TX G MODE _2462 MHz	Polarization	Vertical
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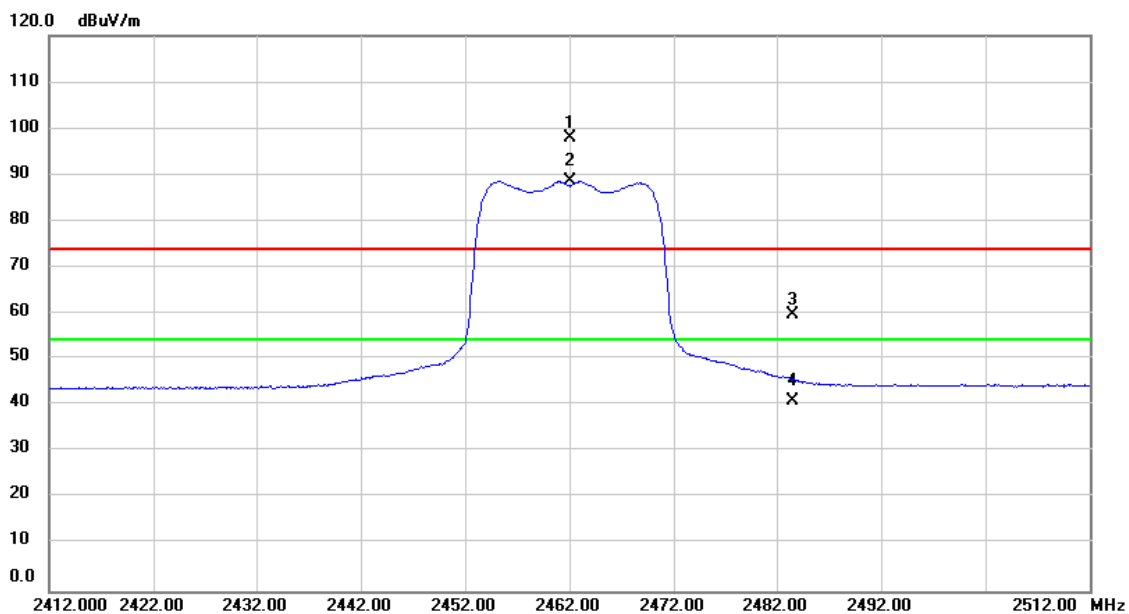
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	80.11	31.09	111.20	74.00	37.20	peak	No Limit
2	*	2462.000	70.85	31.09	101.94	54.00	47.94	AVG	No Limit
3		2483.533	41.09	31.17	72.26	74.00	-1.74	peak	
4		2483.533	21.38	31.17	52.55	54.00	-1.45	AVG	

Test Mode	TX G MODE _2462 MHz	Polarization	Vertical
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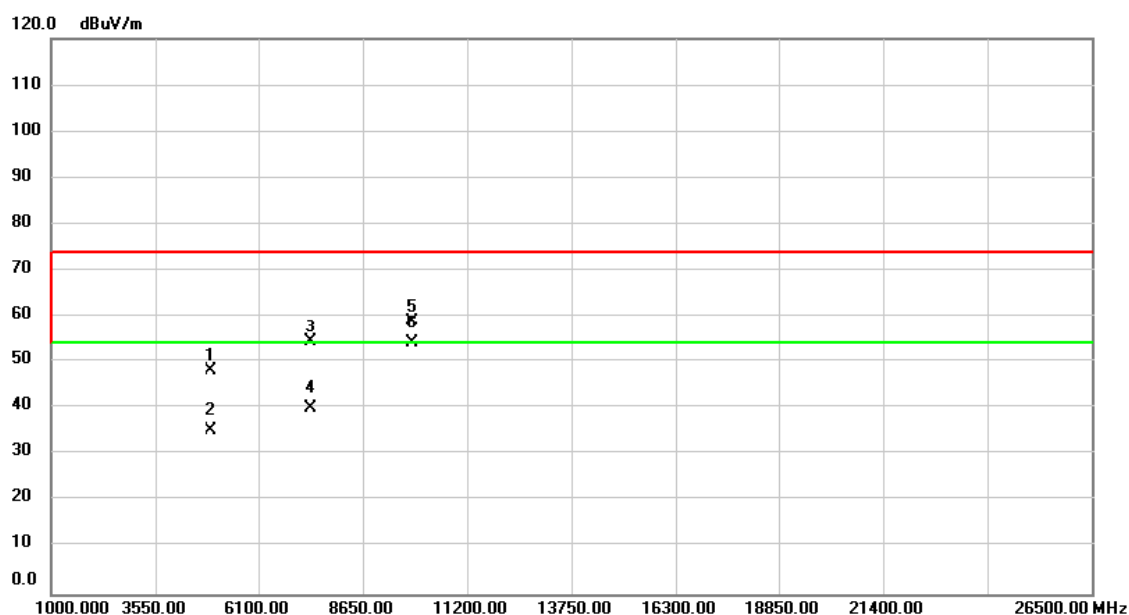
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	57.54	-11.37	46.17	74.00	-27.83	peak	
2		4924.000	44.66	-11.37	33.29	54.00	-20.71	AVG	
3		7386.000	64.03	-4.72	59.31	74.00	-14.69	peak	
4		7386.000	48.97	-4.72	44.25	54.00	-9.75	AVG	
5		9848.000	60.59	0.81	61.40	91.20	-29.80	peak	
6	*	9848.000	57.04	0.81	57.85	81.94	-24.09	AVG	

Test Mode	TX G MODE _2462 MHz	Polarization	Horizontal
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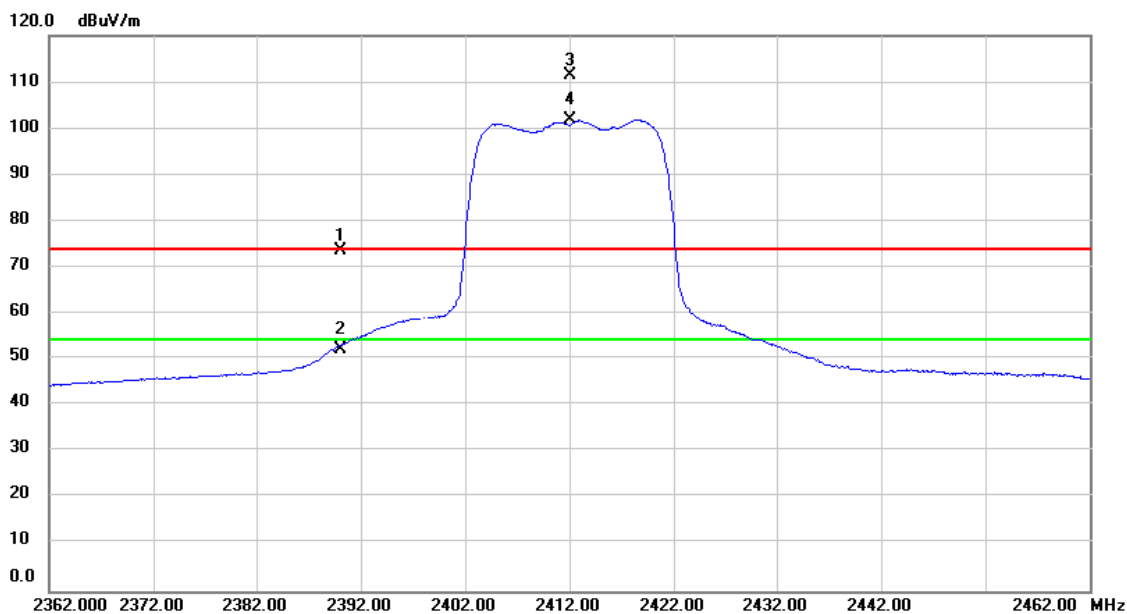
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	66.88	31.09	97.97	74.00	23.97	peak	No Limit
2	*	2462.000	57.48	31.09	88.57	54.00	34.57	AVG	No Limit
3		2483.500	28.72	31.17	59.89	74.00	-14.11	peak	
4		2483.500	9.72	31.17	40.89	54.00	-13.11	AVG	

Test Mode	TX G MODE _2462 MHz	Polarization	Horizontal
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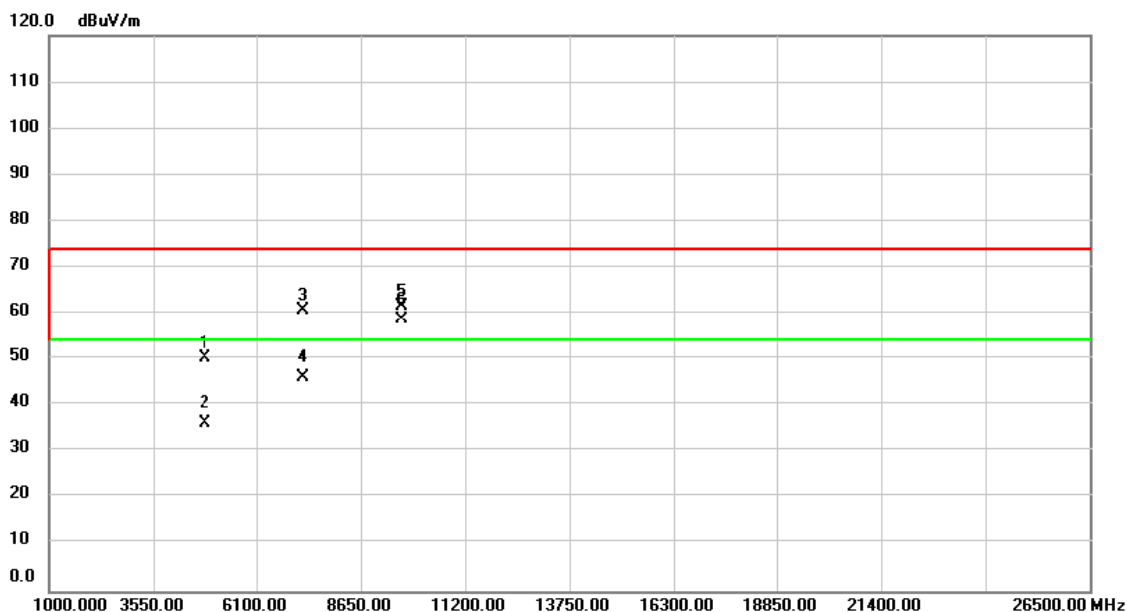
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	59.48	-11.37	48.11	74.00	-25.89	peak	
2		4924.000	46.62	-11.37	35.25	54.00	-18.75	AVG	
3		7386.000	59.23	-4.72	54.51	74.00	-19.49	peak	
4		7386.000	44.76	-4.72	40.04	54.00	-13.96	AVG	
5		9848.000	58.19	0.81	59.00	77.97	-18.97	peak	
6	*	9848.000	53.27	0.81	54.08	68.57	-14.49	AVG	

Test Mode	TX N (HT20) MODE 2412MHz	Polarization	Vertical
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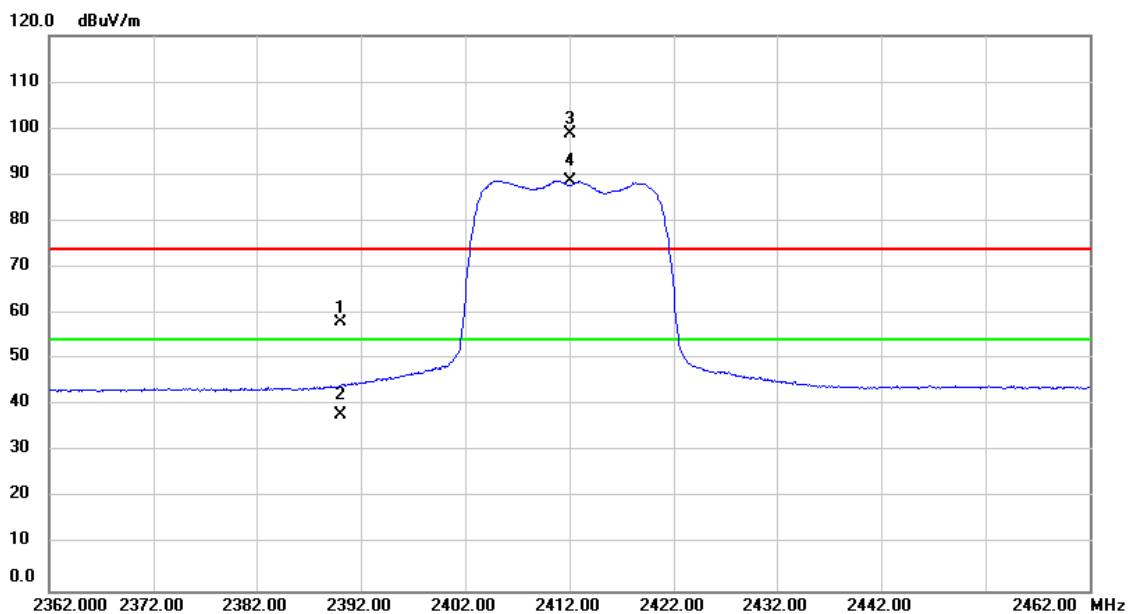
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	42.94	30.84	73.78	74.00	-0.22	peak	
2		2390.000	21.23	30.84	52.07	54.00	-1.93	AVG	
3	X	2412.000	80.56	30.92	111.48	74.00	37.48	peak	No Limit
4	*	2412.000	70.95	30.92	101.87	54.00	47.87	AVG	No Limit

Test Mode	TX N (HT20) MODE 2412MHz	Polarization	Vertical
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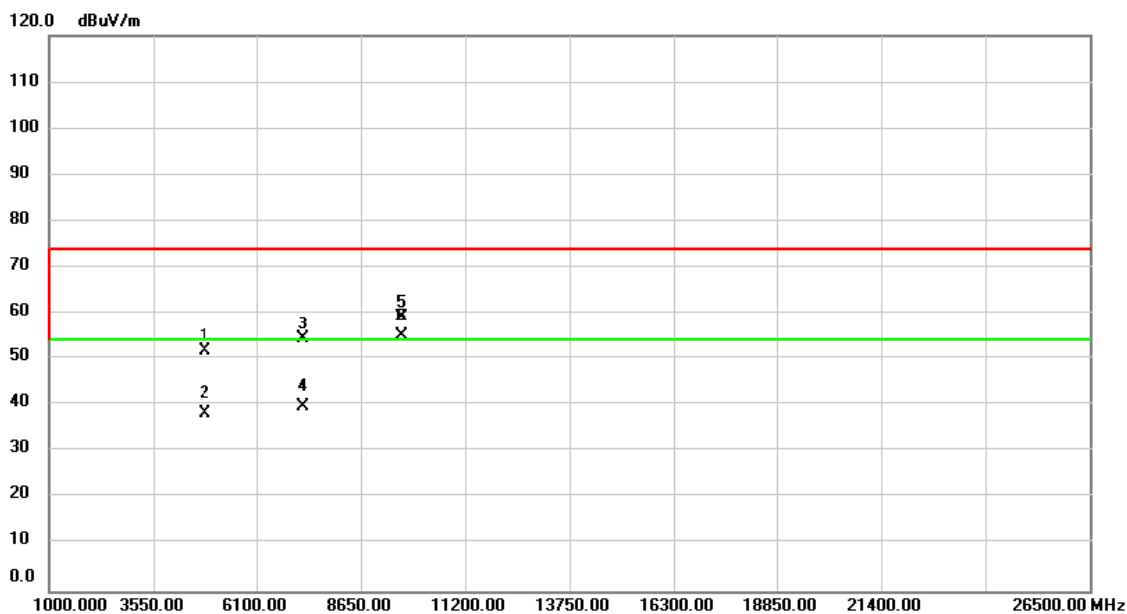
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	61.61	-11.48	50.13	74.00	-23.87	peak	
2		4824.000	47.56	-11.48	36.08	54.00	-17.92	AVG	
3		7236.000	65.91	-5.26	60.65	74.00	-13.35	peak	
4		7236.000	51.38	-5.26	46.12	54.00	-7.88	AVG	
5		9648.000	61.46	0.30	61.76	91.48	-29.72	peak	
6	*	9648.000	58.29	0.30	58.59	81.87	-23.28	AVG	

Test Mode	TX N (HT20) MODE 2412MHz	Polarization	Horizontal
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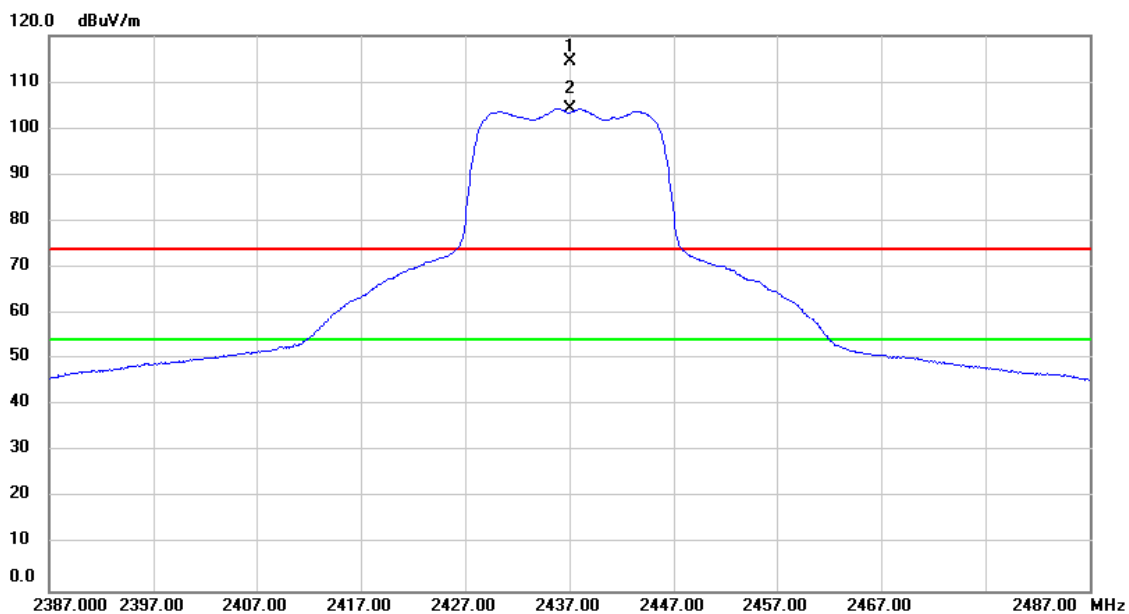
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	27.16	30.84	58.00	74.00	-16.00	peak	
2		2390.000	7.22	30.84	38.06	54.00	-15.94	AVG	
3	X	2412.000	67.91	30.92	98.83	74.00	24.83	peak	No Limit
4	*	2412.000	57.78	30.92	88.70	54.00	34.70	AVG	No Limit

Test Mode	TX N (HT20) MODE 2412MHz	Polarization	Horizontal
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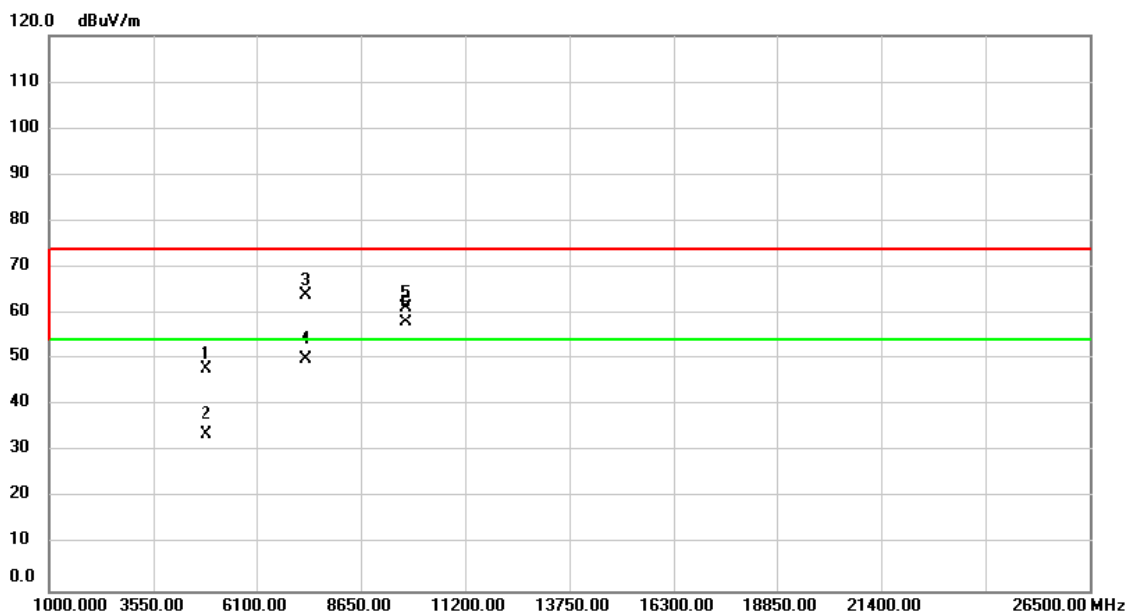
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	63.29	-11.48	51.81	74.00	-22.19	peak	
2		4824.000	49.71	-11.48	38.23	54.00	-15.77	AVG	
3		7236.000	59.57	-5.26	54.31	74.00	-19.69	peak	
4		7236.000	45.09	-5.26	39.83	54.00	-14.17	AVG	
5		9648.000	58.97	0.30	59.27	78.83	-19.56	peak	
6	*	9648.000	54.62	0.30	54.92	68.70	-13.78	AVG	

Test Mode	TX N (HT20) MODE 2437MHz	Polarization	Vertical
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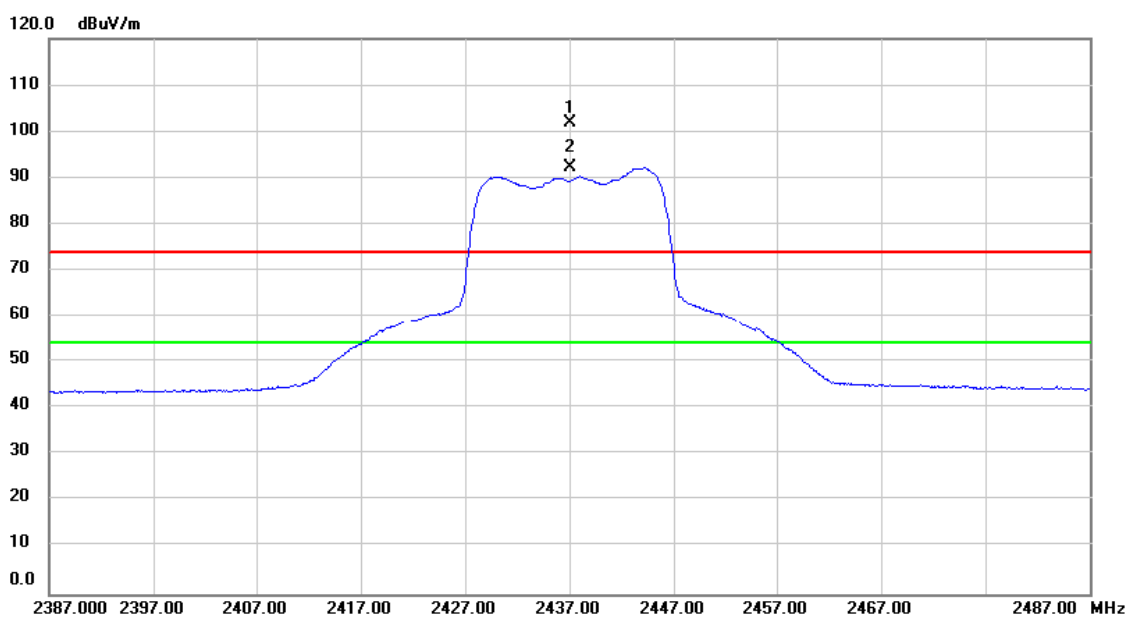
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	83.43	31.01	114.44	74.00	40.44	peak	No Limit
2	*	2437.000	73.24	31.01	104.25	54.00	50.25	AVG	No Limit

Test Mode	TX N (HT20) MODE 2437MHz	Polarization	Vertical
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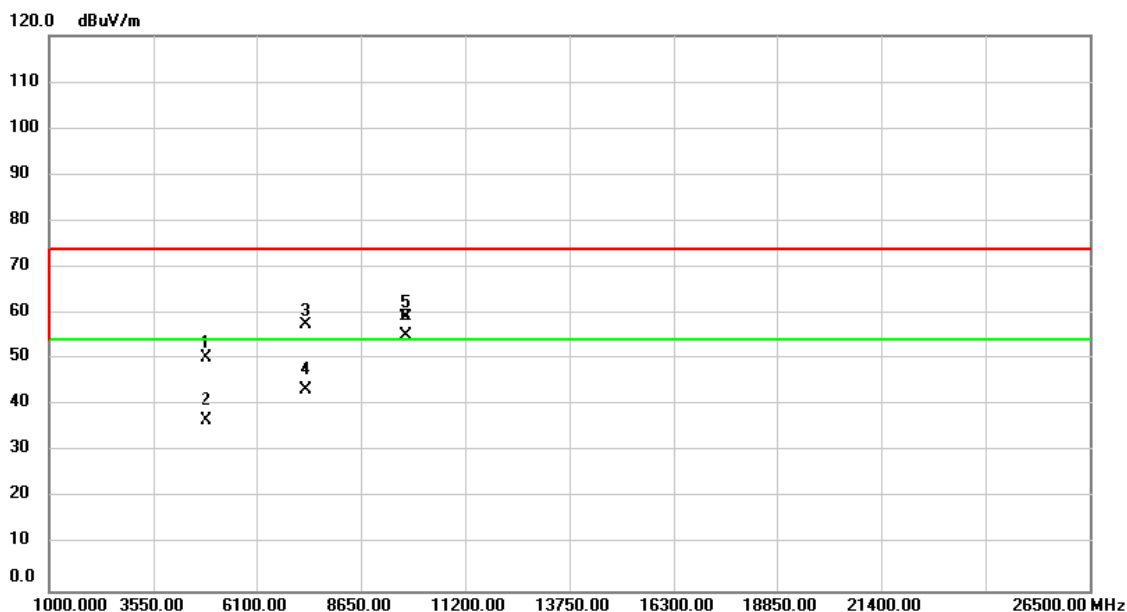
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	59.13	-11.42	47.71	74.00	-26.29	peak	
2		4874.000	45.11	-11.42	33.69	54.00	-20.31	AVG	
3		7311.000	69.04	-4.99	64.05	74.00	-9.95	peak	
4		7311.000	54.97	-4.99	49.98	54.00	-4.02	AVG	
5		9748.000	60.65	0.56	61.21	94.44	-33.23	peak	
6	*	9748.000	57.42	0.56	57.98	84.25	-26.27	AVG	

Test Mode	TX N (HT20) MODE 2437MHz	Polarization	Horizontal
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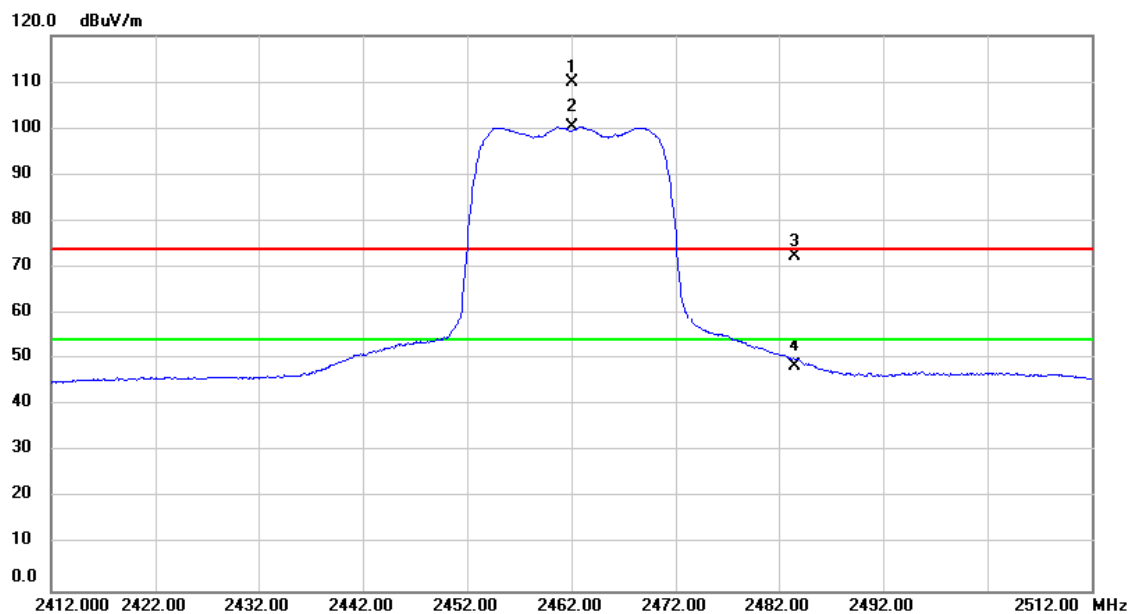
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.000	70.83	31.01	101.84	74.00	27.84	peak	No Limit
2	*	2437.000	61.18	31.01	92.19	54.00	38.19	AVG	No Limit

Test Mode	TX N (HT20) MODE 2437MHz	Polarization	Horizontal
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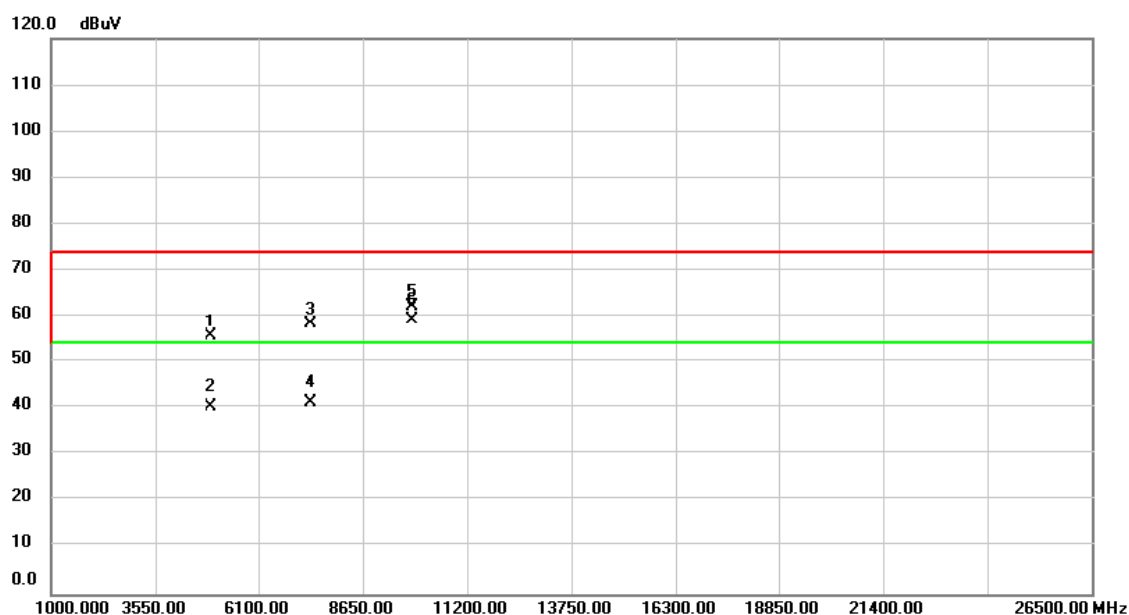
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	61.53	-11.42	50.11	74.00	-23.89	peak	
2		4874.000	48.07	-11.42	36.65	54.00	-17.35	AVG	
3		7311.000	62.54	-4.99	57.55	74.00	-16.45	peak	
4		7311.000	48.44	-4.99	43.45	54.00	-10.55	AVG	
5		9748.000	58.66	0.56	59.22	81.84	-22.62	peak	
6	*	9748.000	54.49	0.56	55.05	72.14	-17.09	AVG	

Test Mode	TX N (HT20) MODE 2462MHz	Polarization	Vertical
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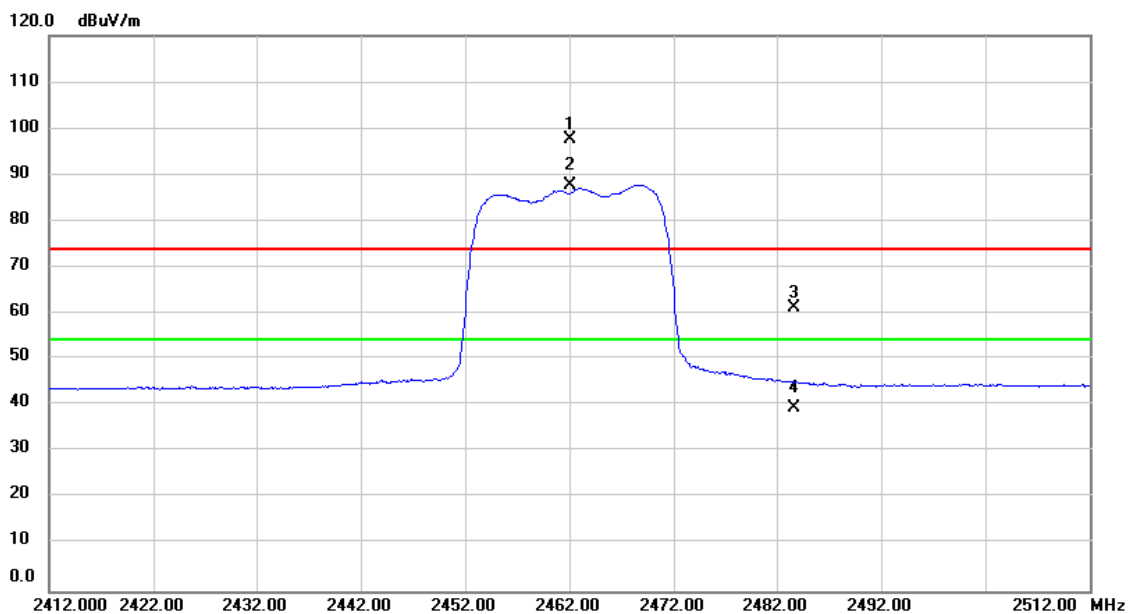
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	78.91	31.09	110.00	74.00	36.00	peak	No Limit
2	*	2462.000	69.24	31.09	100.33	54.00	46.33	AVG	No Limit
3		2483.533	41.21	31.17	72.38	74.00	-1.62	peak	
4		2483.533	17.25	31.17	48.42	54.00	-5.58	AVG	

Test Mode	TX N (HT20) MODE 2462MHz	Polarization	Vertical
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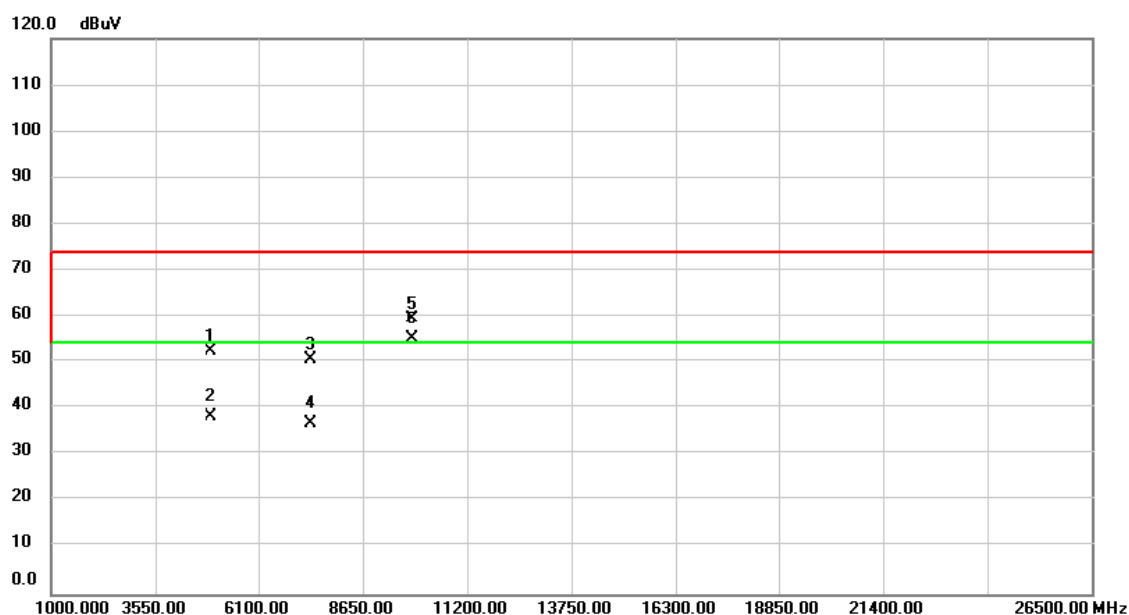
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		4924.000	67.05	-11.37	55.68	74.00	-18.32	peak	
2		4924.000	51.76	-11.37	40.39	54.00	-13.61	AVG	
3		7386.000	62.98	-4.72	58.26	74.00	-15.74	peak	
4		7386.000	45.87	-4.72	41.15	54.00	-12.85	AVG	
5		9848.000	61.47	0.81	62.28	90.00	-27.72	peak	
6	*	9848.000	58.40	0.81	59.21	80.33	-21.12	AVG	

Test Mode	TX N (HT20) MODE 2462MHz	Polarization	Horizontal
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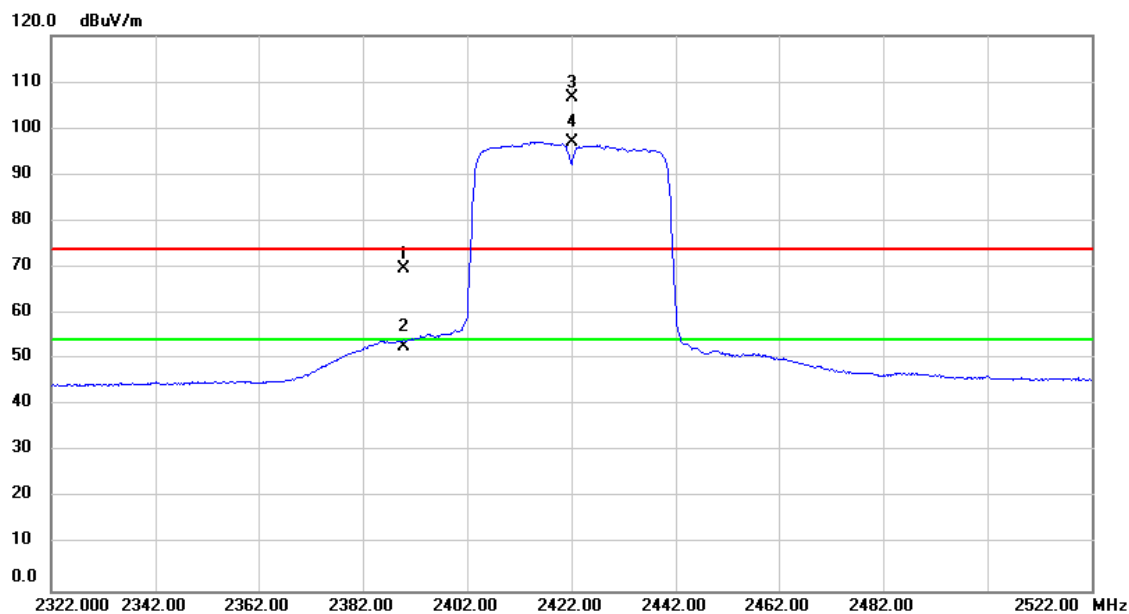
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.000	66.52	31.09	97.61	74.00	23.61	peak	No Limit
2	*	2462.000	56.77	31.09	87.86	54.00	33.86	AVG	No Limit
3		2483.648	30.27	31.17	61.44	74.00	-12.56	peak	
4		2483.648	8.21	31.17	39.38	54.00	-14.62	AVG	

Test Mode	TX N (HT20) MODE 2462MHz	Polarization	Horizontal
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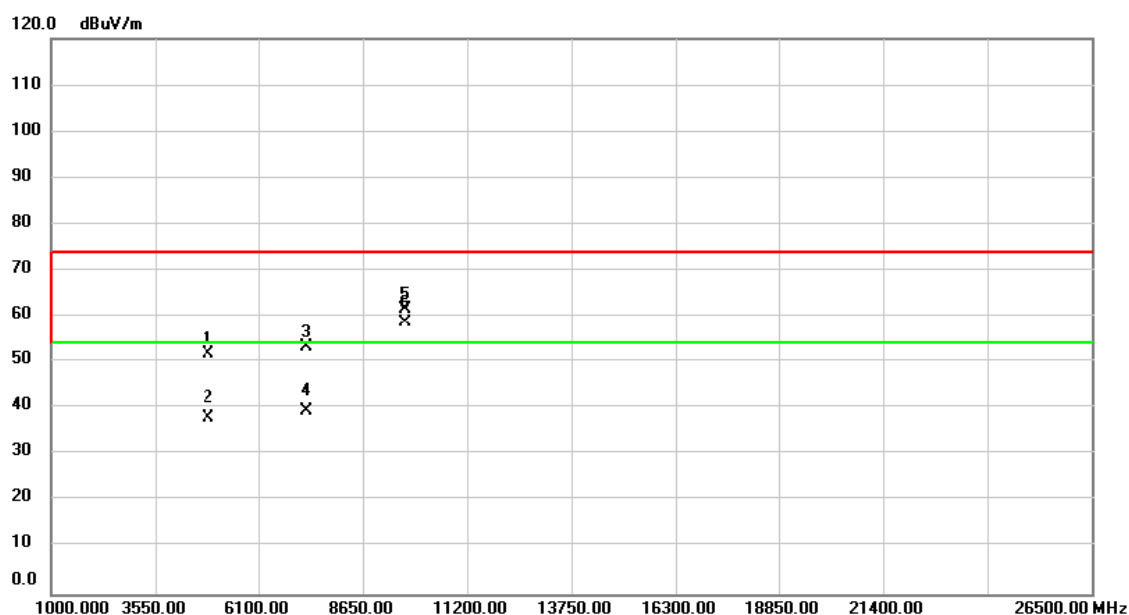
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		4924.000	63.62	-11.37	52.25	74.00	-21.75	peak	
2		4924.000	49.63	-11.37	38.26	54.00	-15.74	AVG	
3		7386.000	55.19	-4.72	50.47	74.00	-23.53	peak	
4		7386.000	41.48	-4.72	36.76	54.00	-17.24	AVG	
5		9848.000	58.80	0.81	59.61	77.61	-18.00	peak	
6	*	9848.000	54.31	0.81	55.12	67.86	-12.74	AVG	

Test Mode	TX N (HT40) MODE 2422MHz	Polarization	Vertical
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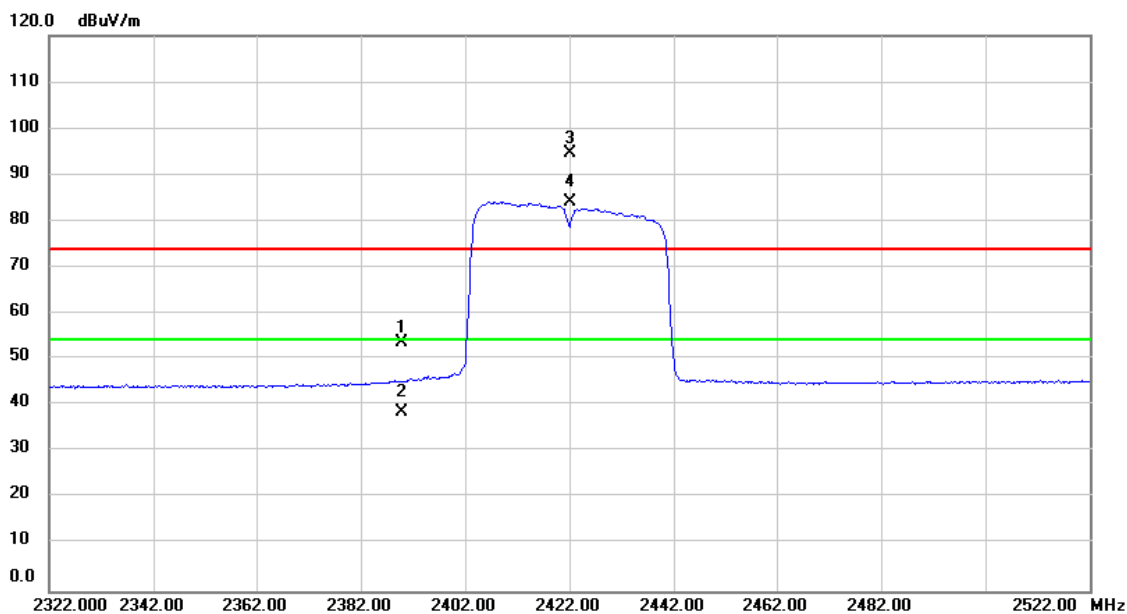
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.932	38.81	30.84	69.65	74.00	-4.35	peak	
2		2389.932	21.94	30.84	52.78	54.00	-1.22	AVG	
3	X	2422.000	75.66	30.96	106.62	74.00	32.62	peak	No Limit
4	*	2422.000	66.17	30.96	97.13	54.00	43.13	AVG	No Limit

Test Mode	TX N (HT40) MODE 2422MHz	Polarization	Vertical
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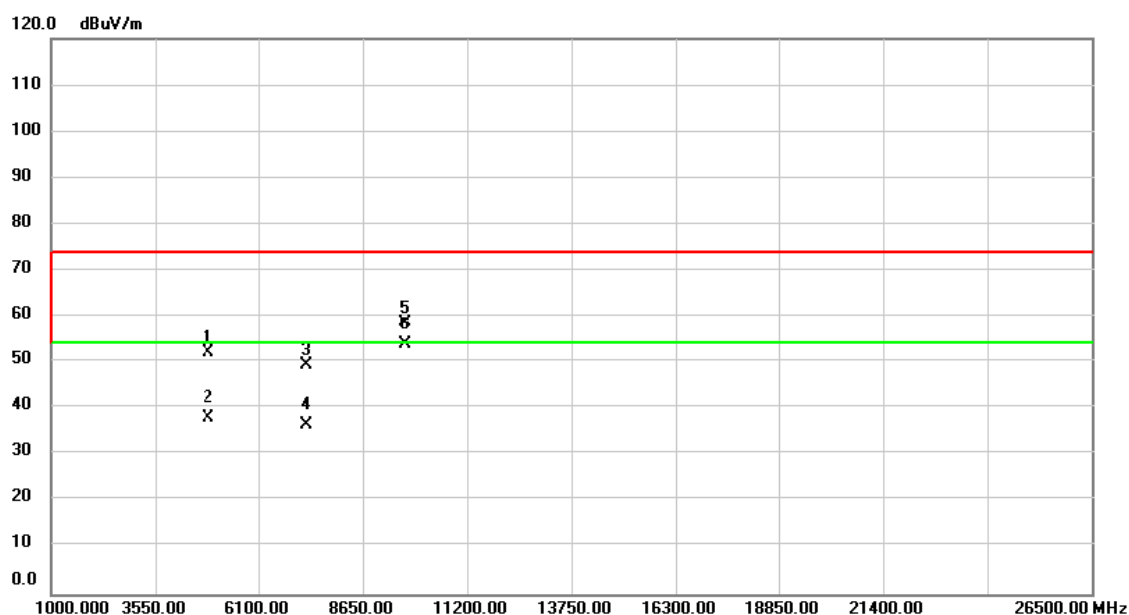
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	63.17	-11.46	51.71	74.00	-22.29	peak	
2		4844.000	49.43	-11.46	37.97	54.00	-16.03	AVG	
3		7266.000	58.34	-5.16	53.18	74.00	-20.82	peak	
4		7266.000	44.61	-5.16	39.45	54.00	-14.55	AVG	
5		9688.000	61.19	0.41	61.60	86.62	-25.02	peak	
6	*	9688.000	58.36	0.41	58.77	77.13	-18.36	AVG	

Test Mode	TX N (HT40) MODE 2422MHz	Polarization	Horizontal
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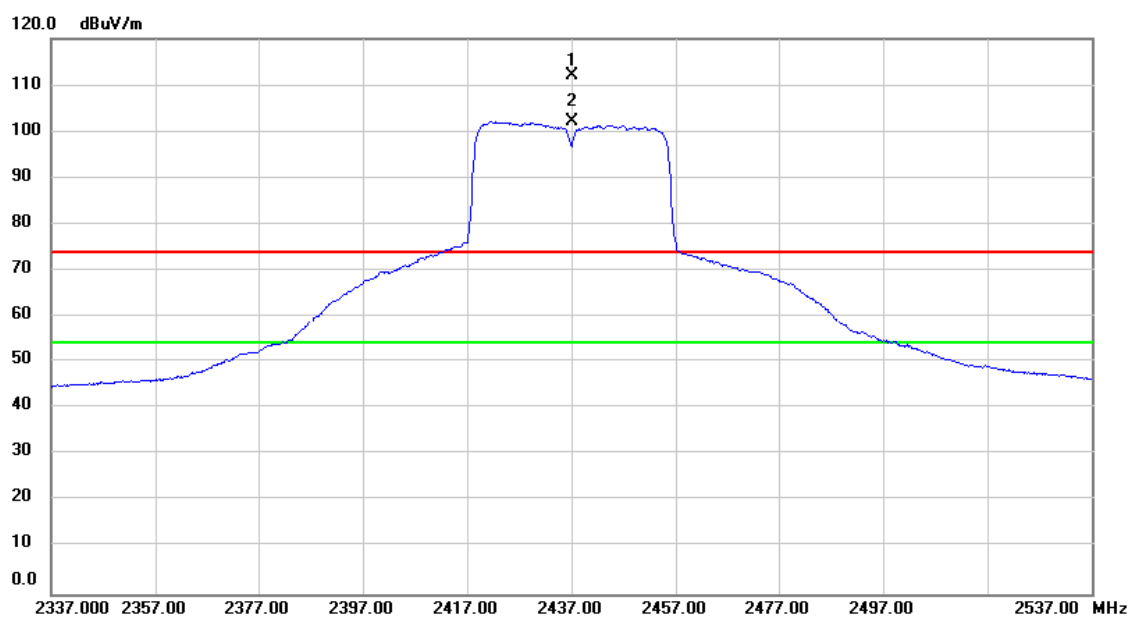
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.796	22.78	30.84	53.62	74.00	-20.38	peak	
2		2389.796	7.71	30.84	38.55	54.00	-15.45	AVG	
3	X	2422.000	63.62	30.96	94.58	74.00	20.58	peak	No Limit
4	*	2422.000	53.08	30.96	84.04	54.00	30.04	AVG	No Limit

Test Mode	TX N (HT40) MODE 2422MHz	Polarization	Horizontal
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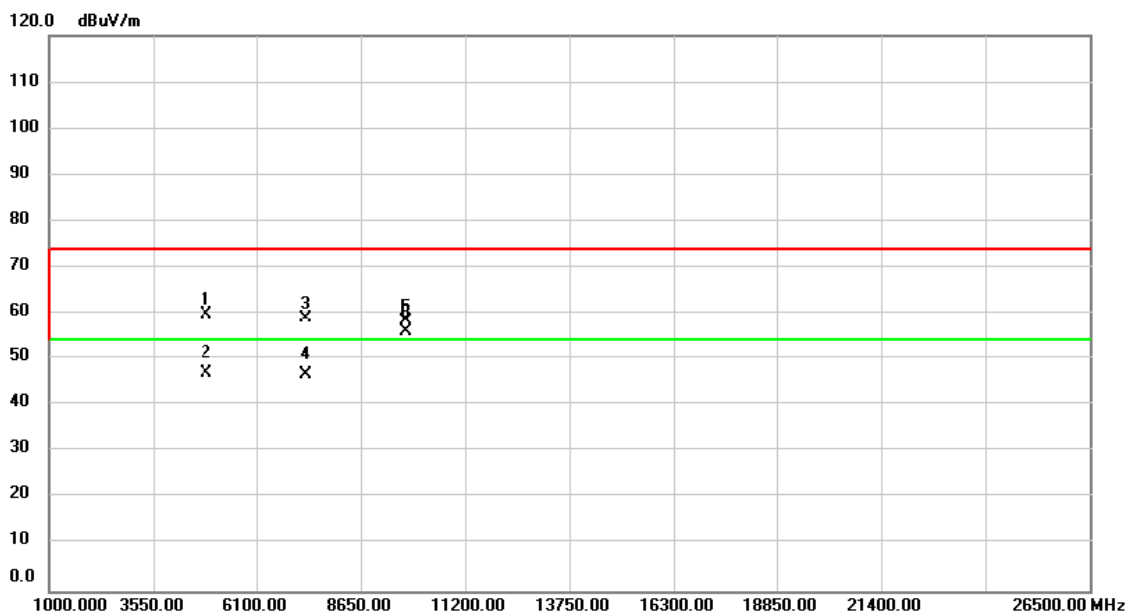
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	63.43	-11.46	51.97	74.00	-22.03	peak	
2		4844.000	49.43	-11.46	37.97	54.00	-16.03	AVG	
3		7266.000	54.65	-5.16	49.49	74.00	-24.51	peak	
4		7266.000	41.65	-5.16	36.49	54.00	-17.51	AVG	
5		9688.000	58.35	0.41	58.76	74.58	-15.82	peak	
6	*	9688.000	53.53	0.41	53.94	64.04	-10.10	AVG	

Test Mode	TX N (HT40) MODE 2437MHz	Polarization	Vertical
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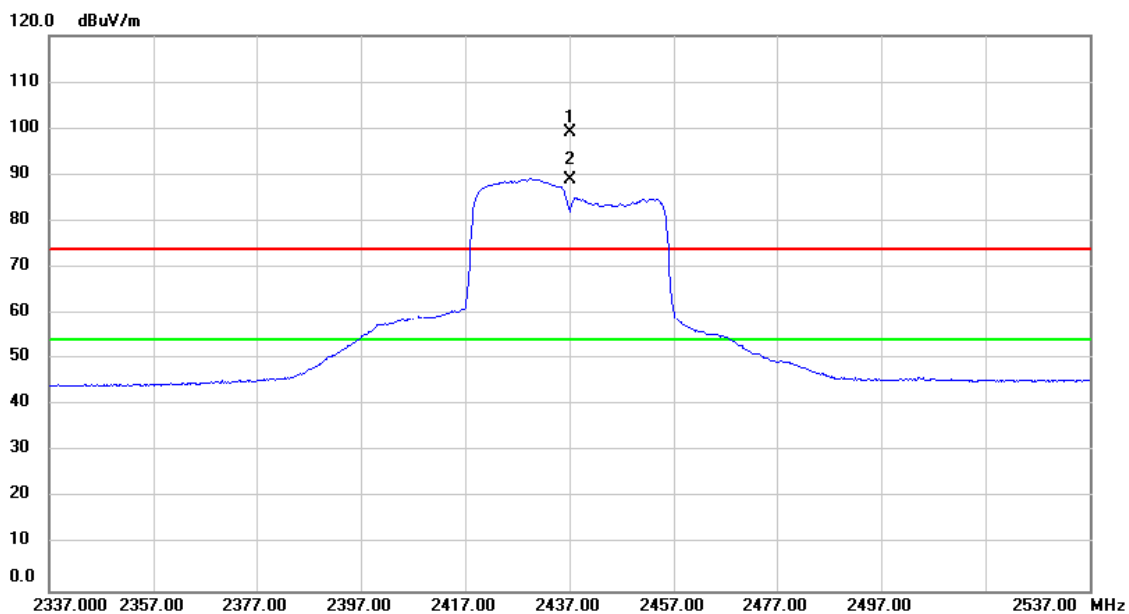
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	81.09	31.01	112.10	74.00	38.10	peak	No Limit
2	*	2437.000	71.06	31.01	102.07	54.00	48.07	AVG	No Limit

Test Mode	TX N (HT40) MODE 2437MHz	Polarization	Vertical
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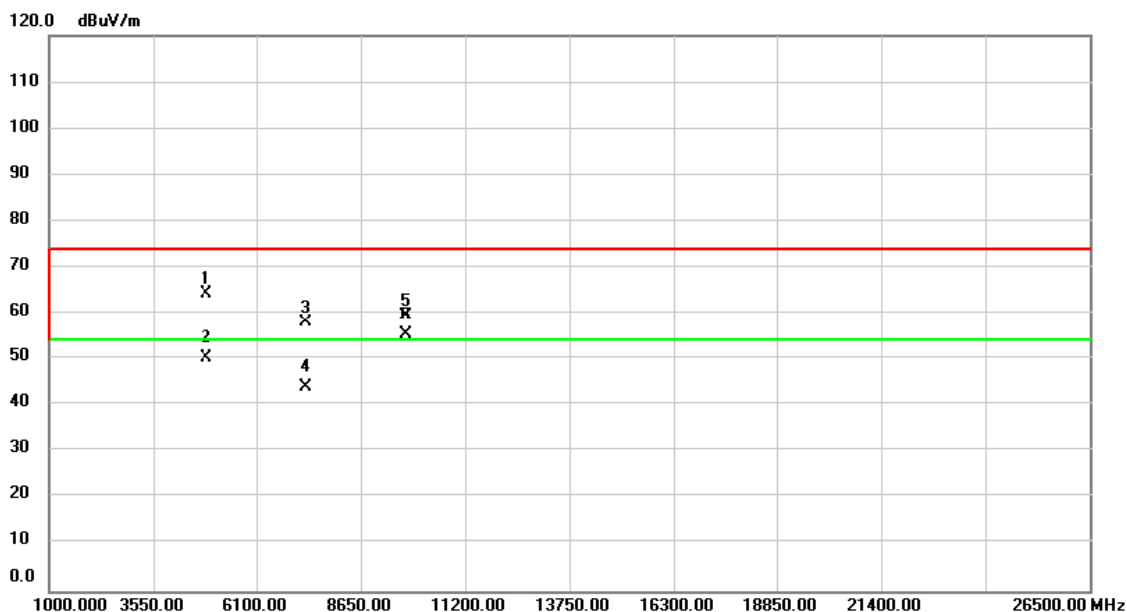
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	71.39	-11.42	59.97	74.00	-14.03	peak	
2		4874.000	58.45	-11.42	47.03	54.00	-6.97	AVG	
3		7311.000	63.91	-4.99	58.92	74.00	-15.08	peak	
4		7311.000	51.52	-4.99	46.53	54.00	-7.47	AVG	
5		9748.000	57.91	0.56	58.47	92.10	-33.63	peak	
6	*	9748.000	55.40	0.56	55.96	82.07	-26.11	AVG	

Test Mode	TX N (HT40) MODE 2437MHz	Polarization	Horizontal
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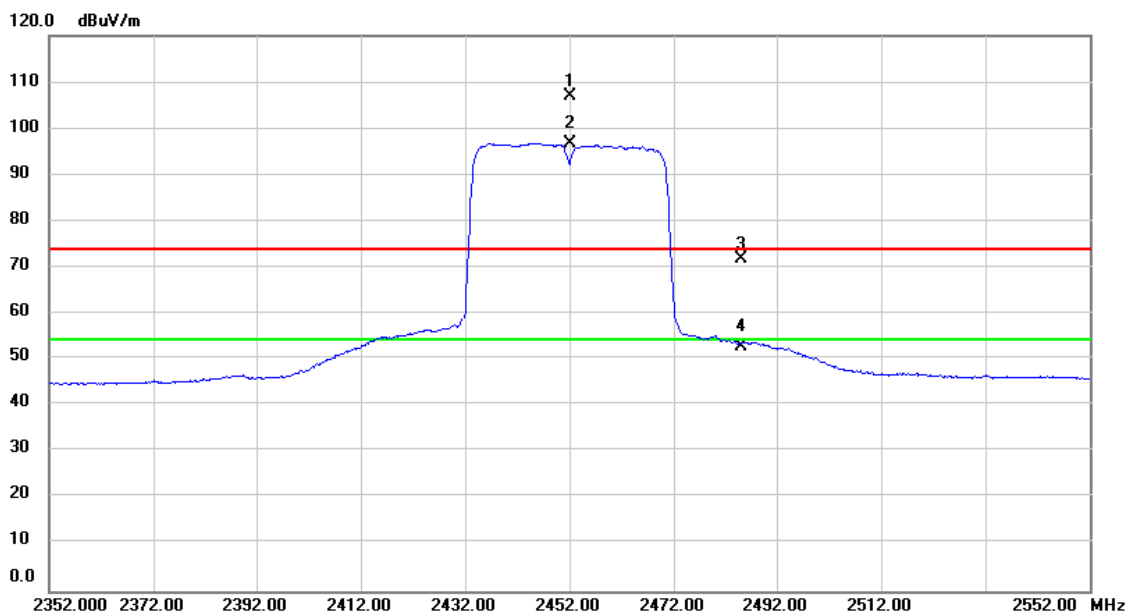
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2437.000	68.05	31.01	99.06	74.00	25.06	peak	No Limit
2	*	2437.000	58.08	31.01	89.09	54.00	35.09	AVG	No Limit

Test Mode	TX N (HT40) MODE 2437MHz	Polarization	Horizontal
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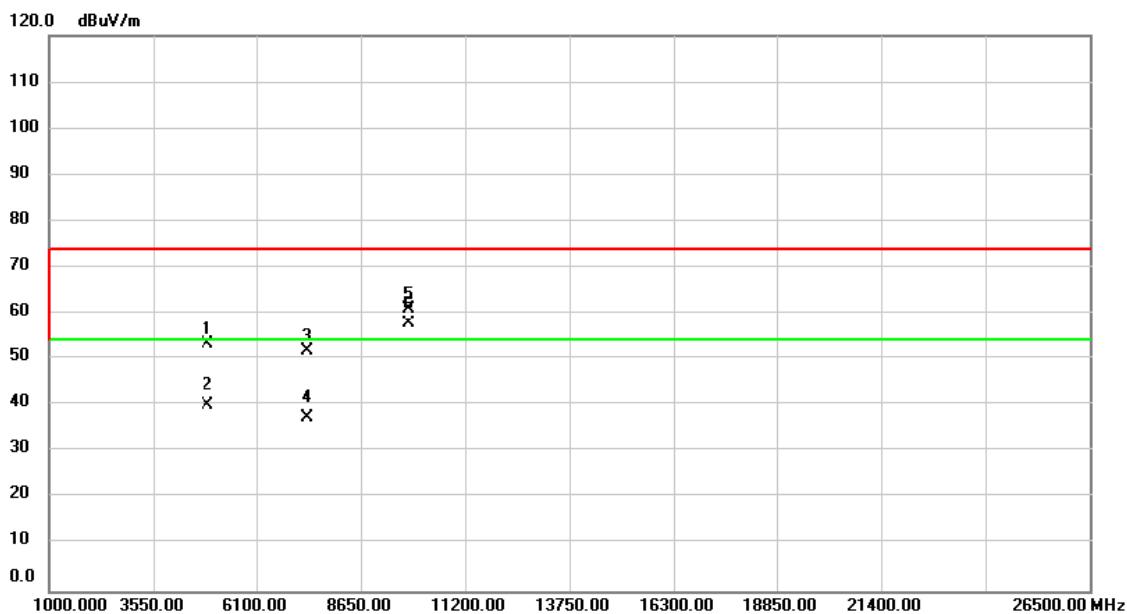
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	75.71	-11.42	64.29	74.00	-9.71	peak	
2		4874.000	61.73	-11.42	50.31	54.00	-3.69	AVG	
3		7311.000	62.97	-4.99	57.98	74.00	-16.02	peak	
4		7311.000	49.00	-4.99	44.01	54.00	-9.99	AVG	
5		9748.000	59.07	0.56	59.63	79.06	-19.43	peak	
6	*	9748.000	54.87	0.56	55.43	69.09	-13.66	AVG	

Test Mode	TX N (HT40) MODE 2452MHz	Polarization	Vertical
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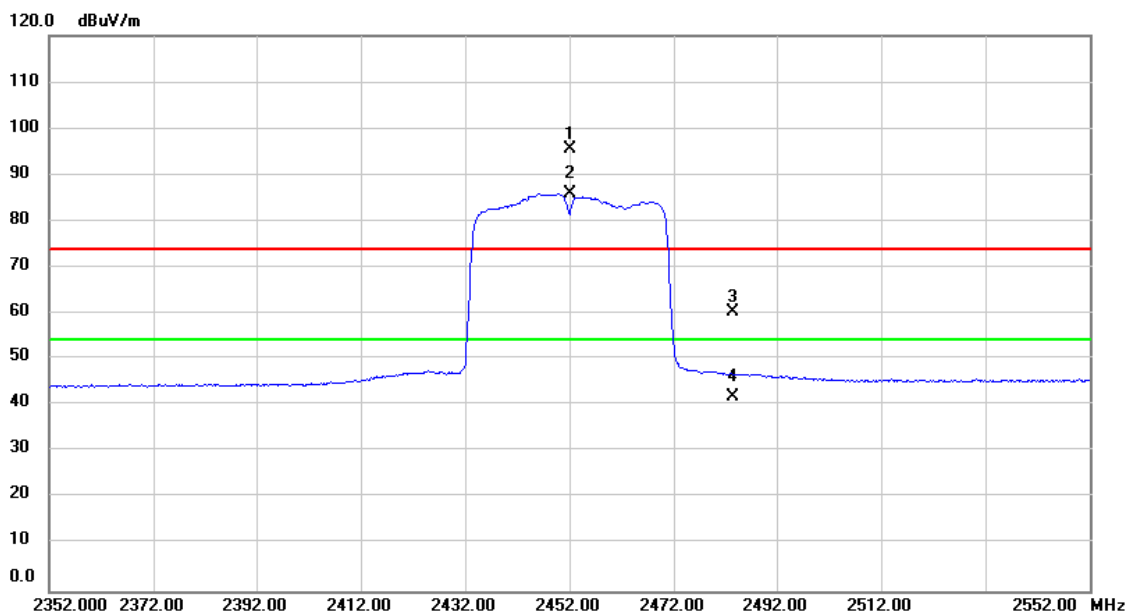
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2452.000	75.81	31.07	106.88	74.00	32.88	peak	No Limit
2	*	2452.000	65.79	31.07	96.86	54.00	42.86	AVG	No Limit
3		2485.298	40.60	31.18	71.78	74.00	-2.22	peak	
4		2485.298	21.38	31.18	52.56	54.00	-1.44	AVG	

Test Mode	TX N (HT40) MODE 2452MHz	Polarization	Vertical
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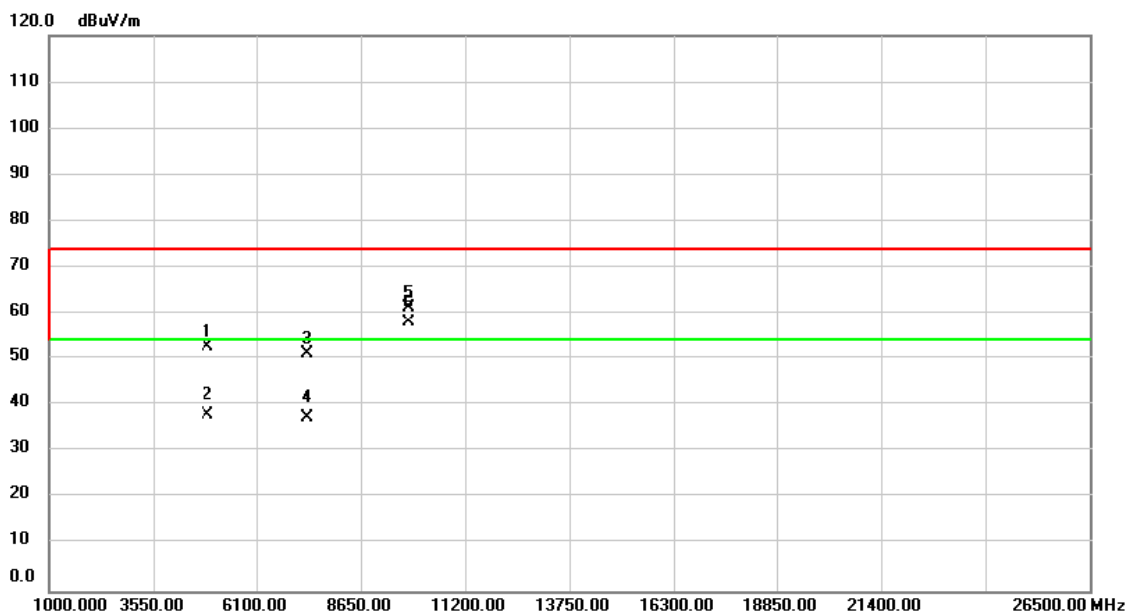
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	64.79	-11.39	53.40	74.00	-20.60	peak	
2		4904.000	51.38	-11.39	39.99	54.00	-14.01	AVG	
3		7356.000	56.51	-4.84	51.67	74.00	-22.33	peak	
4		7356.000	42.04	-4.84	37.20	54.00	-16.80	AVG	
5		9808.000	60.48	0.70	61.18	86.88	-25.70	peak	
6	*	9808.000	57.19	0.70	57.89	76.86	-18.97	AVG	

Test Mode	TX N (HT40) MODE 2452MHz	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2452.000	64.46	31.07	95.53	74.00	21.53	peak	No Limit
2	*	2452.000	54.83	31.07	85.90	54.00	31.90	AVG	No Limit
3		2483.599	29.41	31.17	60.58	74.00	-13.42	peak	
4		2483.599	10.77	31.17	41.94	54.00	-12.06	AVG	

Test Mode	TX N (HT40) MODE 2452MHz	Polarization	Horizontal
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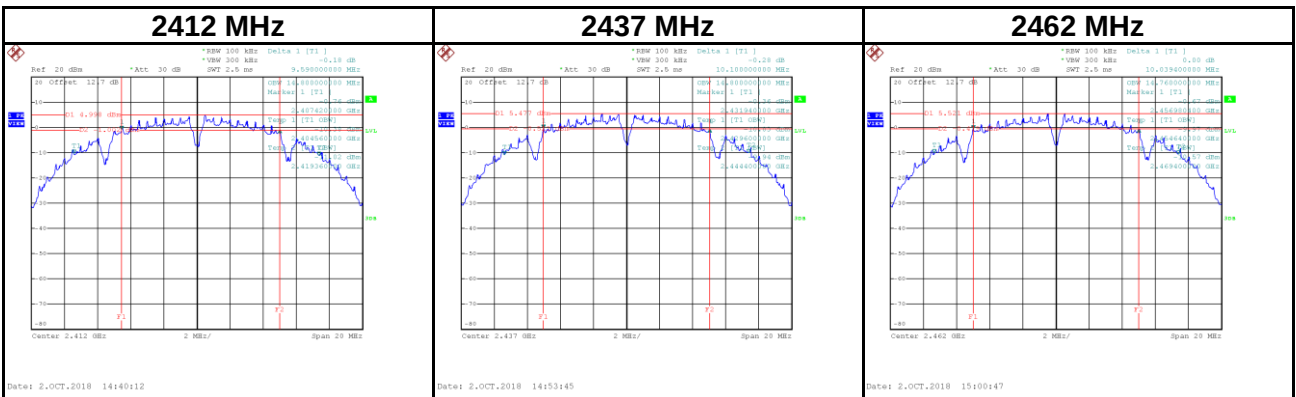
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	63.95	-11.39	52.56	74.00	-21.44	peak	
2		4904.000	49.33	-11.39	37.94	54.00	-16.06	AVG	
3		7356.000	56.04	-4.84	51.20	74.00	-22.80	peak	
4		7356.000	42.06	-4.84	37.22	54.00	-16.78	AVG	
5		9808.000	60.50	0.70	61.20	75.53	-14.33	peak	
6	*	9808.000	57.26	0.70	57.96	65.90	-7.94	AVG	

APPENDIX E BANDWIDTH

CONTINUE ON NEXT PAGE

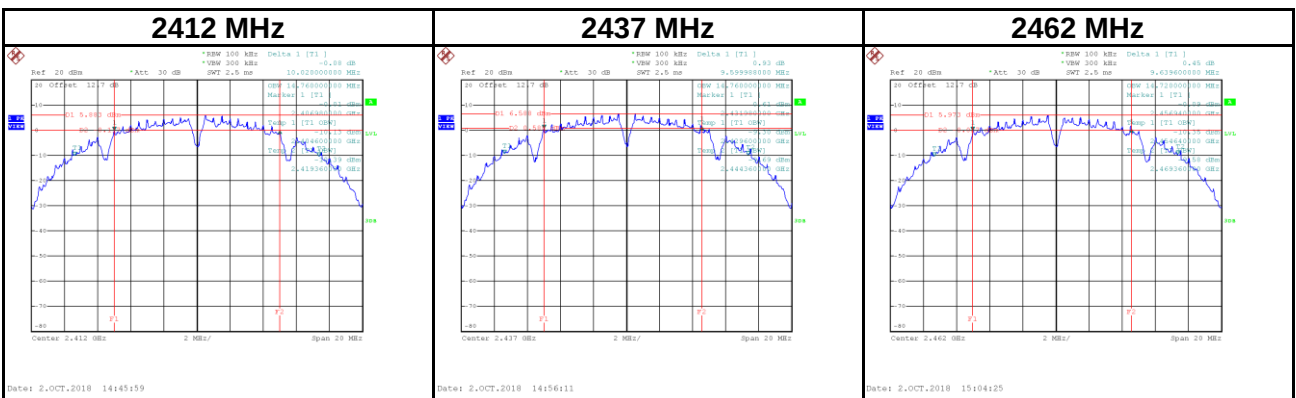
Test Mode IEEE 802.11b_ANT 1

Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (kHz)	Result
2412	9.59	14.80	500	Complies
2437	10.10	14.80	500	Complies
2462	10.04	14.76	500	Complies



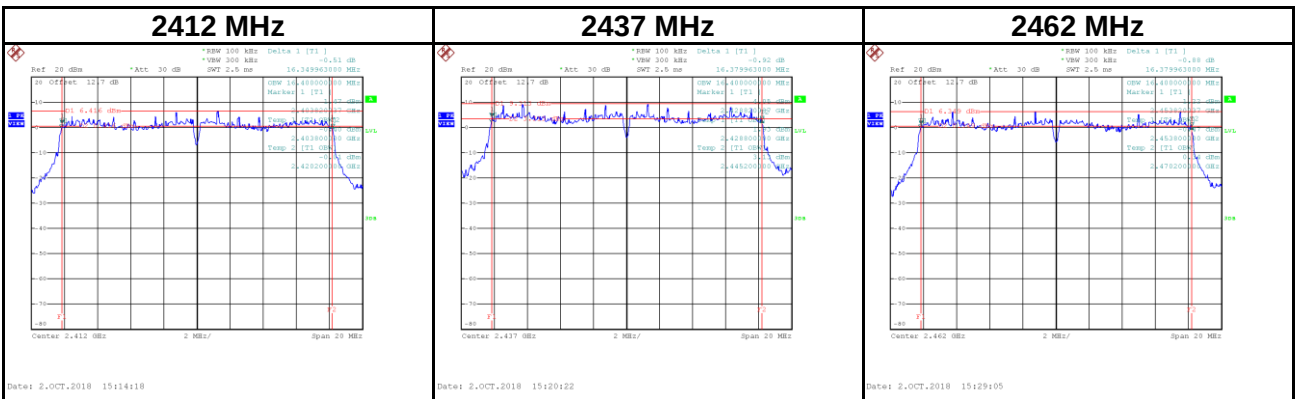
Test Mode IEEE 802.11b_ANT 2

Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (kHz)	Result
2412	10.02	14.76	500	Complies
2437	9.60	14.76	500	Complies
2462	9.64	14.72	500	Complies



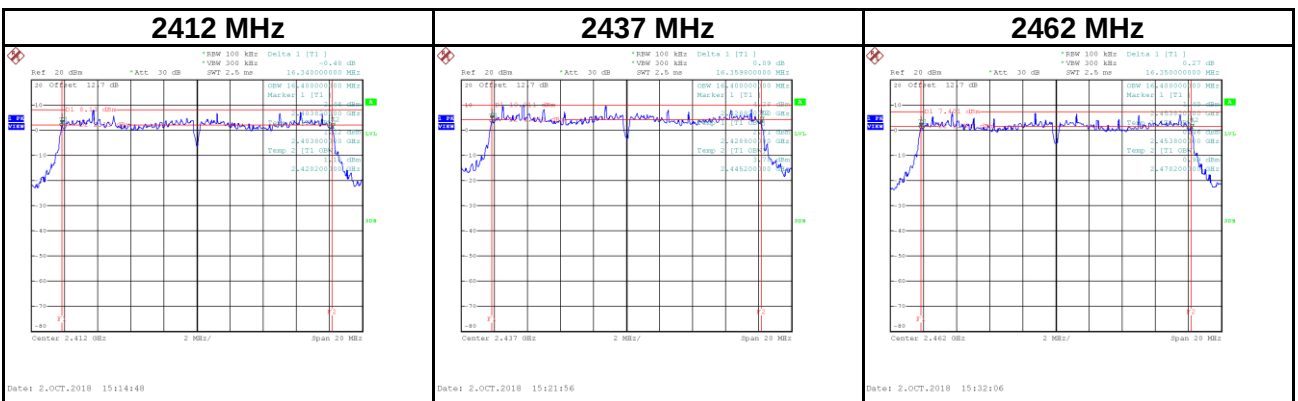
Test Mode IEEE 802.11g_ANT 1

Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (kHz)	Result
2412	16.35	16.40	500	Complies
2437	16.38	16.40	500	Complies
2462	16.38	16.40	500	Complies



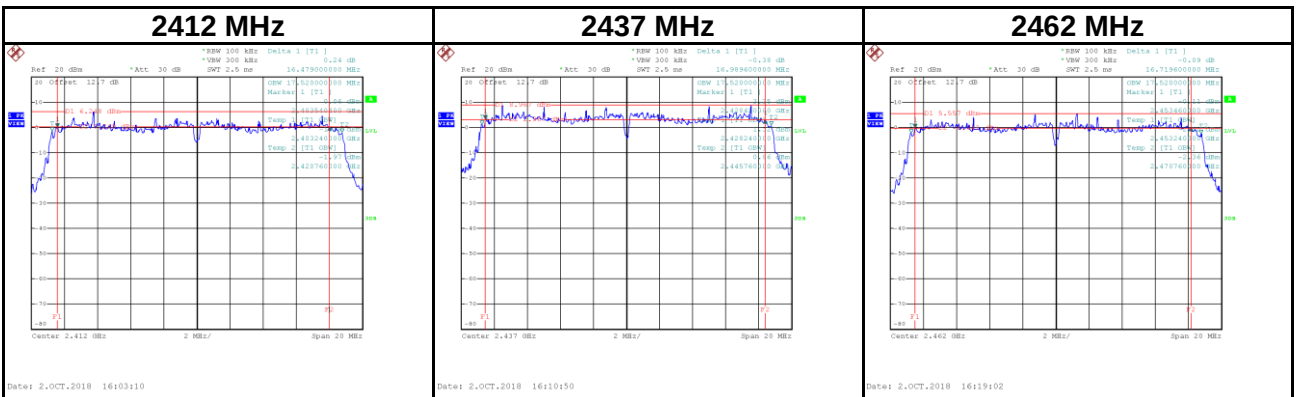
Test Mode IEEE 802.11g_ANT 2

Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (kHz)	Result
2412	16.34	16.40	500	Complies
2437	16.36	16.40	500	Complies
2462	16.35	16.40	500	Complies



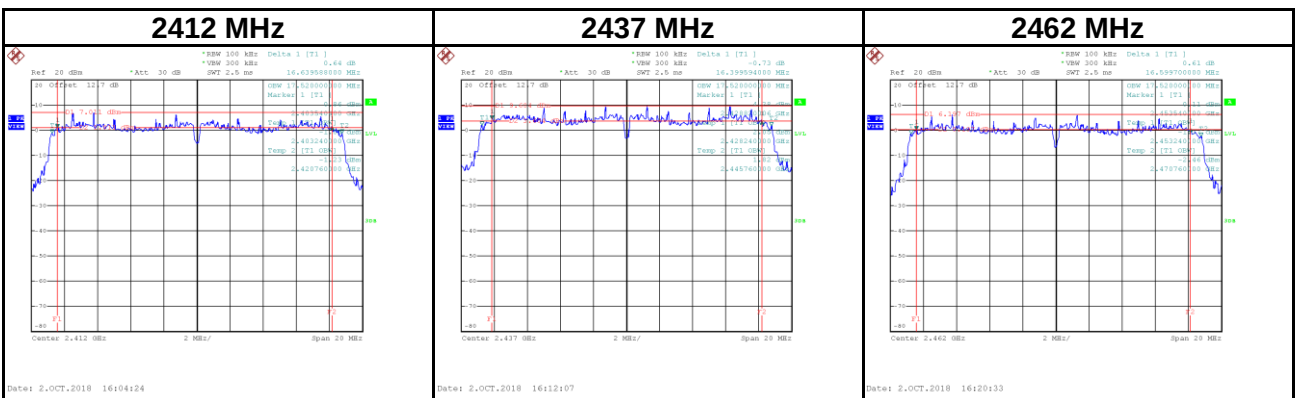
Test Mode IEEE 802.11n (HT20)_ANT 1

Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (kHz)	Result
2412	16.48	17.52	500	Complies
2437	16.99	17.52	500	Complies
2462	16.72	17.52	500	Complies



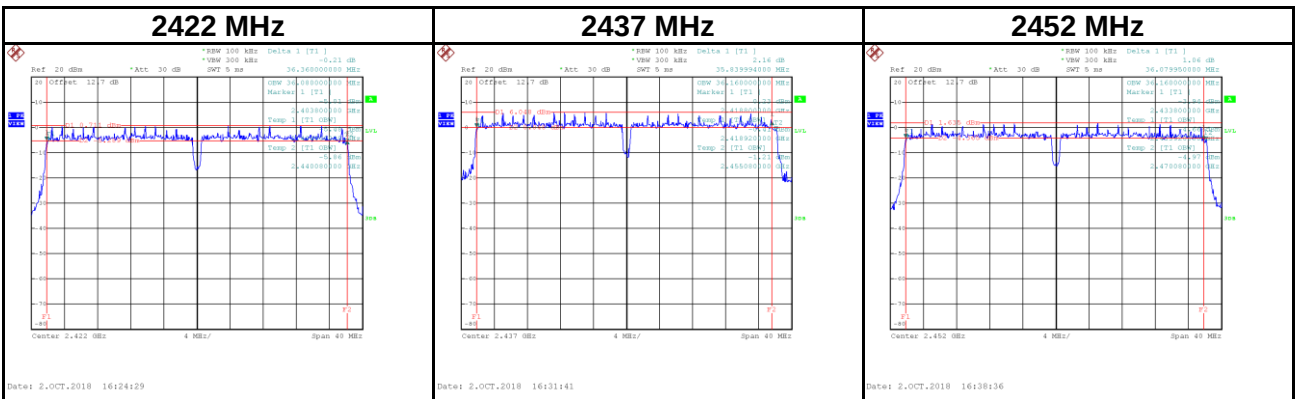
Test Mode IEEE 802.11n (HT20)_ANT 2

Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (kHz)	Result
2412	16.64	17.52	500	Complies
2437	16.40	17.52	500	Complies
2462	16.60	17.52	500	Complies



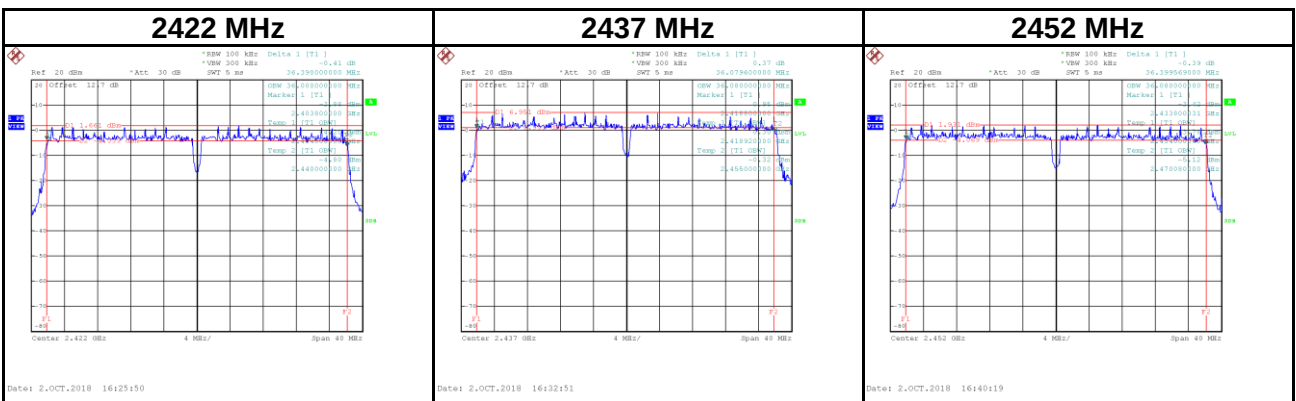
Test Mode IEEE 802.11n (HT40)_ANT 1

Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (kHz)	Result
2422	36.36	36.08	500	Complies
2437	35.84	36.16	500	Complies
2452	36.08	36.16	500	Complies



Test Mode IEEE 802.11n (HT40)_ANT 2

Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (kHz)	Result
2422	36.39	36.00	500	Complies
2437	36.08	36.08	500	Complies
2452	36.40	36.08	500	Complies



APPENDIX F PEAK OUTPUT POWER

CONTINUE ON NEXT PAGE

Test Mode	IEEE 802.11b_ANT 1
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	17.36	0.0545	30.00	1.0000	Complies
2437	17.96	0.0625	30.00	1.0000	Complies
2462	17.54	0.0568	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_ANT 2
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	18.26	0.0670	30.00	1.0000	Complies
2437	18.67	0.0736	30.00	1.0000	Complies
2462	18.06	0.0640	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_Total
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.84	0.1214	30.00	1.0000	Complies
2437	21.34	0.1361	30.00	1.0000	Complies
2462	20.82	0.1207	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_ANT 1
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	24.88	0.3076	30.00	1.0000	Complies
2437	25.09	0.3228	30.00	1.0000	Complies
2462	24.77	0.2999	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_ANT 2
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	25.62	0.3648	30.00	1.0000	Complies
2437	25.16	0.3281	30.00	1.0000	Complies
2462	25.14	0.3266	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Total
-----------	--------------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	28.28	0.6724	30.00	1.0000	Complies
2437	28.14	0.6509	30.00	1.0000	Complies
2462	27.97	0.6265	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_ANT 1
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	24.84	0.3048	30.00	1.0000	Complies
2437	25.17	0.3289	30.00	1.0000	Complies
2462	24.39	0.2748	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_ANT 2
-----------	---------------------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	25.36	0.3436	30.00	1.0000	Complies
2437	25.09	0.3228	30.00	1.0000	Complies
2462	24.63	0.2904	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_Total
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	28.12	0.6483	30.00	1.0000	Complies
2437	28.14	0.6517	30.00	1.0000	Complies
2462	27.52	0.5652	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_ANT 1
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	23.69	0.2339	30.00	1.0000	Complies
2437	25.11	0.3243	30.00	1.0000	Complies
2452	24.32	0.2704	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_ANT 2
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	24.36	0.2729	30.00	1.0000	Complies
2437	25.00	0.3162	30.00	1.0000	Complies
2452	24.41	0.2761	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_Total
-----------	---------------------------

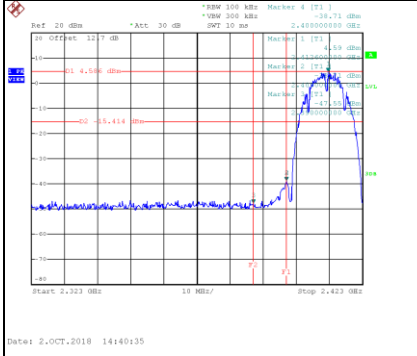
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	27.05	0.5068	30.00	1.0000	Complies
2437	28.07	0.6406	30.00	1.0000	Complies
2452	27.38	0.5465	30.00	1.0000	Complies

APPENDIX G ANTENNA CONDUCTED SPURIOUS EMISSIONS

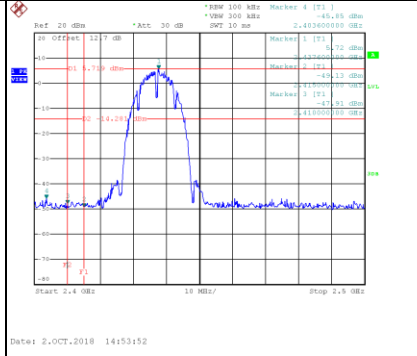
CONTINUE ON NEXT PAGE

Test Mode IEEE 802.11b_ANT 1

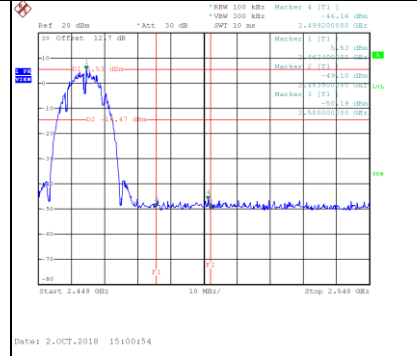
Bandedge-2412 MHz



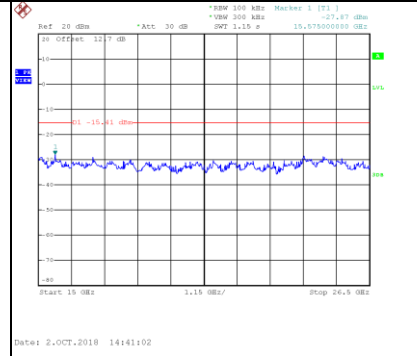
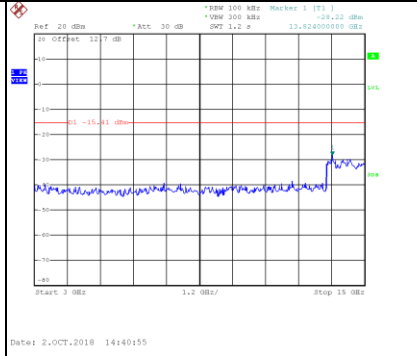
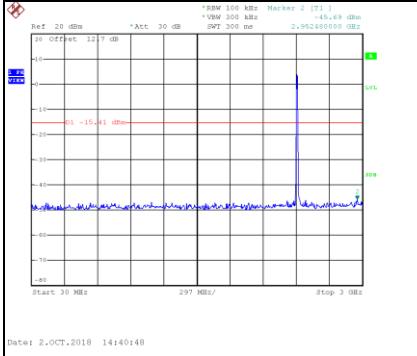
Bandedge-2437 MHz



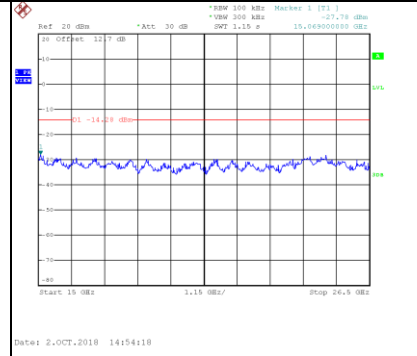
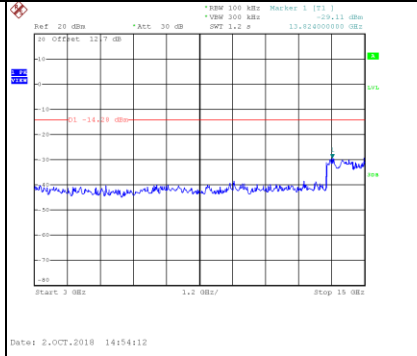
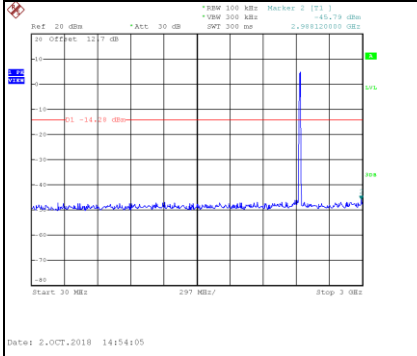
Bandedge-2462 MHz



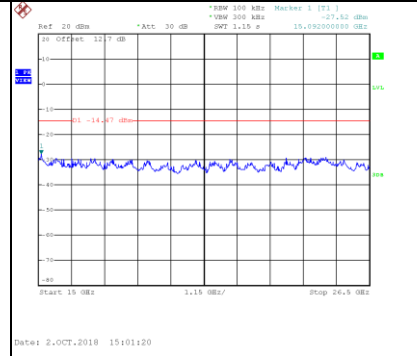
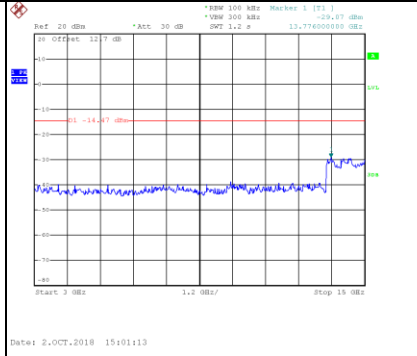
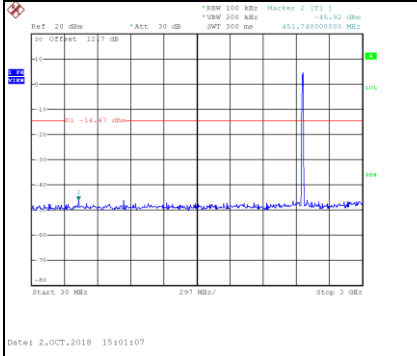
2412 MHz – 10 Harmonics



2437 MHz – 10 Harmonics

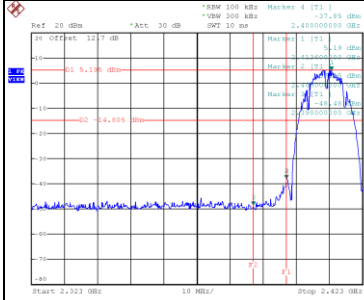


2462 MHz – 10 Harmonics



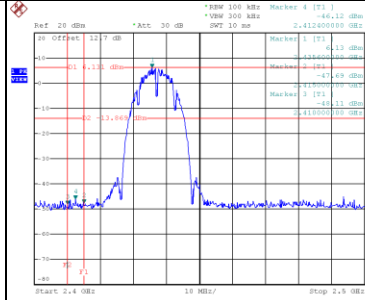
Test Mode IEEE 802.11b_ANT 2

Bandedge-2412 MHz



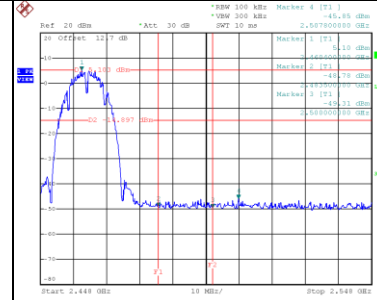
Date: 2.OCT.2018 14:46:23

Bandedge-2437 MHz



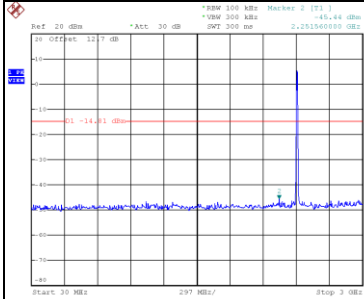
Date: 2.OCT.2018 14:56:18

Bandedge-2462 MHz

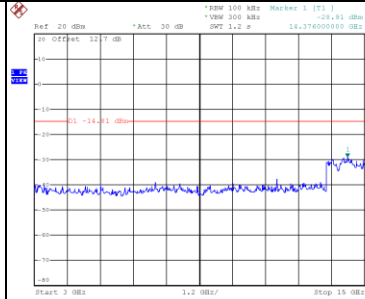


Date: 2.OCT.2018 15:04:32

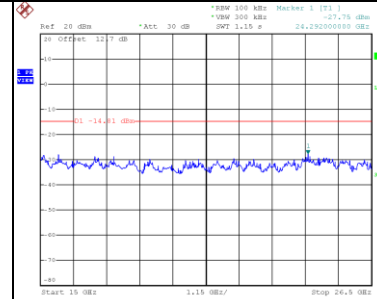
2412 MHz – 10 Harmonics



Date: 2.OCT.2018 14:46:35

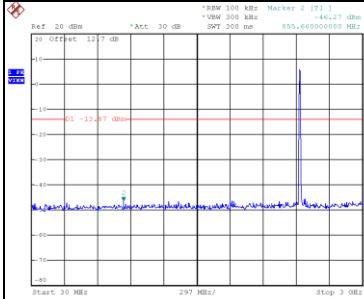


Date: 2.OCT.2018 14:56:42

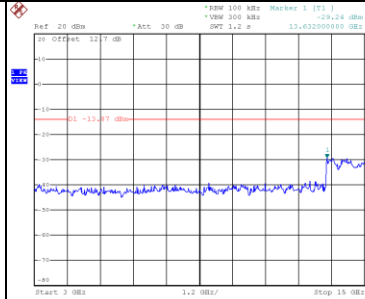


Date: 2.OCT.2018 14:56:49

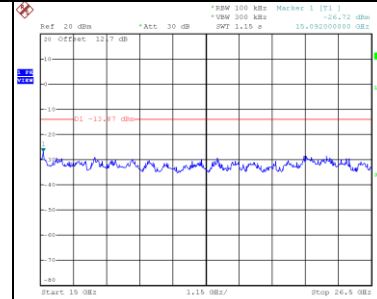
2437 MHz – 10 Harmonics



Date: 2.OCT.2018 14:56:31

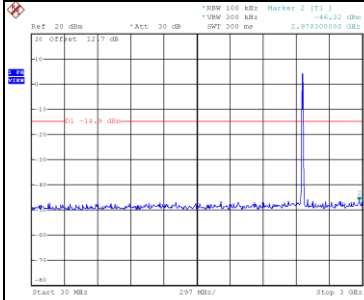


Date: 2.OCT.2018 14:56:38

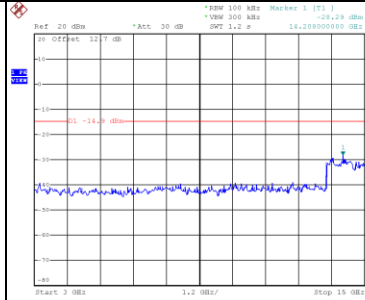


Date: 2.OCT.2018 14:56:44

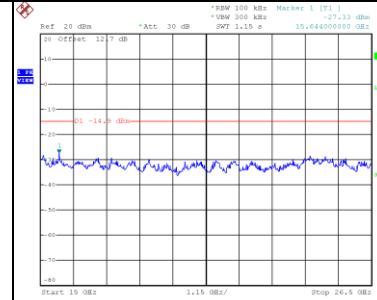
2462 MHz – 10 Harmonics



Date: 2.OCT.2018 15:04:44



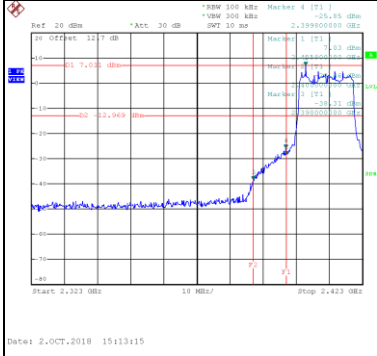
Date: 2.OCT.2018 15:04:51



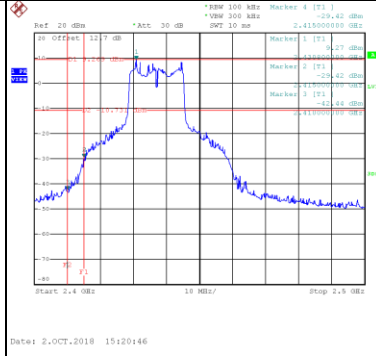
Date: 2.OCT.2018 15:04:58

Test Mode IEEE 802.11g_ANT 1

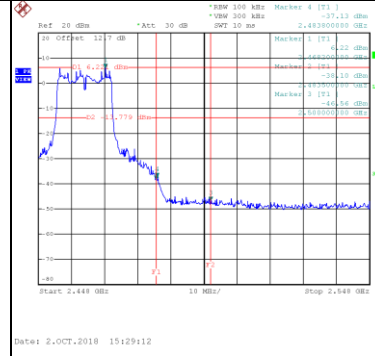
Bandedge-2412 MHz



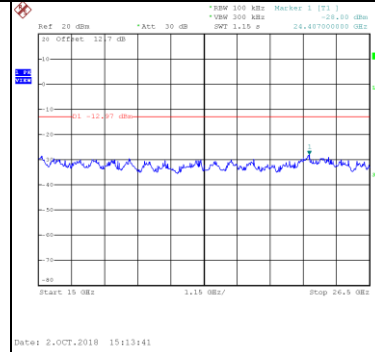
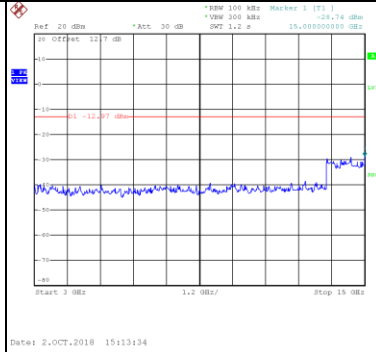
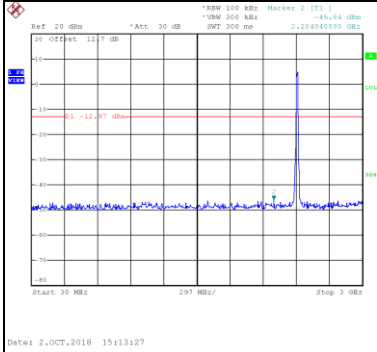
Bandedge-2437 MHz



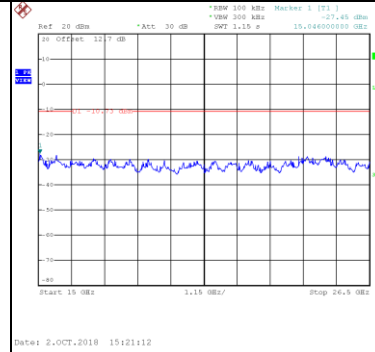
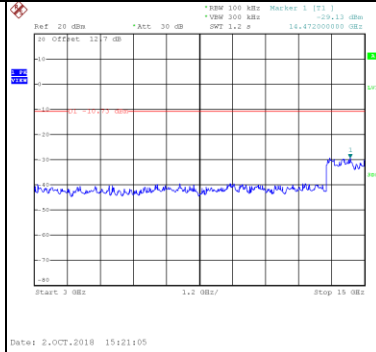
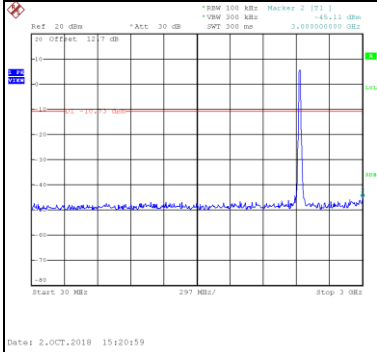
Bandedge-2462 MHz



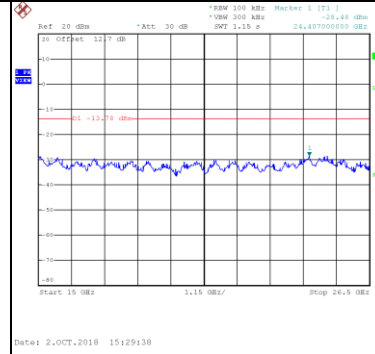
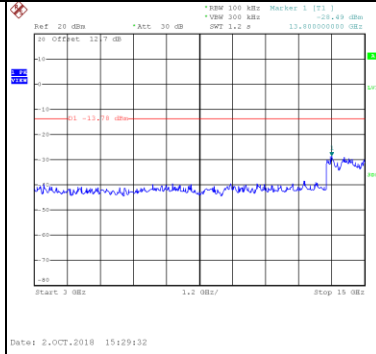
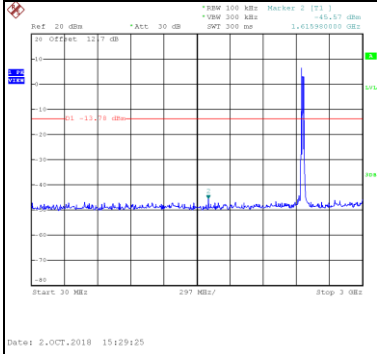
2412 MHz – 10 Harmonics



2437 MHz – 10 Harmonics

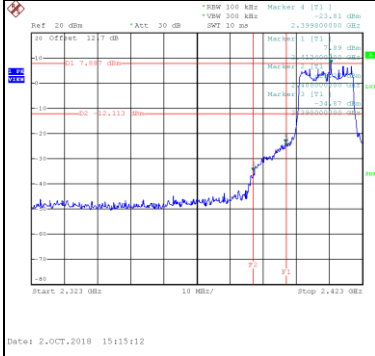


2462 MHz – 10 Harmonics

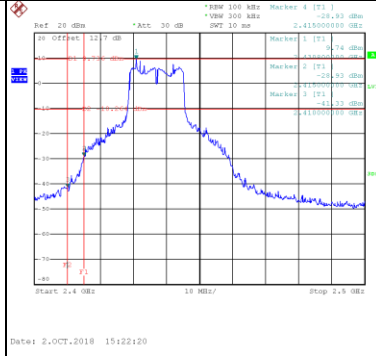


Test Mode IEEE 802.11g_ANT 2

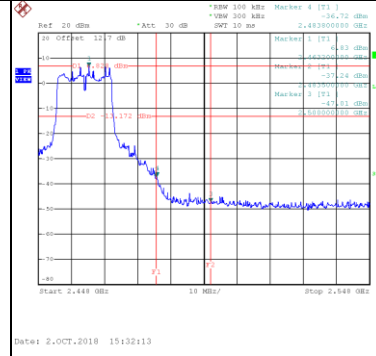
Bandedge-2412 MHz



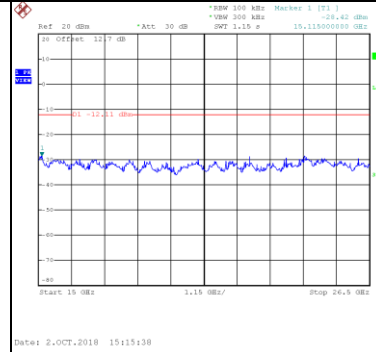
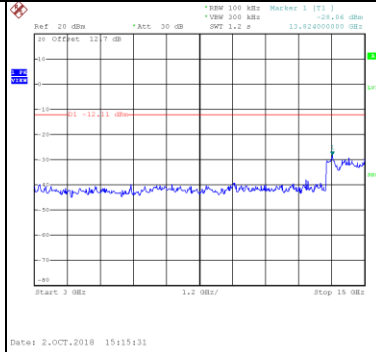
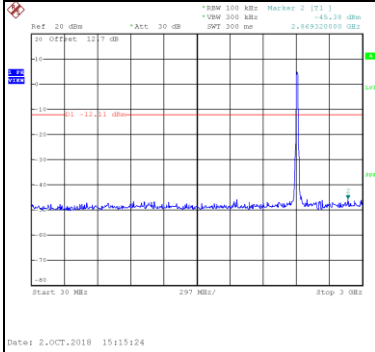
Bandedge-2437 MHz



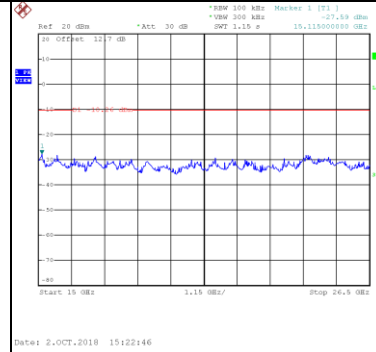
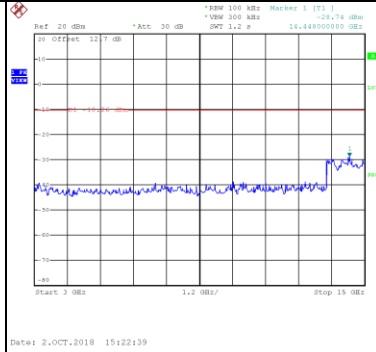
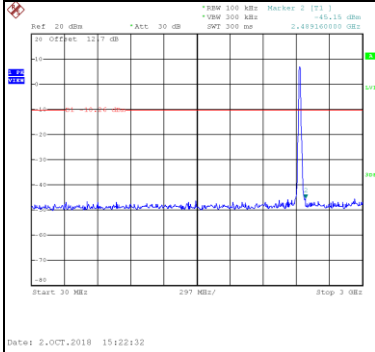
Bandedge-2462 MHz



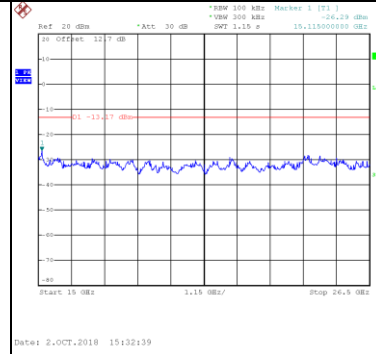
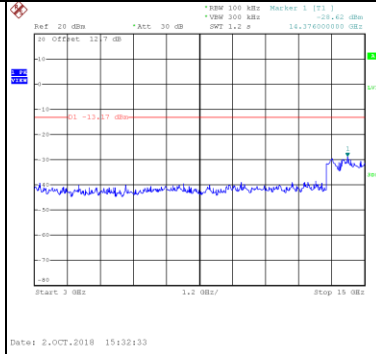
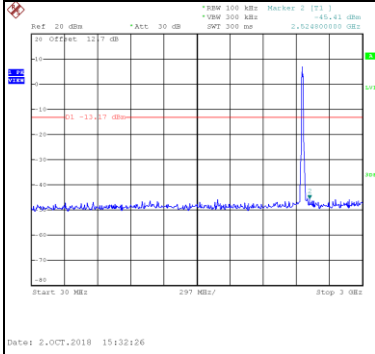
2412 MHz – 10 Harmonics



2437 MHz – 10 Harmonics

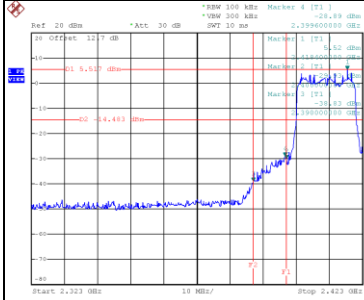


2462 MHz – 10 Harmonics

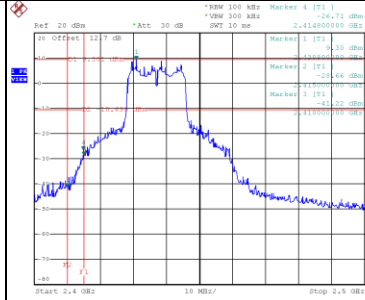


Test Mode IEEE 802.11n (HT20)_ANT 1

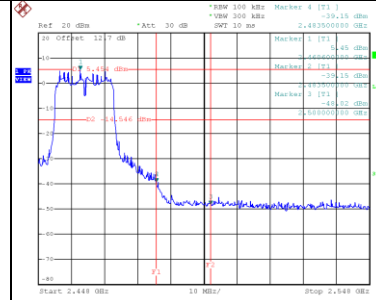
Bandedge-2412 MHz



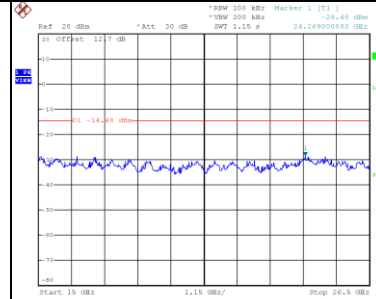
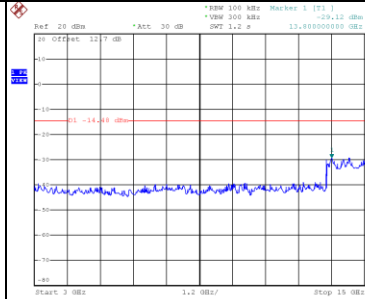
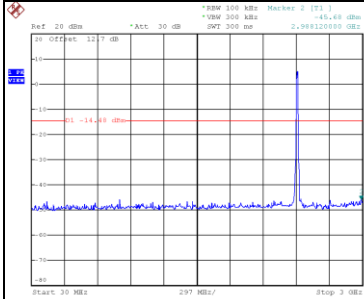
Bandedge-2437 MHz



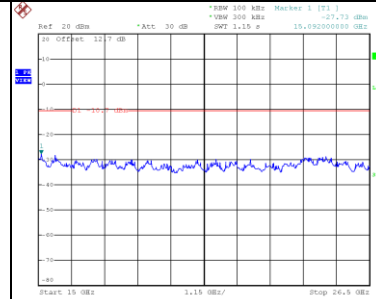
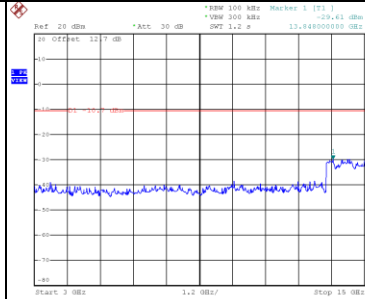
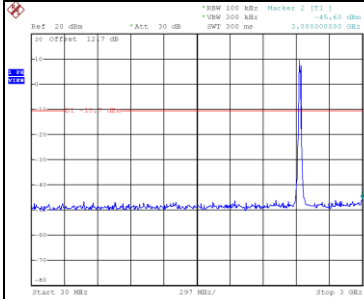
Bandedge-2462 MHz



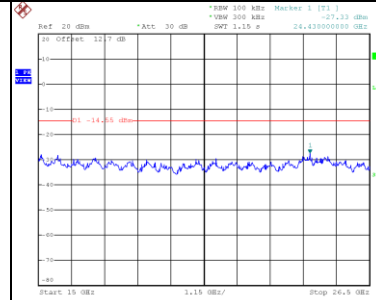
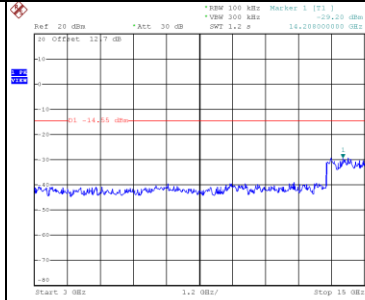
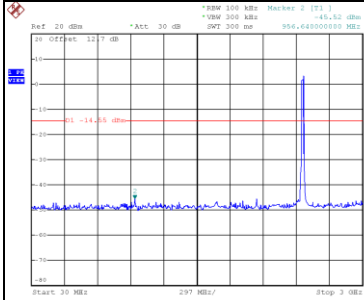
2412 MHz – 10 Harmonics



2437 MHz – 10 Harmonics

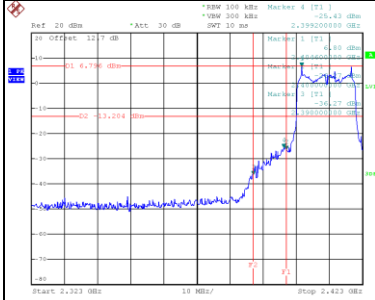


2462 MHz – 10 Harmonics

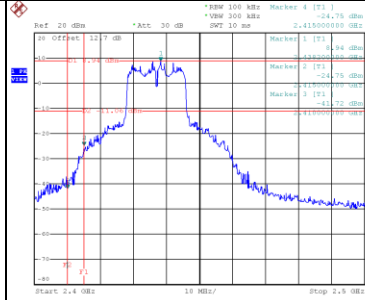


Test Mode IEEE 802.11n (HT20)_ANT 2

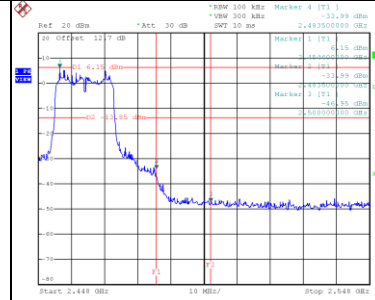
Bandedge-2412 MHz



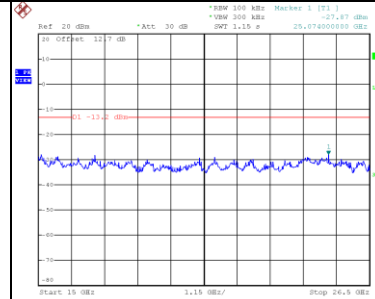
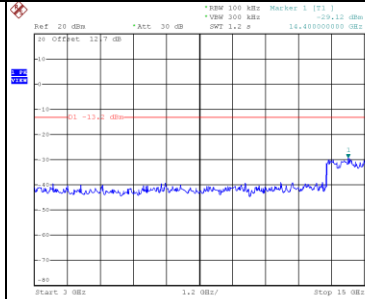
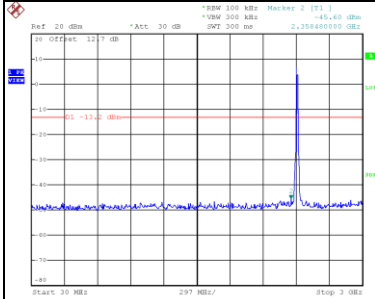
Bandedge-2437 MHz



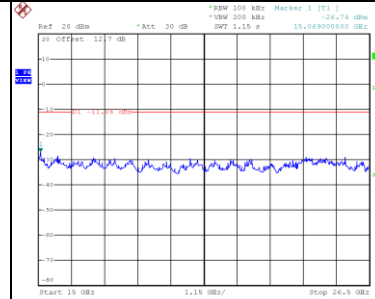
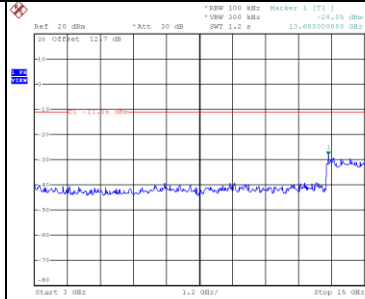
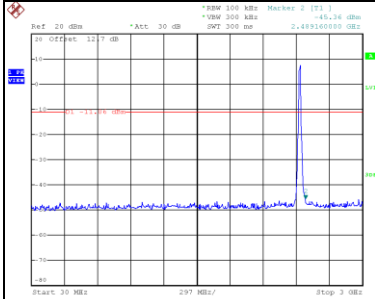
Bandedge-2462 MHz



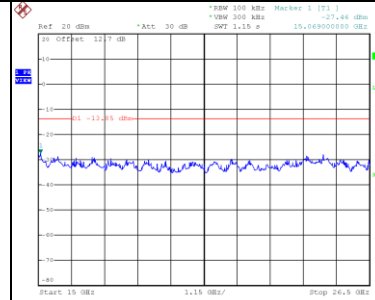
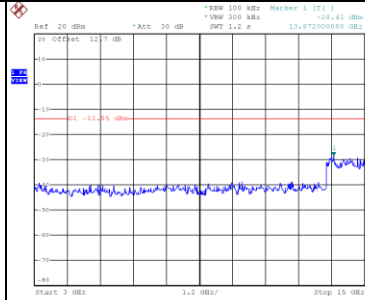
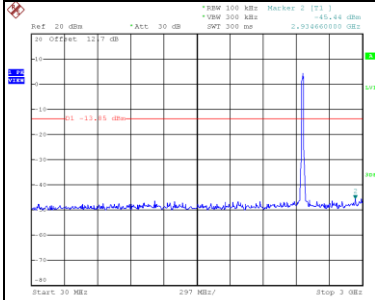
2412 MHz – 10 Harmonics



2437 MHz – 10 Harmonics

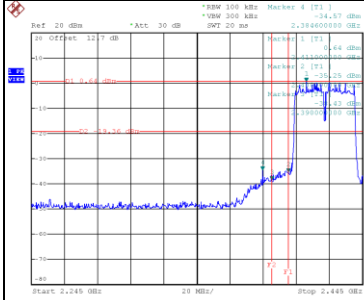


2462 MHz – 10 Harmonics



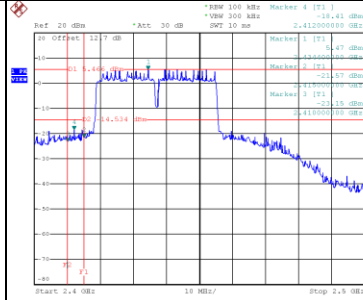
Test Mode IEEE 802.11n (HT40)_ANT 1

Bandedge-2422 MHz



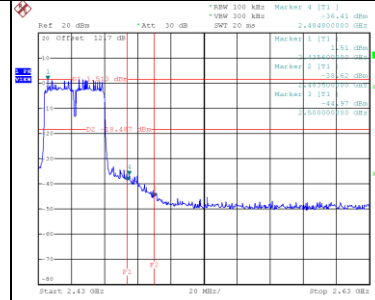
Date: 2.OCT.2018 16:24:36

Bandedge-2437 MHz



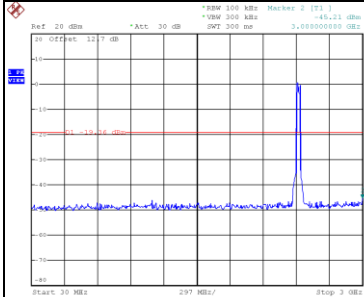
Date: 2.OCT.2018 16:31:48

Bandedge-2452 MHz

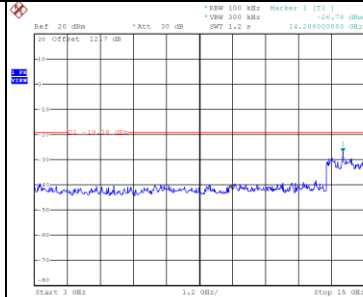


Date: 2.OCT.2018 16:39:00

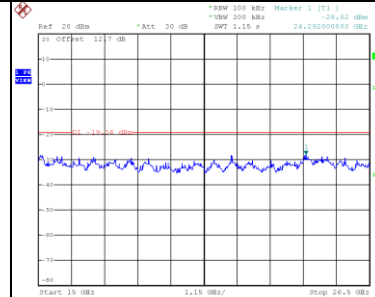
2422 MHz – 10 Harmonics



Date: 2.OCT.2018 16:24:48

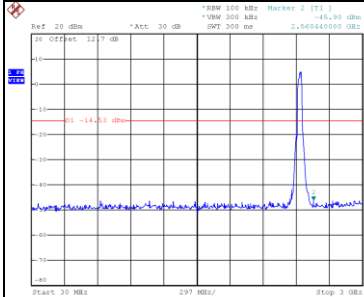


Date: 2.OCT.2018 16:24:55

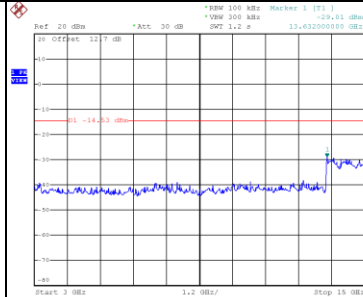


Date: 2.OCT.2018 16:25:02

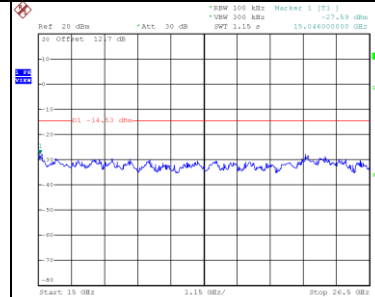
2437 MHz – 10 Harmonics



Date: 2.OCT.2018 16:32:00

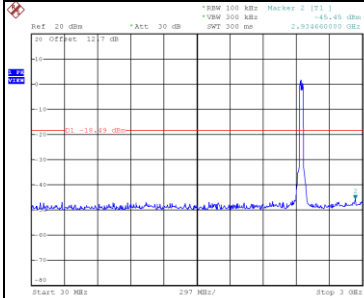


Date: 2.OCT.2018 16:32:07

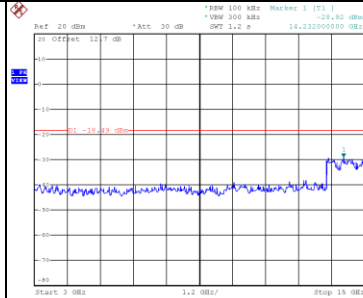


Date: 2.OCT.2018 16:32:14

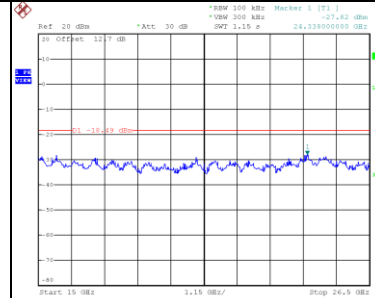
2452 MHz – 10 Harmonics



Date: 2.OCT.2018 16:39:12



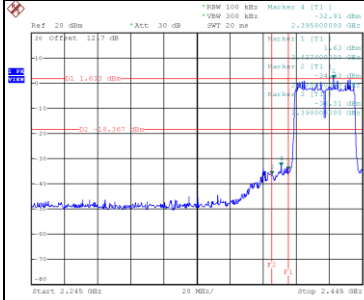
Date: 2.OCT.2018 16:39:19



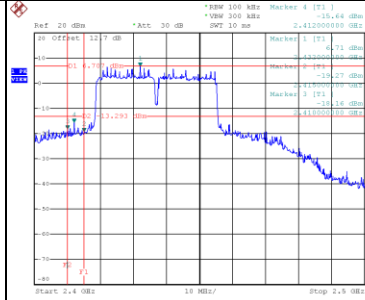
Date: 2.OCT.2018 16:39:26

Test Mode IEEE 802.11n (HT40)_ANT 2

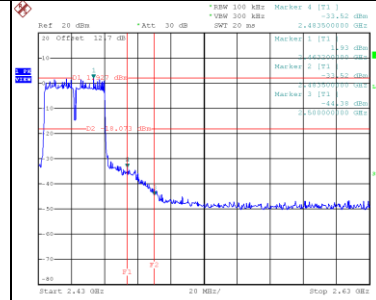
Bandedge-2422 MHz



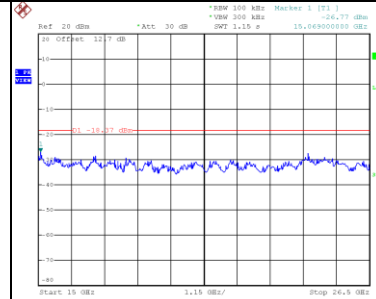
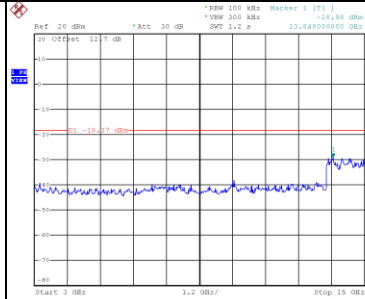
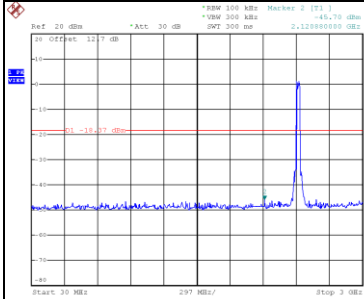
Bandedge-2437 MHz



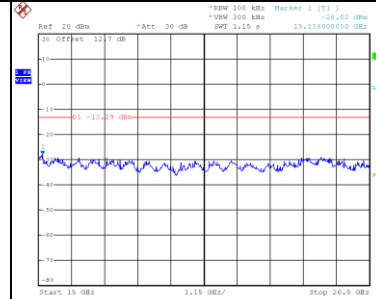
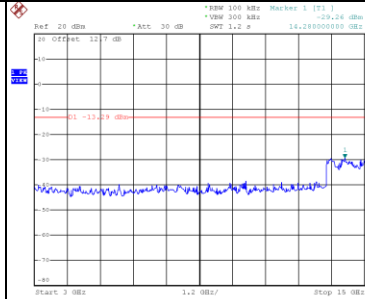
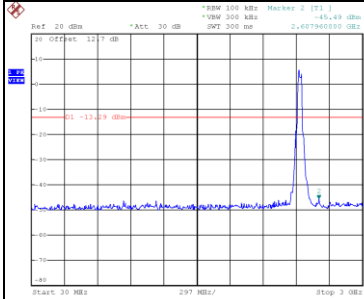
Bandedge-2452 MHz



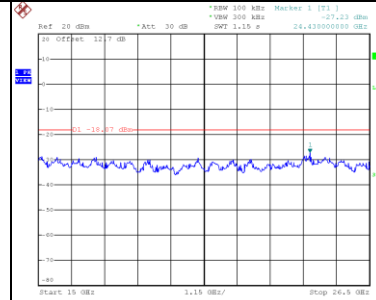
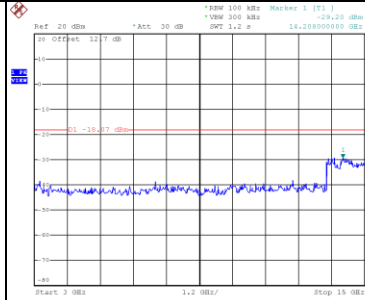
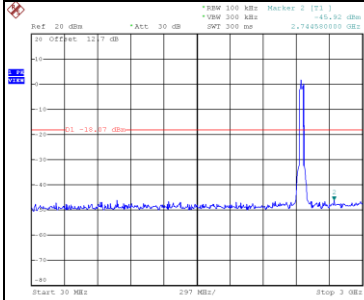
2422 MHz – 10 Harmonics



2437 MHz – 10 Harmonics



2452 MHz – 10 Harmonics

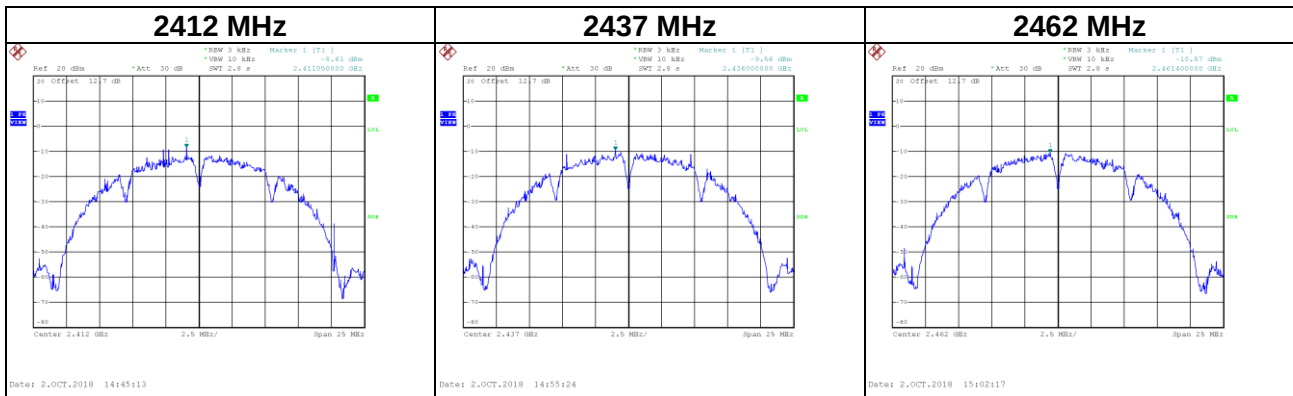


APPENDIX H POWER SPECTRAL DENSITY

CONTINUE ON NEXT PAGE

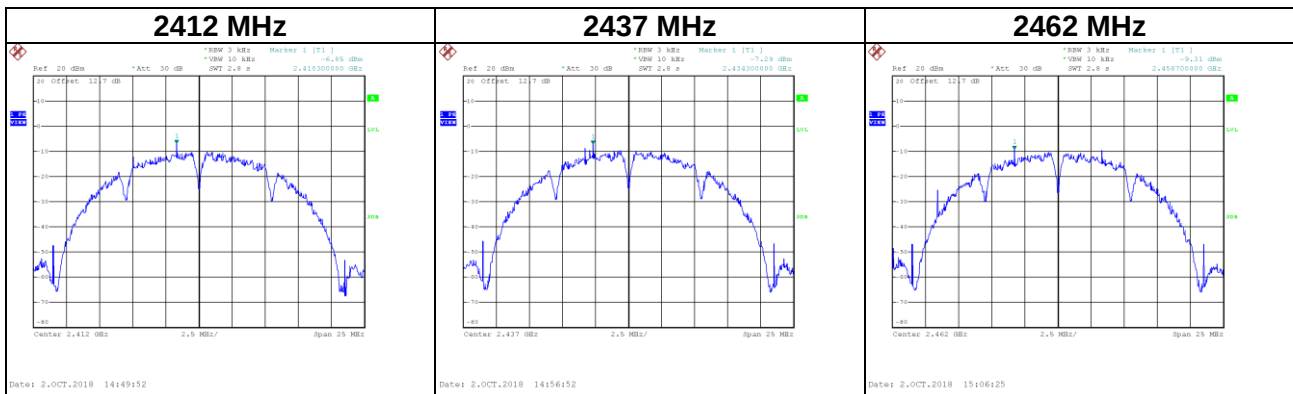
Test Mode IEEE 802.11b_ANT 1

Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
2412	-8.61	7.99	Complies
2437	-9.56	7.99	Complies
2462	-10.57	7.99	Complies



Test Mode IEEE 802.11b_ANT 2

Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2412	-6.85	7.99	Complies
2437	-7.29	7.99	Complies
2462	-9.31	7.99	Complies

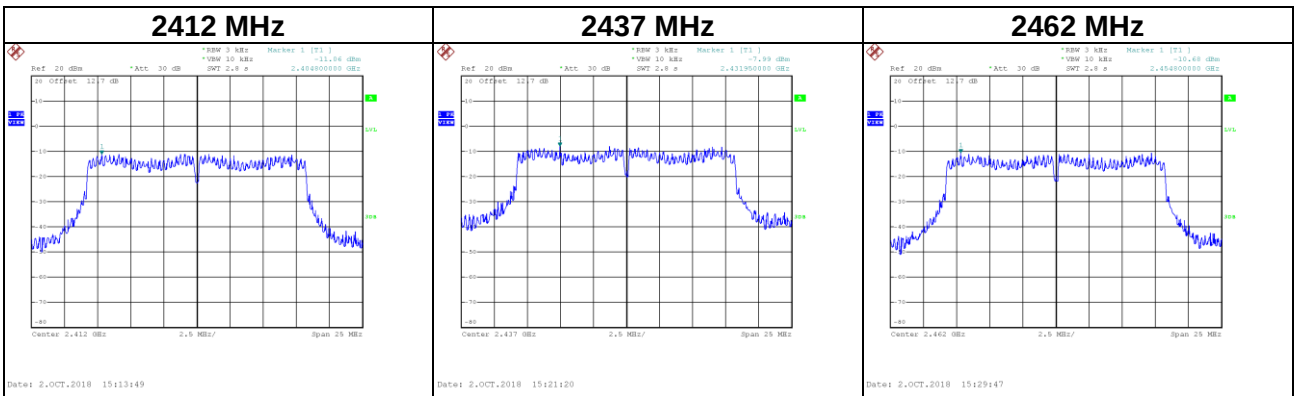


Test Mode IEEE 802.11b_Total

Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2412	-4.63	7.99	Complies
2437	-5.27	7.99	Complies
2462	-6.88	7.99	Complies

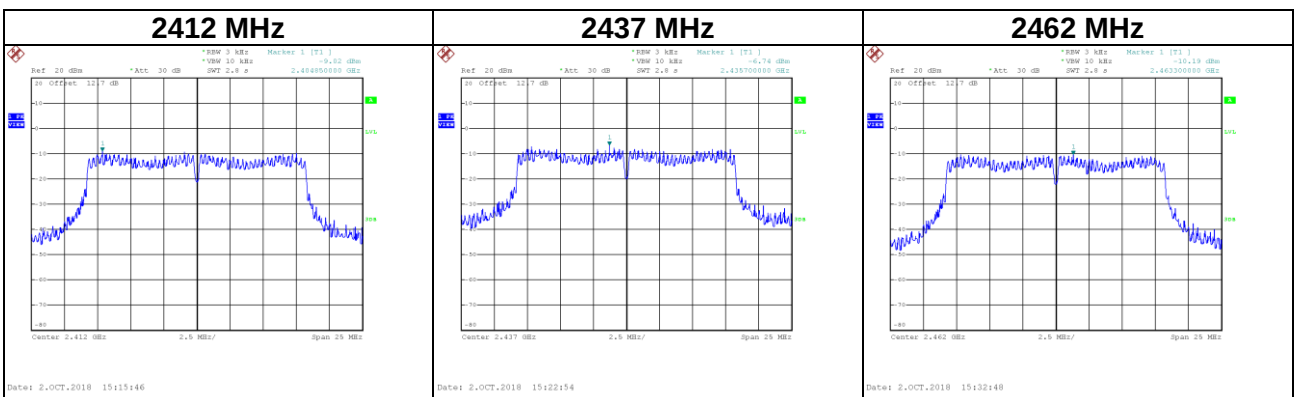
Test Mode	IEEE 802.11g_ANT 1
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Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2412	-11.06	7.99	Complies
2437	-7.99	7.99	Complies
2462	-10.68	7.99	Complies



Test Mode	IEEE 802.11g_ANT 2
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Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2412	-9.02	7.99	Complies
2437	-6.74	7.99	Complies
2462	-10.19	7.99	Complies

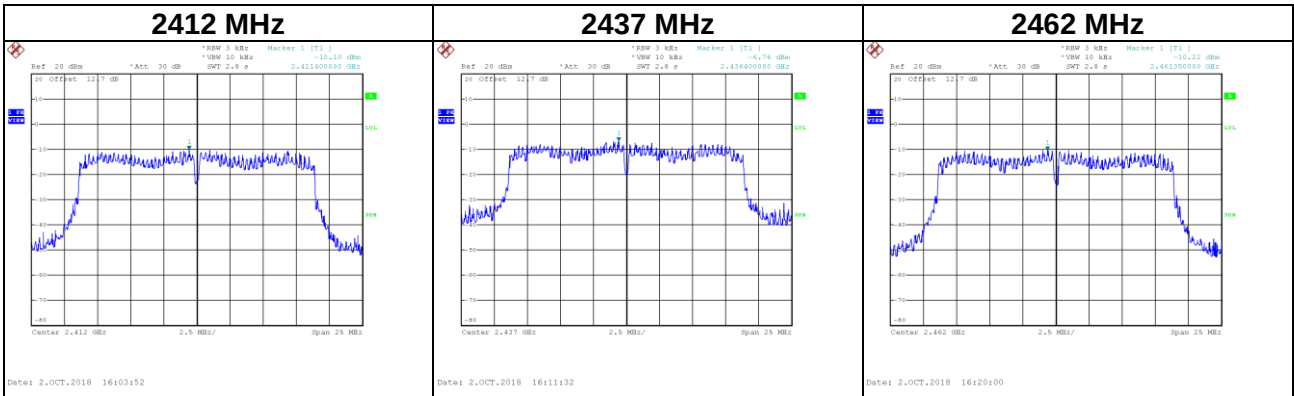


Test Mode	IEEE 802.11g_Total
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Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2412	-6.91	7.99	Complies
2437	-4.31	7.99	Complies
2462	-7.42	7.99	Complies

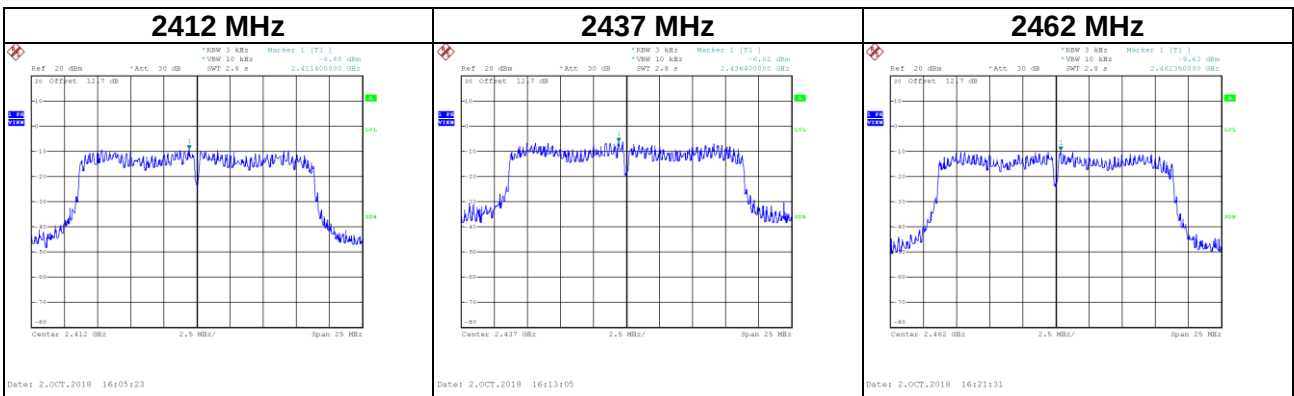
Test Mode	IEEE 802.11n (HT20)_ANT 1
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Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2412	-10.10	7.99	Complies
2437	-6.76	7.99	Complies
2462	-10.22	7.99	Complies



Test Mode	IEEE 802.11n (HT20)_ANT 2
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Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2412	-8.88	7.99	Complies
2437	-6.02	7.99	Complies
2462	-9.63	7.99	Complies

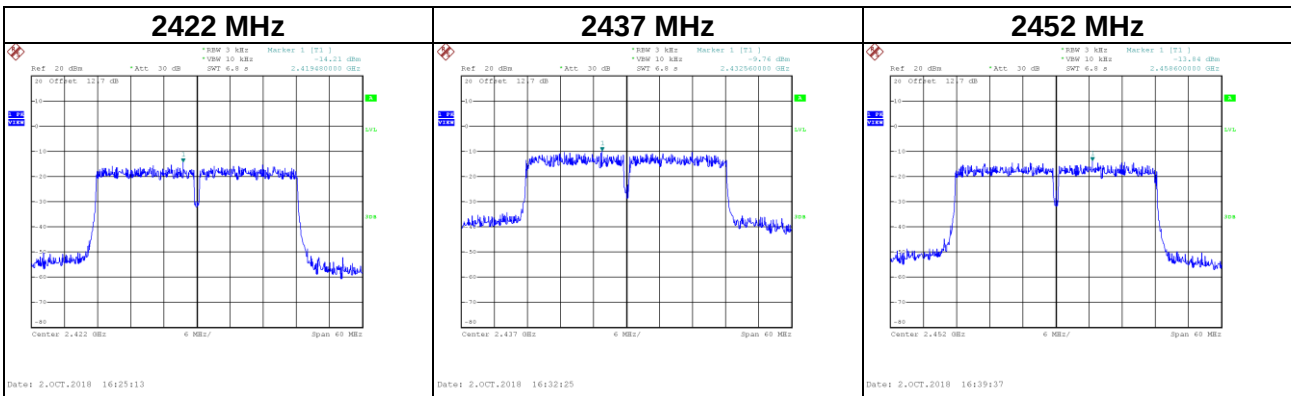


Test Mode	IEEE 802.11n (HT20)_Total
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Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2412	-6.44	7.99	Complies
2437	-3.36	7.99	Complies
2462	-6.90	7.99	Complies

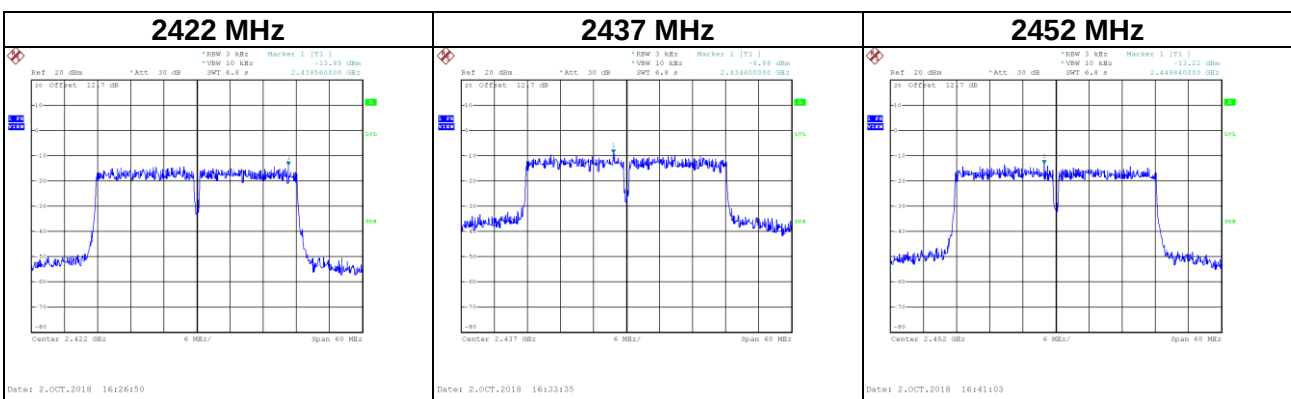
Test Mode IEEE 802.11n (HT40)_ANT 1

Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2422	-14.21	7.99	Complies
2437	-9.76	7.99	Complies
2452	-13.84	7.99	Complies



Test Mode IEEE 802.11n (HT40)_ANT 2

Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2422	-13.85	7.99	Complies
2437	-8.88	7.99	Complies
2452	-13.22	7.99	Complies



Test Mode IEEE 802.11n (HT40)_Total

Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Limit (dBm)	Result
2422	-11.02	7.99	Complies
2437	-6.29	7.99	Complies
2452	-10.51	7.99	Complies

End of Test Report