

FCC Radio Test Report

FCC ID: 2ALZB-AG1103

Report No. : BTL-FCCP-3-2102T091
Equipment : IEEE 802.11 2X2 MU-MIMO ac/a/b/g/n Wireless LAN +Bluetooth NGFF Module
Model Name : W8997-1216
Brand Name : Marvell
Applicant : SECO S.p.A
Address : Via Achille Grandi 20, 52100 Arezzo Italy

Radio Function : WLAN 2.4 GHz

FCC Rule Part(s) : FCC Part15, Subpart C (15.247)
Measurement Procedure(s) : ANSI C63.10-2013
FCC KDB 414788 D01 Radiated Test Site v01r01
FCC KDB 558074 D01 15.247 Meas Guidance v05r02

Date of Receipt : 2021/2/9
Date of Test : 2021/2/9 ~ 2021/8/25
Issued Date : 2021/10/6

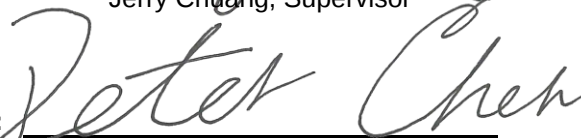
The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with 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/IEC 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 which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and 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.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date
BTL-FCCP-3-2102T091	R00	Original Report.	2021/7/28
BTL-FCCP-3-2102T091	R01	Revised report to address TCB's comments.	2021/8/16
BTL-FCCP-3-2102T091	R02	Revised report to address TCB's comments.	2021/8/26
BTL-FCCP-3-2102T091	R03	Revised report to address TCB's comments.	2021/9/29
BTL-FCCP-3-2102T091	R04	Revised report to address TCB's comments.	2021/10/1
BTL-FCCP-3-2102T091	R05	Revised report to address TCB's comments.	2021/10/6

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC Part 15, Subpart C (15.247)				
Standard(s) Section	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	Pass	-----
15.247(b)	Output Power	APPENDIX D	Pass	-----

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) This test report is issued for the RF module (FCC ID: 2ALZB-AG1103) to be incorporated to the host device (Model number: Unity22 / Unity32), Product name: Display Unity 22" / Display Unity 32"). Since the RF module has been certificated, after evaluation, above test items were criticized and reconfirmed in this report.
- (4) After spot check, this revision does not change original radio parameters.

1.1 TEST FACILITY

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

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

☒ C05 ☐ CB08 ☐ CB11 ☒ CB15 ☐ CB16
☒ SR05

1.2 MEASUREMENT UNCERTAINTY

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 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
CB15	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test :

Test Item	U,(dB)
Output Power	1.06

NOTE:

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	24 °C, 62 %	AC 120V	William Wei
Radiated emissions below 1 GHz	Refer to data	AC 120V	Hunter Chiang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Hunter Chiang
Output Power	24.9 °C, 46 %	AC 120V	William Wei

1.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

Test Software	CMD			
Mode	2412 MHz	2437 MHz	2462 MHz	Data Rate
IEEE 802.11b	30	30	30	1 Mbps
IEEE 802.11g	30	30	30	6 Mbps
IEEE 802.11n (HT20)	30	30	30	MCS0
Modulation Mode	2422 MHz	2437 MHz	2452 MHz	Data Rate
IEEE 802.11n (HT40)	30	30	30	MCS0

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	IEEE 802.11 2X2 MU-MIMO ac/a/b/g/n Wireless LAN +Bluetooth NGFF Module
Model Name	W8997-1216
Brand Name	Marvell
Model Difference	N/A
Power Supply Rating	DC 3.3V from host equipment
Host device information	
Equipment	Display Unity 22" / Display Unity 32"
Model Name	Unity22 / Unity32
Brand Name	SECO
Model Difference	Differ in product size.
Power Source	DC voltage supplied from AC/DC Adapter.
Power Rating	DC 12V
Products Covered	1 * Adapter: EDAC / EA1050A-120
WIFI+BT Module	Marvell / W8997-1216
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2412 MHz ~ 2462 MHz
Maximum Output Power	IEEE 802.11b: 17.83dBm (0.603W) IEEE 802.11g: 24.67dBm (0.2932W) IEEE 802.11n (HT20): 24.90dBm (0.3094W) IEEE 802.11n (HT40): 24.84dBm (0.3047W)
Test Model	Unity22
Sample Status	Engineering Sample
EUT Modification(s)	N/A

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

(3) Table for Filed Antenna:

Antenna	Manufacture	Part number	Type	Frequency Range (MHz)	Gain (dBi)
Main	dynaflex	616	Dipole	2400-2480	1.1
				5000-5800	2.5

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11n (HT40)	09	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11b	01/11	Bandedge
	TX Mode_IEEE 802.11g		
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11n (HT40)		
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11b	01/06/11	Harmonic
	TX Mode_IEEE 802.11g		
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11n (HT40)		
Output Power	TX Mode_IEEE 802.11b	01/06/11	-
	TX Mode_IEEE 802.11g		
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11n (HT40)		

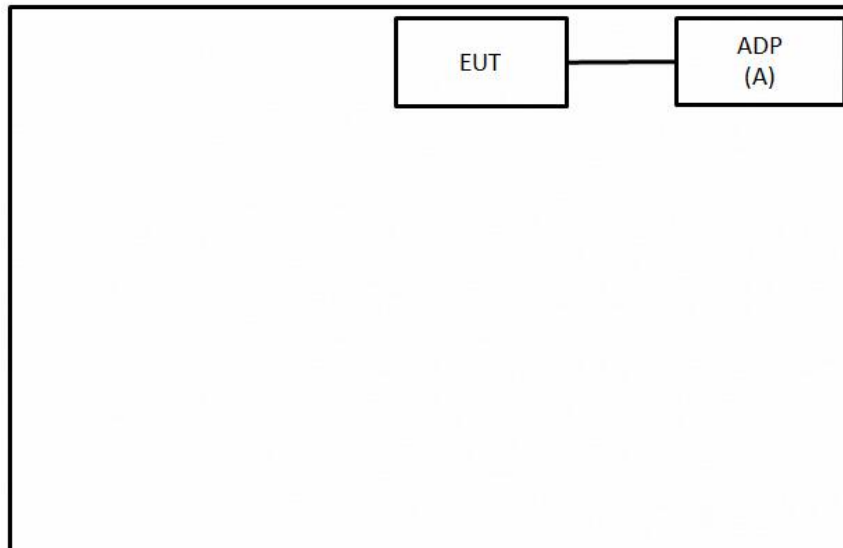
NOTE:

- (1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.
- (2) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (3) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (4) After pretest, Host device Display Unity 22" / Unity22 is found to be the worst case and used for final test.

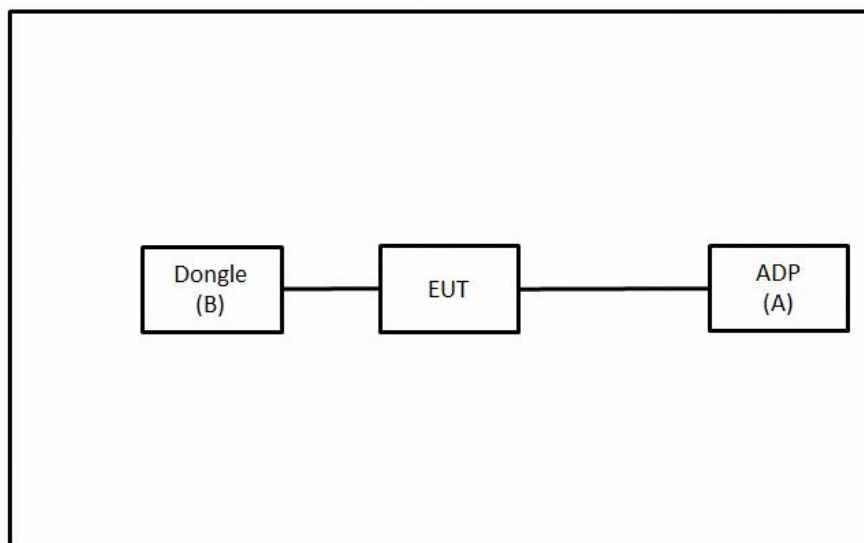
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC Power Line Conducted Emissions Test



Radiated Emissions Test



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	EDAC	EA1050A-120	N/A	Supplied by test requester
B	Dongle	Transcend	JetFlash700	N/A	Supplied by test requester

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
-	-	-	-	-	-

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	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
 Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	=	-18.33

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

3.2 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 PHOTO.

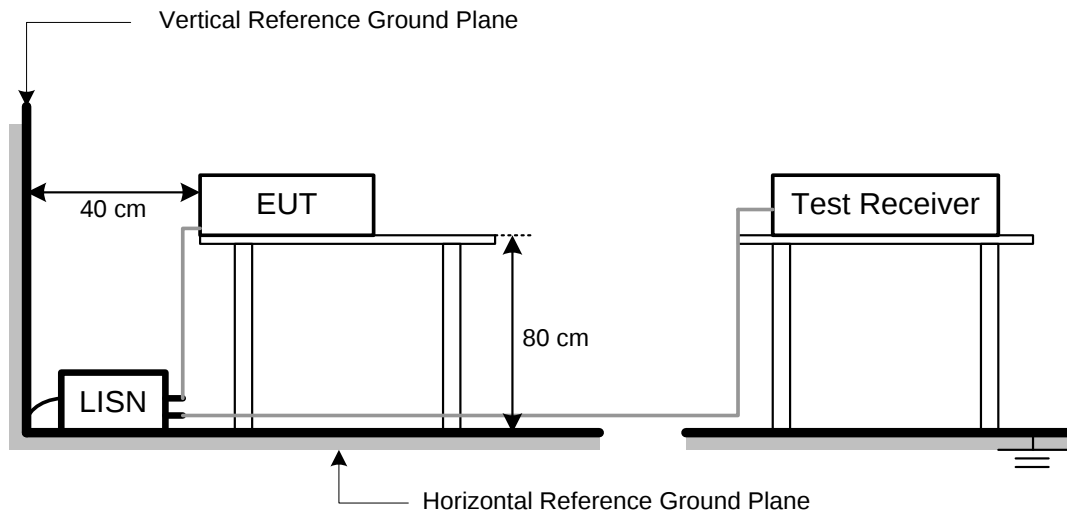
NOTE:

- (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.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 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
Calculation example:

Reading Level		Correct Factor		Measurement Value
19.11	+	2.11	=	21.22

Measurement Value		Limit Value		Margin Level
21.22	-	54	=	-32.78

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

Mode	VBW(Hz)
IEEE 802.11b	300
IEEE 802.11g	360
IEEE 802.11n (HT20)	300
IEEE 802.11n (HT40)	470

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

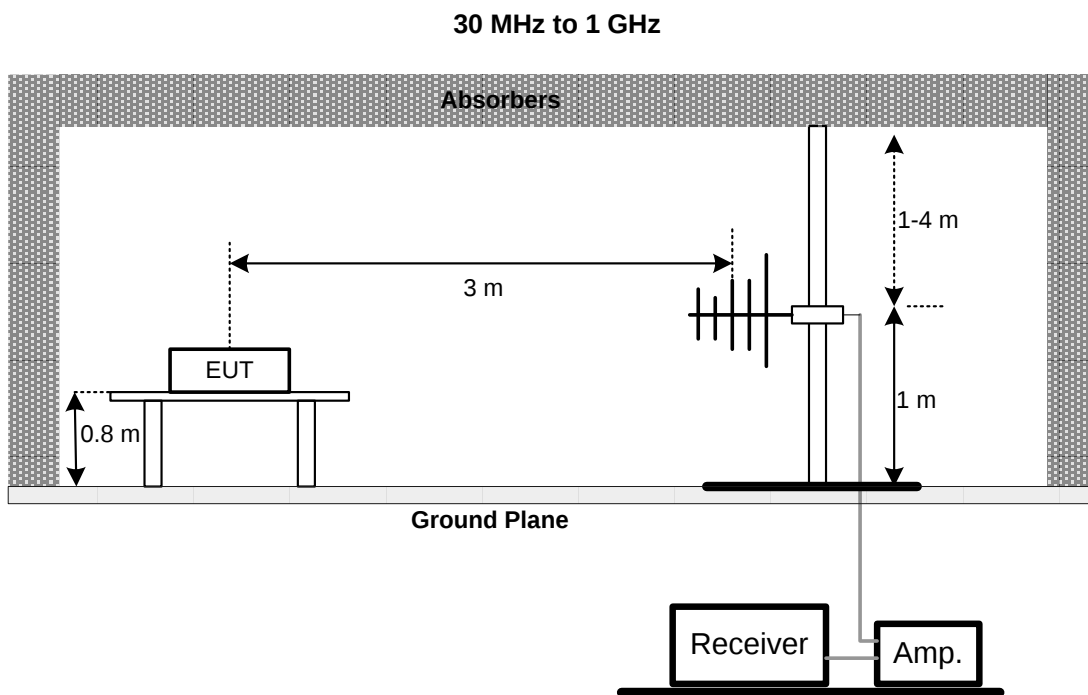
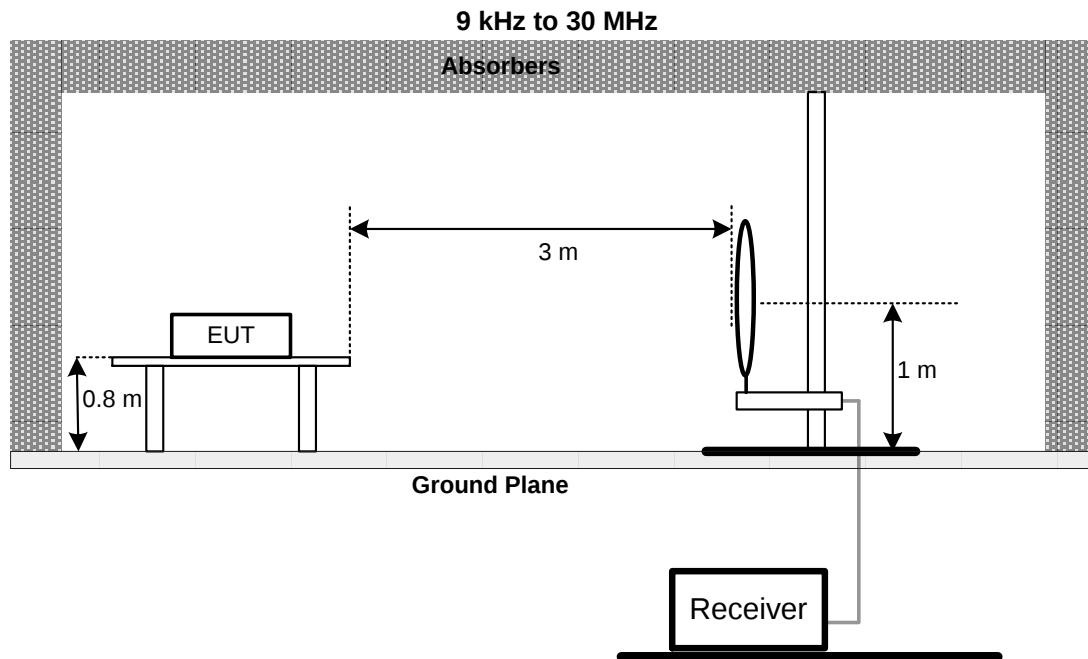
4.2 TEST PROCEDURE

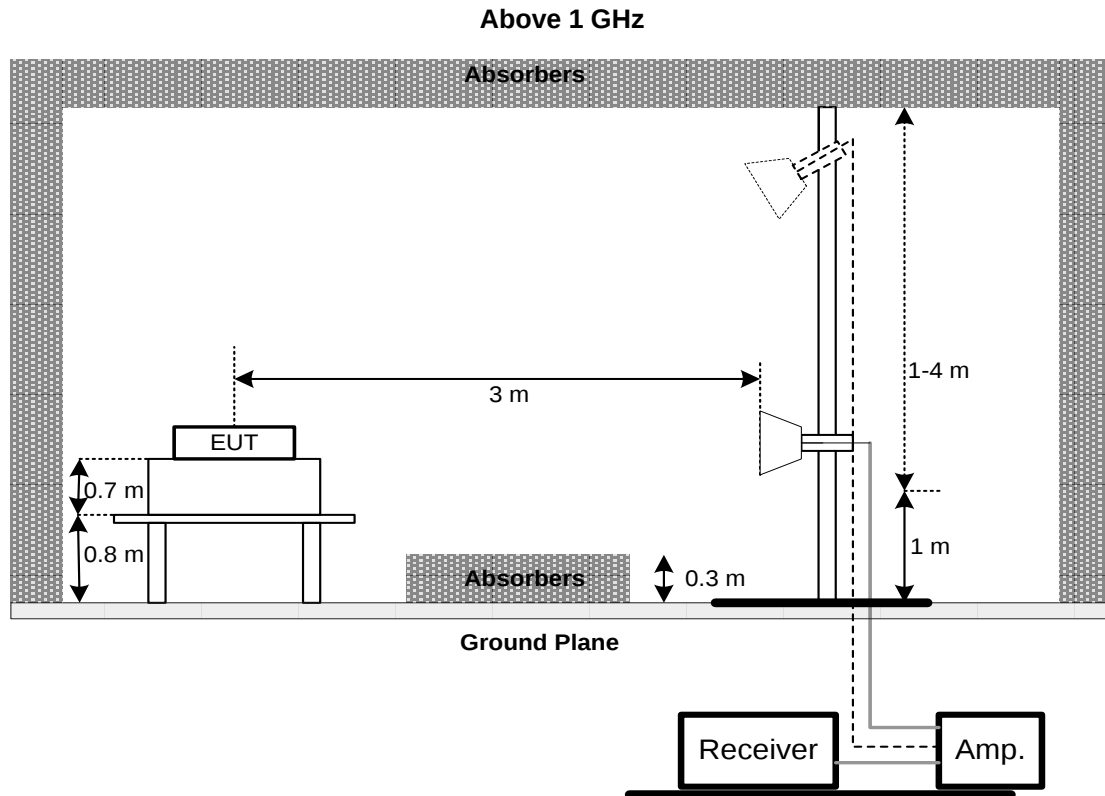
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.
- For the radiated emission test sites for measurements from 9 kHz to 30 MHz, in accordance with FCC KDB 414788, an alternative test site may be used for the measurement. The open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result. Therefore the result from the semi-anechoic chamber tests is shown in this section of the test report.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP





4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

NOTE:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.6 TEST RESULT – BELOW 30 MHZ

There were no emissions found below 30 MHz within 20 dB of the limit.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX C.

NOTE:

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

5 OUTPUT POWER TEST

5.1 LIMIT

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

5.2 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 ANSI C63.10, subclause 11.9.1.3 and section 8.1 of KDB 558074 D01.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	2020/6/11	2021/6/10
2	Test Cable	EMCI	EMC400-BM-BM-5000	170501	2020/6/8	2021/6/7
3	EMI Test Receiver	R&S	ESCI	100080	2020/6/15	2021/6/14
4	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325B	980217	2021/4/8	2022/4/7
2	Preamplifier	EMCI	EMC012645B	980267	2021/4/8	2022/4/7
3	Preamplifier	EMCI	EMC001340	980555	2021/4/8	2022/4/7
4	Test Cable	EMCI	EMC-SM-SM-1000	180809	2021/4/8	2022/4/7
5	Test Cable	EMCI	EMC104-SM-SM-3000	151205	2021/4/8	2022/4/7
6	Test Cable	EMCI	EMC-SM-SM-7000	180408	2021/4/8	2022/4/7
7	MXE EMI Receiver	Agilent	N9038A	MY554200087	2021/5/27	2022/5/26
8	Signal Analyzer	Agilent	N9010A	MY52220990	2021/8/18	2022/8/17
9	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2021/6/1	2022/5/31
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2021/6/2	2022/6/1
11	Horn Ant	Schwarzbeck	BBHA 9170	BBHA 9170340	2021/7/9	2022/7/8
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	VULB 9168-352	2021/7/23	2022/7/22
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/7/23	2022/7/22
14	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2487A	6K00004714	2020/9/3	2021/9/2
2	Power Sensor	Anritsu	MA2491A	034138	2020/9/3	2021/9/2

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

7 EUT TEST PHOTO

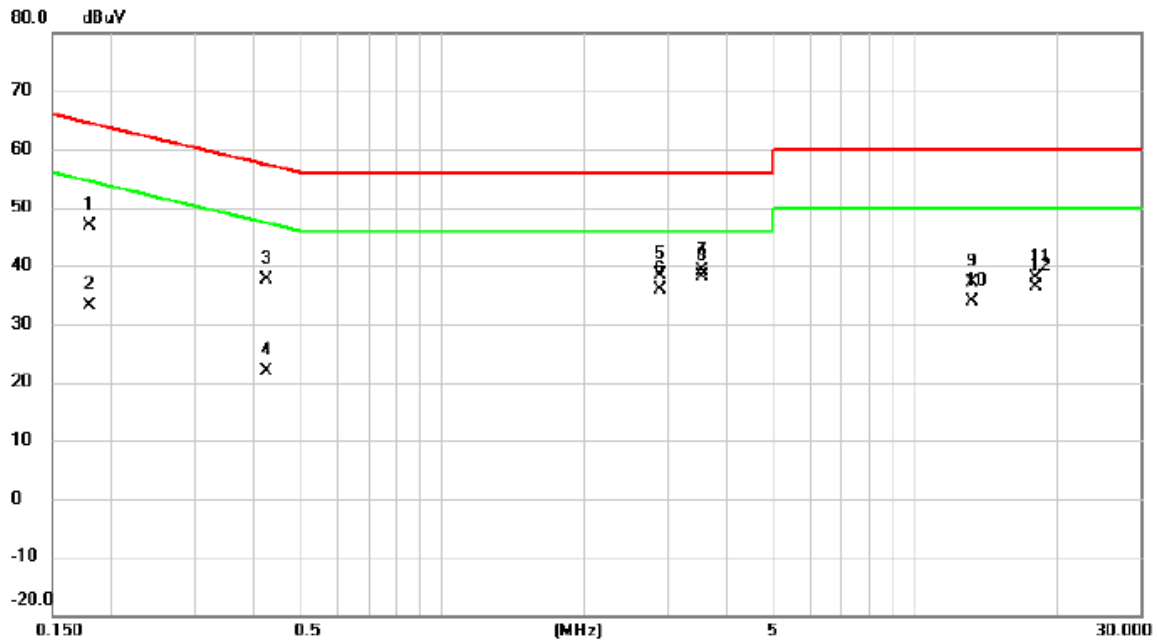
Please refer to document Appendix No.: TP-2102T091-FCCP-1 (APPENDIX-TEST PHOTOS).

8 EUT PHOTOS

Please refer to document Appendix No.: EP-2102T091-2 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2021/4/23
Test Frequency	-	Phase	Line

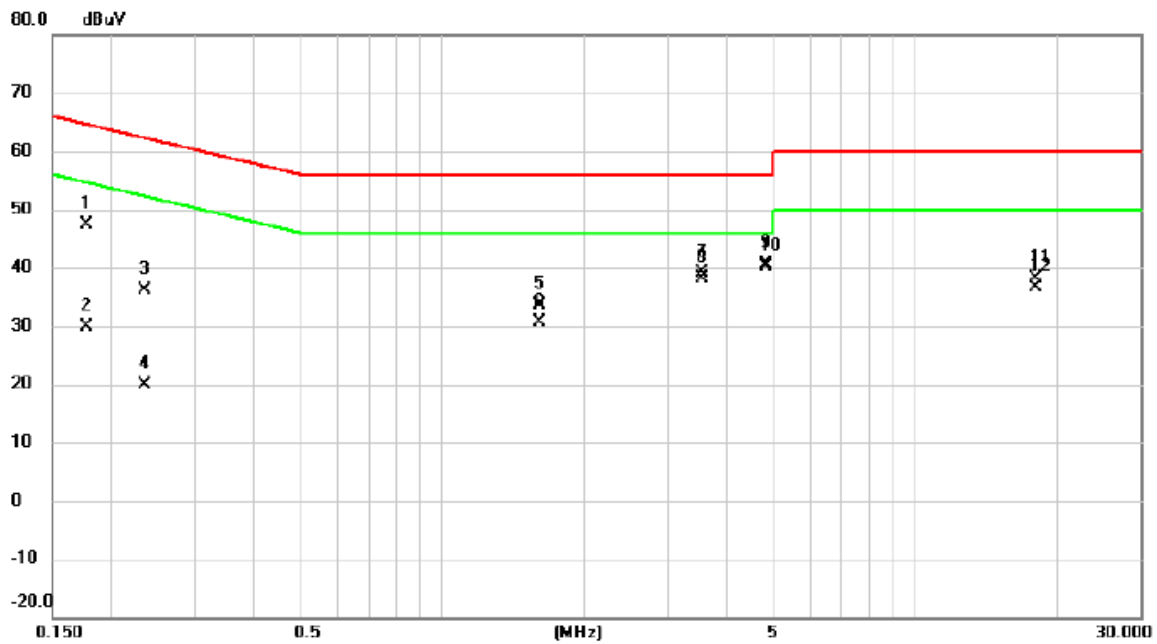


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1793	37.24	9.67	46.91	64.52	-17.61	QP	
2		0.1793	23.47	9.67	33.14	54.52	-21.38	AVG	
3		0.4245	27.85	9.68	37.53	57.36	-19.83	QP	
4		0.4245	12.23	9.68	21.91	47.36	-25.45	AVG	
5		2.8928	28.52	9.76	38.28	56.00	-17.72	QP	
6		2.8928	26.17	9.76	35.93	46.00	-10.07	AVG	
7		3.5363	29.28	9.78	39.06	56.00	-16.94	QP	
8	*	3.5363	28.25	9.78	38.03	46.00	-7.97	AVG	
9		13.1888	27.13	9.94	37.07	60.00	-22.93	QP	
10		13.1888	24.05	9.94	33.99	50.00	-16.01	AVG	
11		18.0105	27.82	9.96	37.78	60.00	-22.22	QP	
12		18.0105	26.37	9.96	36.33	50.00	-13.67	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	Normal	Tested Date	2021/4/23
Test Frequency	-	Phase	Neutral

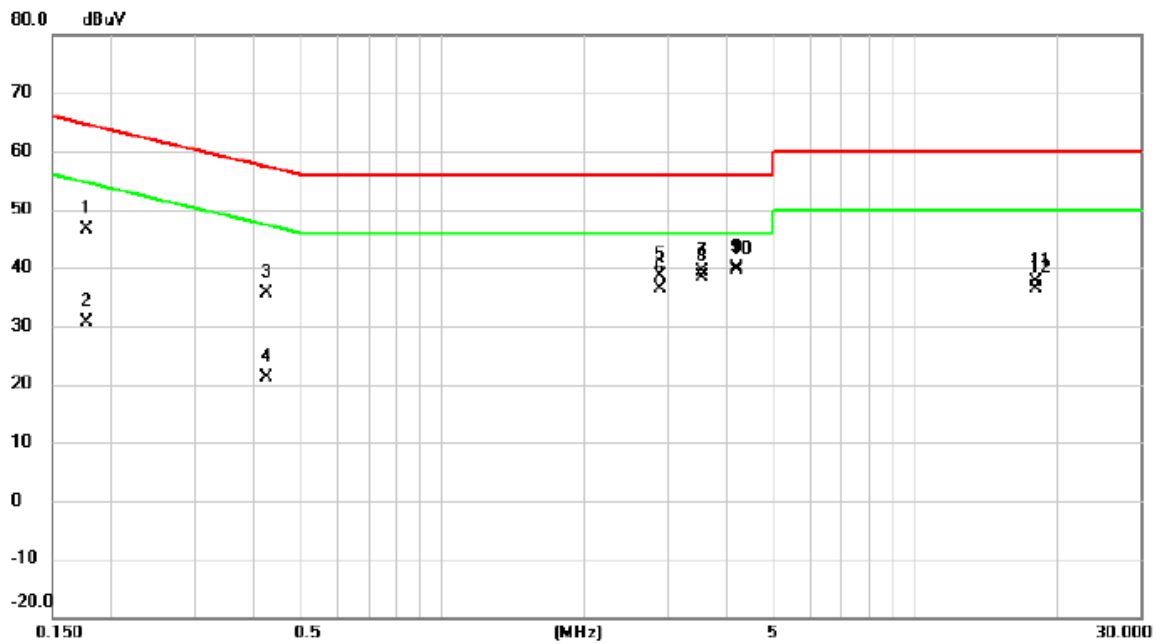


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1770	37.75	9.67	47.42	64.63	-17.21	QP	
2		0.1770	20.25	9.67	29.92	54.63	-24.71	AVG	
3		0.2355	26.39	9.68	36.07	62.25	-26.18	QP	
4		0.2355	10.25	9.68	19.93	52.25	-32.32	AVG	
5		1.6080	23.82	9.72	33.54	56.00	-22.46	QP	
6		1.6080	20.94	9.72	30.66	46.00	-15.34	AVG	
7		3.5363	29.24	9.78	39.02	56.00	-16.98	QP	
8		3.5363	28.28	9.78	38.06	46.00	-7.94	AVG	
9		4.8233	30.69	9.83	40.52	56.00	-15.48	QP	
10	*	4.8233	30.37	9.83	40.20	46.00	-5.80	AVG	
11		18.0083	28.18	9.96	38.14	60.00	-21.86	QP	
12		18.0083	26.66	9.96	36.62	50.00	-13.38	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2021/4/23
Test Frequency	-	Phase	Line

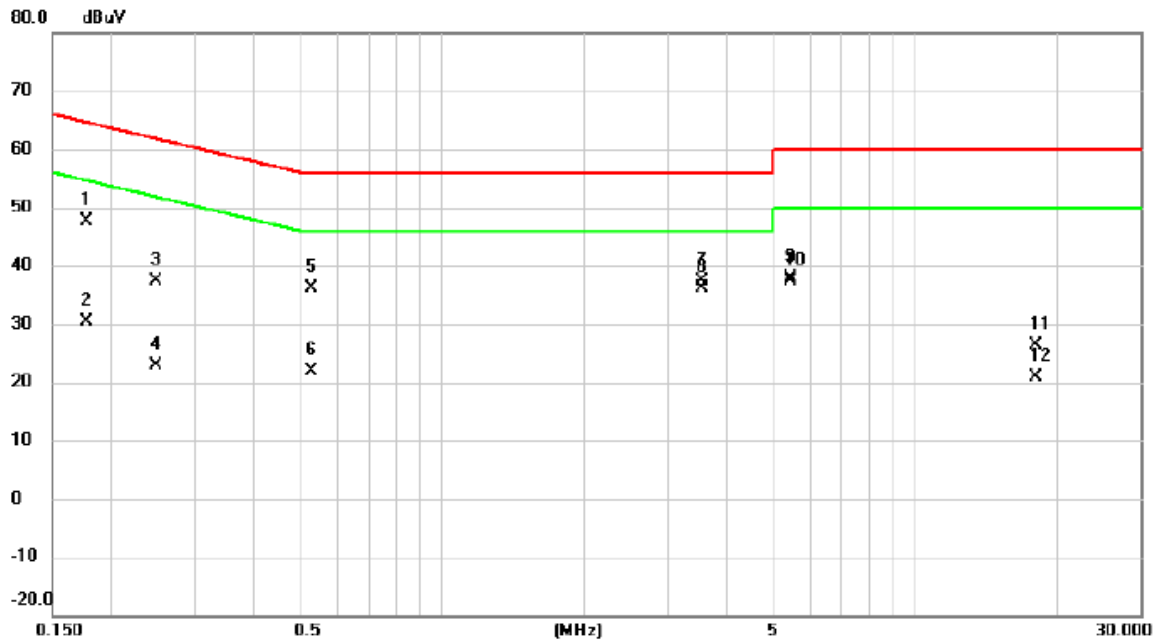


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1770	36.88	9.67	46.55	64.63	-18.08	QP	
2		0.1770	20.88	9.67	30.55	54.63	-24.08	AVG	
3		0.4245	26.04	9.68	35.72	57.36	-21.64	QP	
4		0.4245	11.36	9.68	21.04	47.36	-26.32	AVG	
5		2.8928	28.89	9.76	38.65	56.00	-17.35	QP	
6		2.8928	26.64	9.76	36.40	46.00	-9.60	AVG	
7		3.5363	29.56	9.78	39.34	56.00	-16.66	QP	
8		3.5363	28.48	9.78	38.26	46.00	-7.74	AVG	
9		4.1798	30.01	9.80	39.81	56.00	-16.19	QP	
10	*	4.1798	29.78	9.80	39.58	46.00	-6.42	AVG	
11		18.0060	27.68	9.96	37.64	60.00	-22.36	QP	
12		18.0060	26.44	9.96	36.40	50.00	-13.60	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2021/4/23
Test Frequency	-	Phase	Neutral



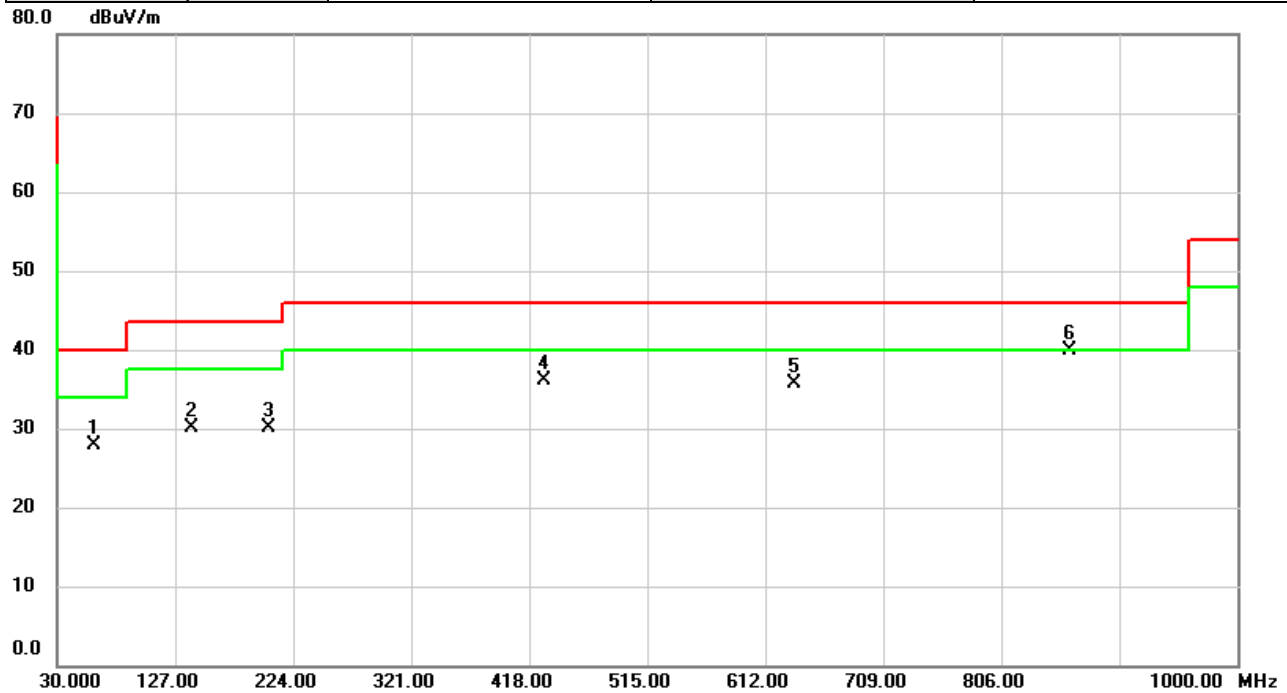
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1770	38.08	9.67	47.75	64.63	-16.88	QP	
2		0.1770	20.65	9.67	30.32	54.63	-24.31	AVG	
3		0.2490	27.70	9.68	37.38	61.79	-24.41	QP	
4		0.2490	13.19	9.68	22.87	51.79	-28.92	AVG	
5		0.5302	26.44	9.68	36.12	56.00	-19.88	QP	
6		0.5302	12.15	9.68	21.83	46.00	-24.17	AVG	
7		3.5340	27.62	9.78	37.40	56.00	-18.60	QP	
8	*	3.5340	26.38	9.78	36.16	46.00	-9.84	AVG	
9		5.4623	28.03	9.84	37.87	60.00	-22.13	QP	
10		5.4623	27.44	9.84	37.28	50.00	-12.72	AVG	
11		17.9948	16.30	9.96	26.26	60.00	-33.74	QP	
12		17.9948	10.87	9.96	20.83	50.00	-29.17	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Test Mode	IEEE802.11n(HT40)	Test Date	2021/5/24
Test Frequency	2452MHz	Polarization	Vertical
Temp	22°C	Hum.	57%

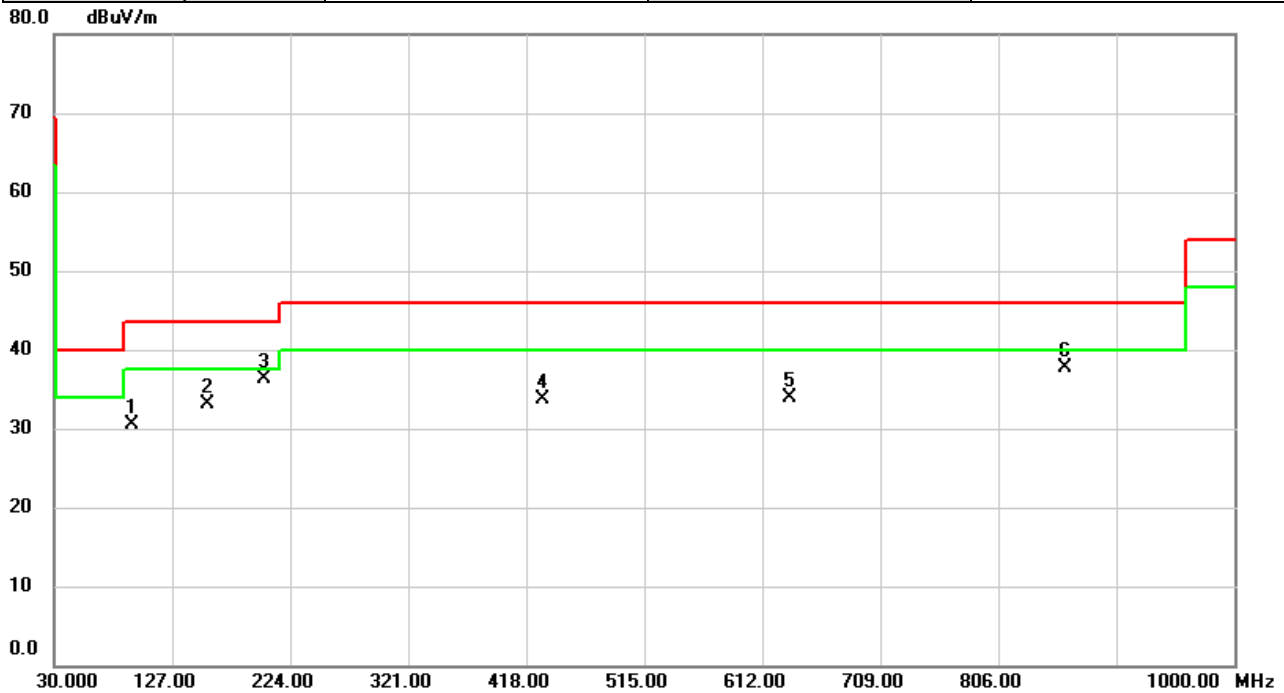


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		59.9083	36.62	-8.68	27.94	40.00	-12.06	peak	
2		141.1620	38.80	-8.61	30.19	43.50	-13.31	peak	
3		203.3067	40.76	-10.75	30.01	43.50	-13.49	peak	
4		430.3513	40.17	-4.14	36.03	46.00	-9.97	peak	
5		635.4093	35.88	-0.16	35.72	46.00	-10.28	peak	
6	*	862.8743	36.34	3.59	39.93	46.00	-6.07	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT40)	Test Date	2021/5/24
Test Frequency	2452MHz	Polarization	Horizontal
Temp	22°C	Hum.	57%



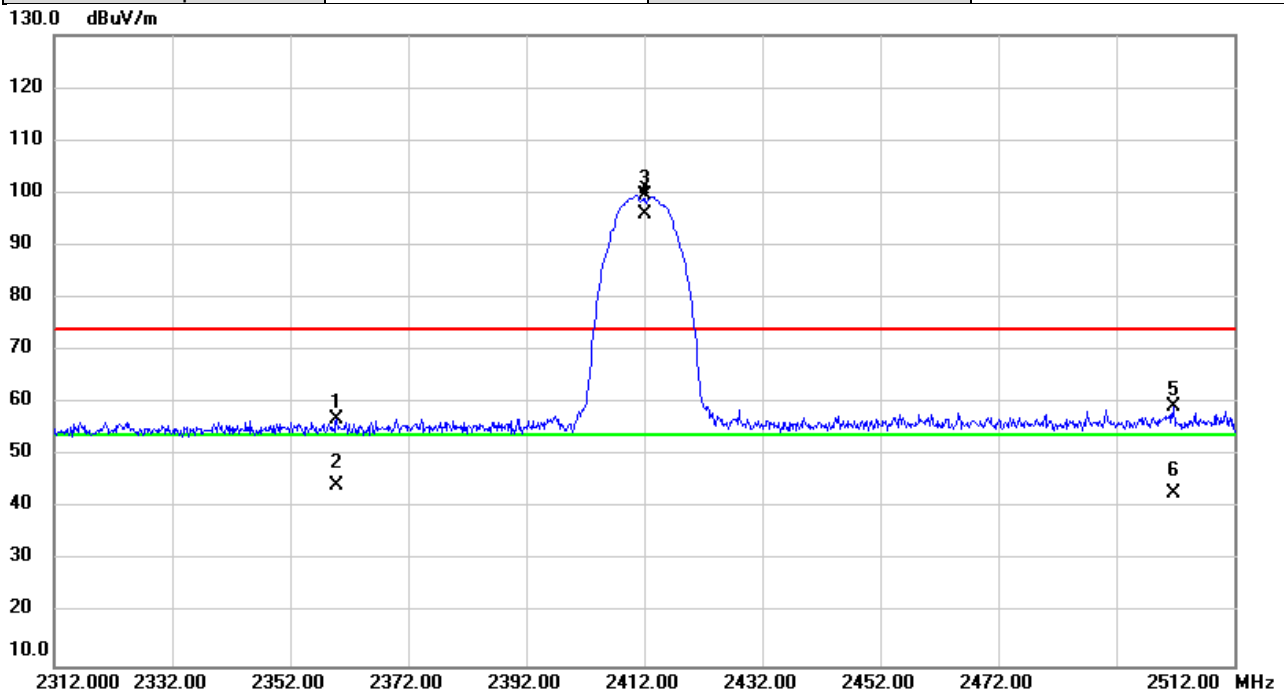
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		94.0523	44.72	-14.20	30.52	43.50	-12.98	peak	
2		156.0353	41.37	-8.35	33.02	43.50	-10.48	peak	
3	*	203.1773	47.12	-10.75	36.37	43.50	-7.13	peak	
4		431.2566	37.84	-4.11	33.73	46.00	-12.27	peak	
5		635.1183	34.11	-0.16	33.95	46.00	-12.05	peak	
6		861.1606	34.13	3.57	37.70	46.00	-8.30	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

Test Mode	IEEE802.11b	Test Date	2021/4/15
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%



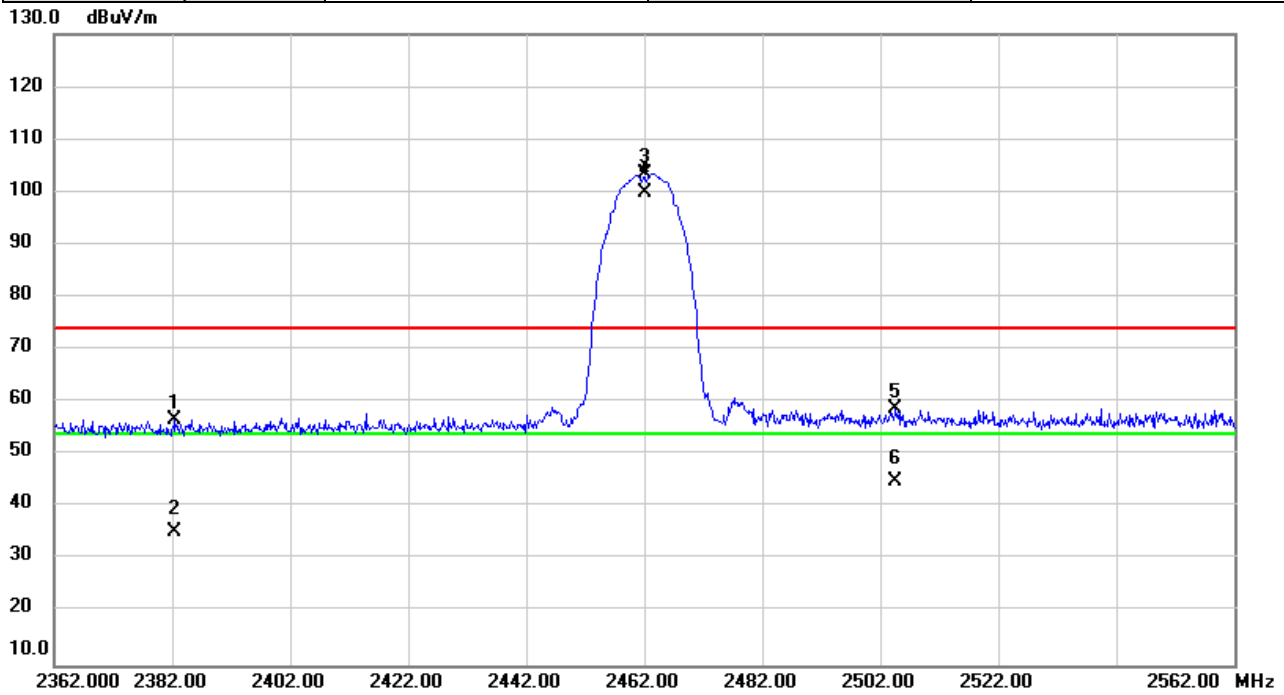
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2359.947	26.29	30.67	56.96	74.00	-17.04	peak	
2		2359.947	13.61	30.67	44.28	54.00	-9.72	AVG	
3	X	2412.000	68.59	30.88	99.47			peak	
4	*	2412.000	65.14	30.88	96.02			AVG	
5		2501.840	27.96	31.24	59.20	74.00	-14.80	peak	
6		2501.840	11.76	31.24	43.00	54.00	-11.00	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11b	Test Date	2021/4/15
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

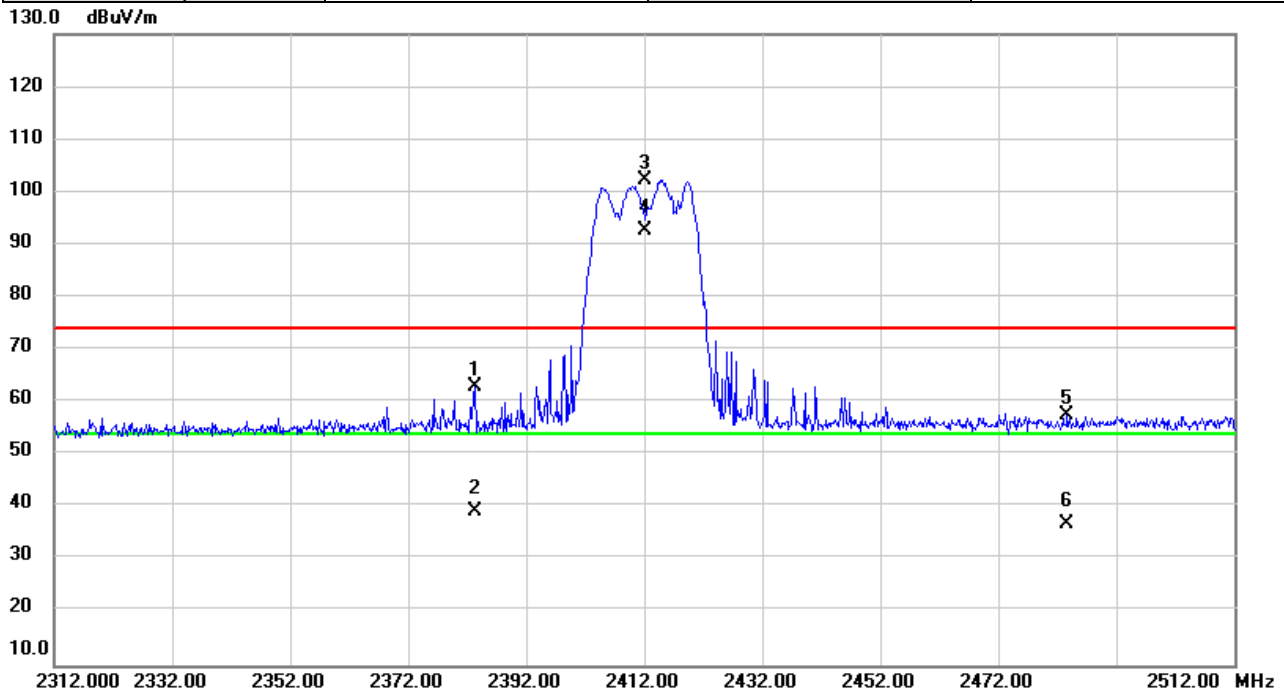


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2382.500	26.03	30.76	56.79	74.00	-17.21	peak	
2		2382.500	4.69	30.76	35.45	54.00	-18.55	AVG	
3	X	2462.000	72.45	31.08	103.53			peak	
4	*	2462.000	68.91	31.08	99.99			AVG	
5		2504.653	27.63	31.24	58.87	74.00	-15.13	peak	
6		2504.653	13.82	31.24	45.06	54.00	-8.94	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11g	Test Date	2021/4/15
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

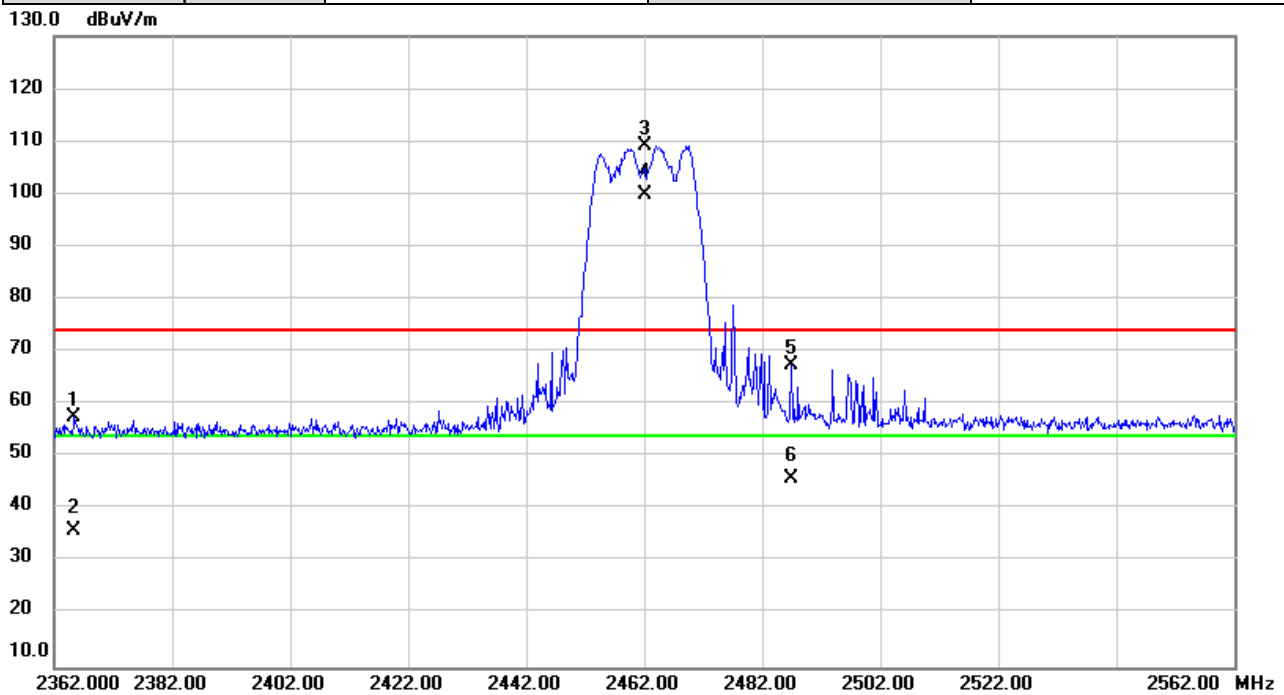


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2383.213	32.30	30.76	63.06	74.00	-10.94	peak	
2		2383.213	8.38	30.76	39.14	54.00	-14.86	AVG	
3	X	2412.000	71.34	30.88	102.22			peak	
4	*	2412.000	61.67	30.88	92.55			AVG	
5		2483.673	26.38	31.16	57.54	74.00	-16.46	peak	
6		2483.673	5.73	31.16	36.89	54.00	-17.11	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11g	Test Date	2021/4/15
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

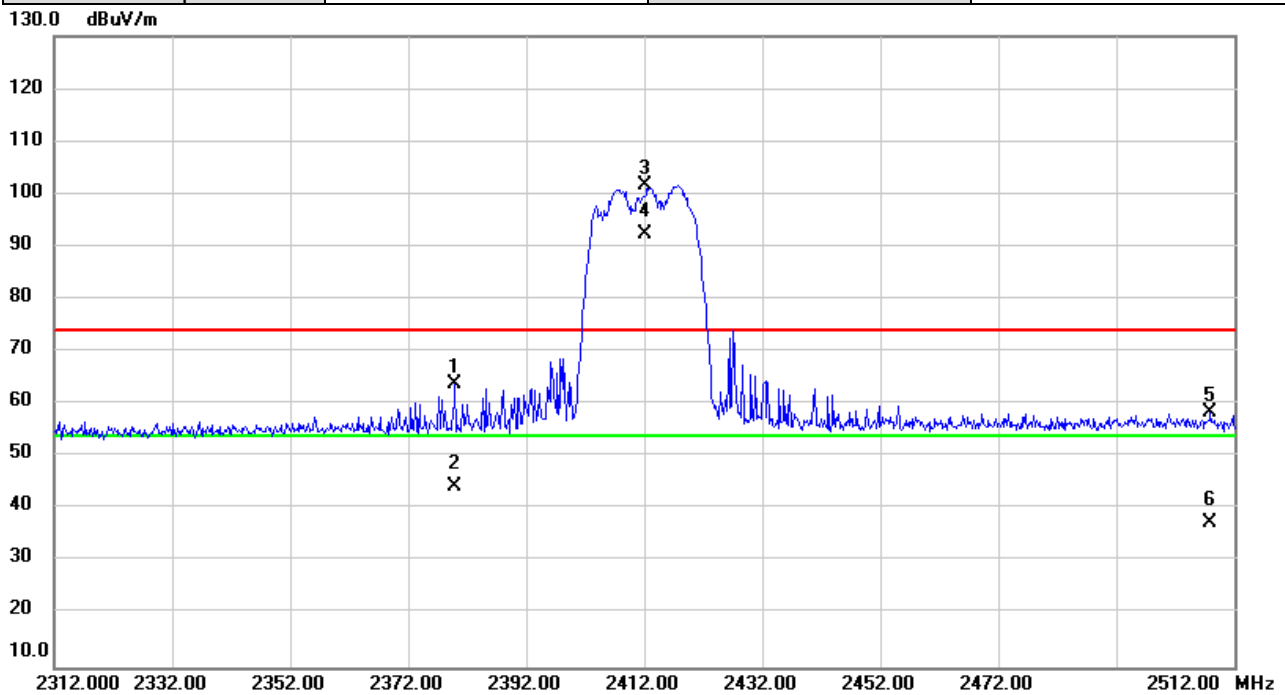


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2365.440	26.78	30.69	57.47	74.00	-16.53	peak	
2		2365.440	5.31	30.69	36.00	54.00	-18.00	AVG	
3	X	2462.000	78.15	31.08	109.23			peak	
4	*	2462.000	68.67	31.08	99.75			AVG	
5		2486.920	36.40	31.18	67.58	74.00	-6.42	peak	
6		2486.920	14.69	31.18	45.87	54.00	-8.13	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT20)	Test Date	2021/4/15
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

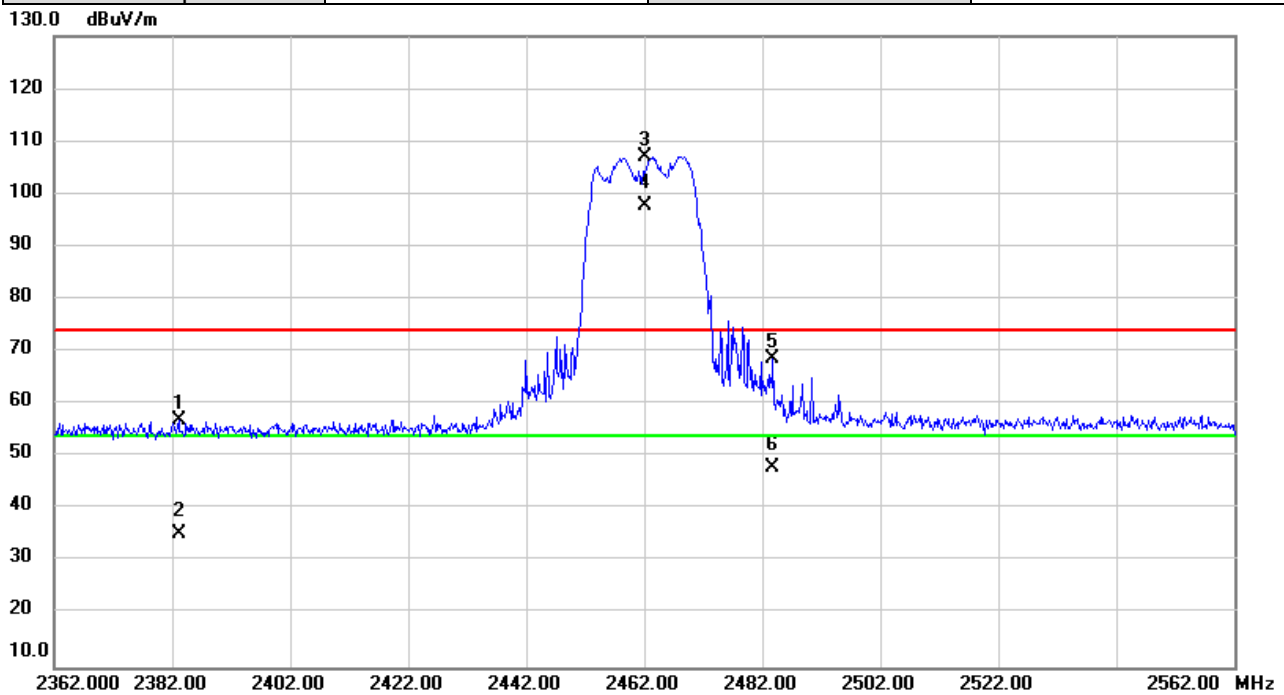


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2379.820	33.13	30.75	63.88	74.00	-10.12	peak	
2		2379.820	13.65	30.75	44.40	54.00	-9.60	AVG	
3	X	2412.000	70.80	30.88	101.68			peak	
4	*	2412.000	61.36	30.88	92.24			AVG	
5		2507.947	27.13	31.27	58.40	74.00	-15.60	peak	
6		2507.947	6.21	31.27	37.48	54.00	-16.52	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT20)	Test Date	2021/4/16
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

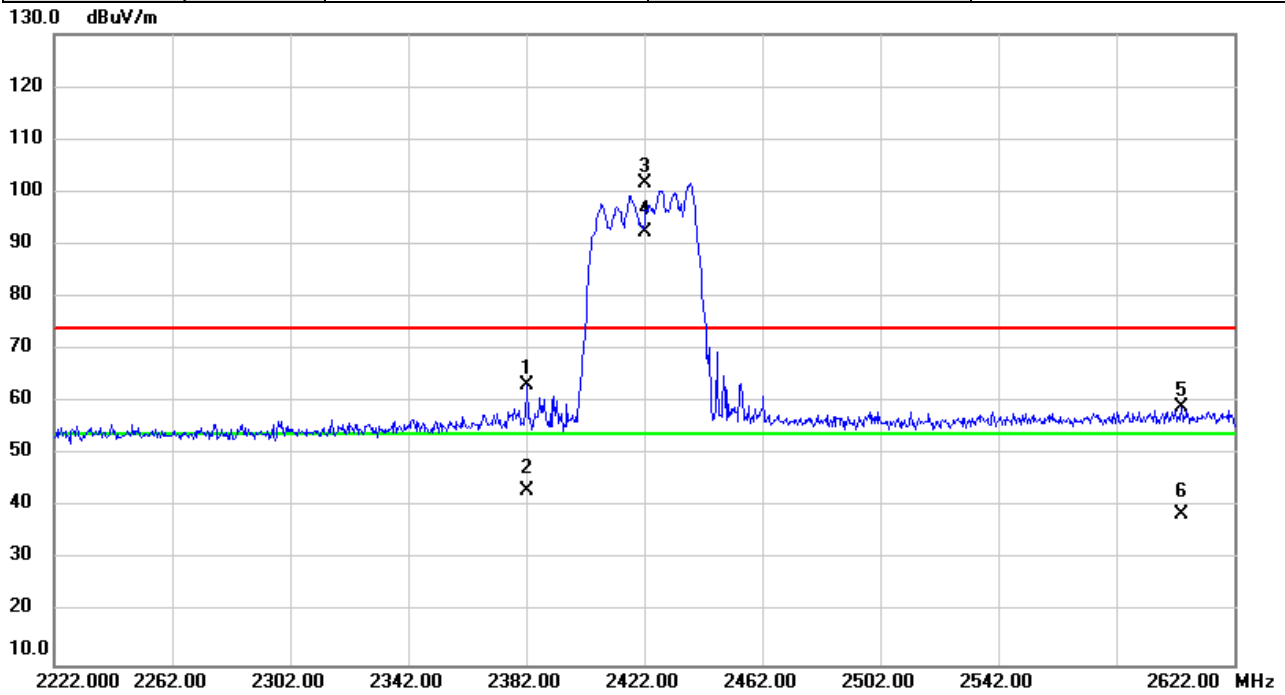


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2383.140	26.28	30.76	57.04	74.00	-16.96	peak	
2		2383.140	4.64	30.76	35.40	54.00	-18.60	AVG	
3	X	2462.000	76.05	31.08	107.13			peak	
4	*	2462.000	66.65	31.08	97.73			AVG	
5		2483.820	37.39	31.16	68.55	74.00	-5.45	peak	
6		2483.820	16.67	31.16	47.83	54.00	-6.17	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT40)	Test Date	2021/4/16
Test Frequency	2422MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

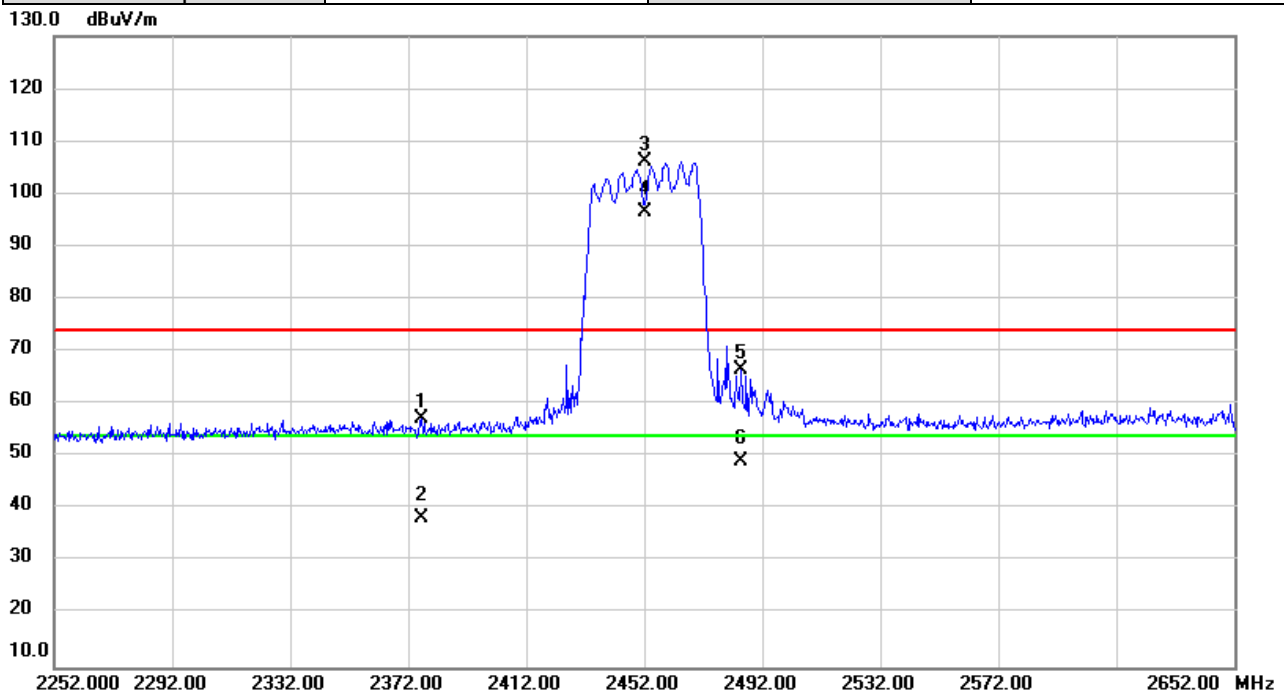


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2382.413	32.37	30.76	63.13	74.00	-10.87	peak	
2		2382.413	12.54	30.76	43.30	54.00	-10.70	AVG	
3	X	2422.000	70.69	30.91	101.60			peak	
4	*	2422.000	61.35	30.91	92.26			AVG	
5		2604.160	27.31	31.66	58.97	74.00	-15.03	peak	
6		2604.160	6.88	31.66	38.54	54.00	-15.46	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT40)	Test Date	2021/4/16
Test Frequency	2452MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

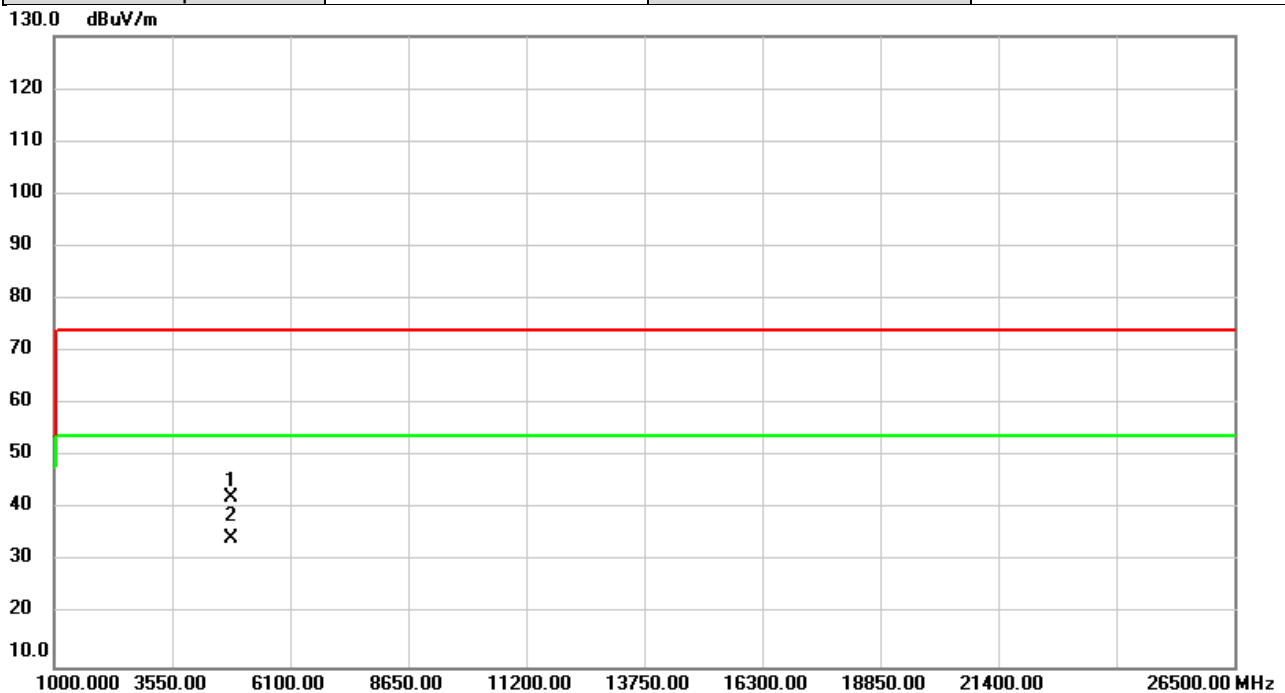


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2376.427	26.43	30.74	57.17	74.00	-16.83	peak	
2		2376.427	7.65	30.74	38.39	54.00	-15.61	AVG	
3	X	2452.000	75.06	31.04	106.10			peak	
4	*	2452.000	65.57	31.04	96.61			AVG	
5		2484.880	35.36	31.17	66.53	74.00	-7.47	peak	
6		2484.880	18.11	31.17	49.28	54.00	-4.72	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11b	Test Date	2021/4/16
Test Frequency	2412MHz	Polarization	Vertical
Temp	22°C	Hum.	61%



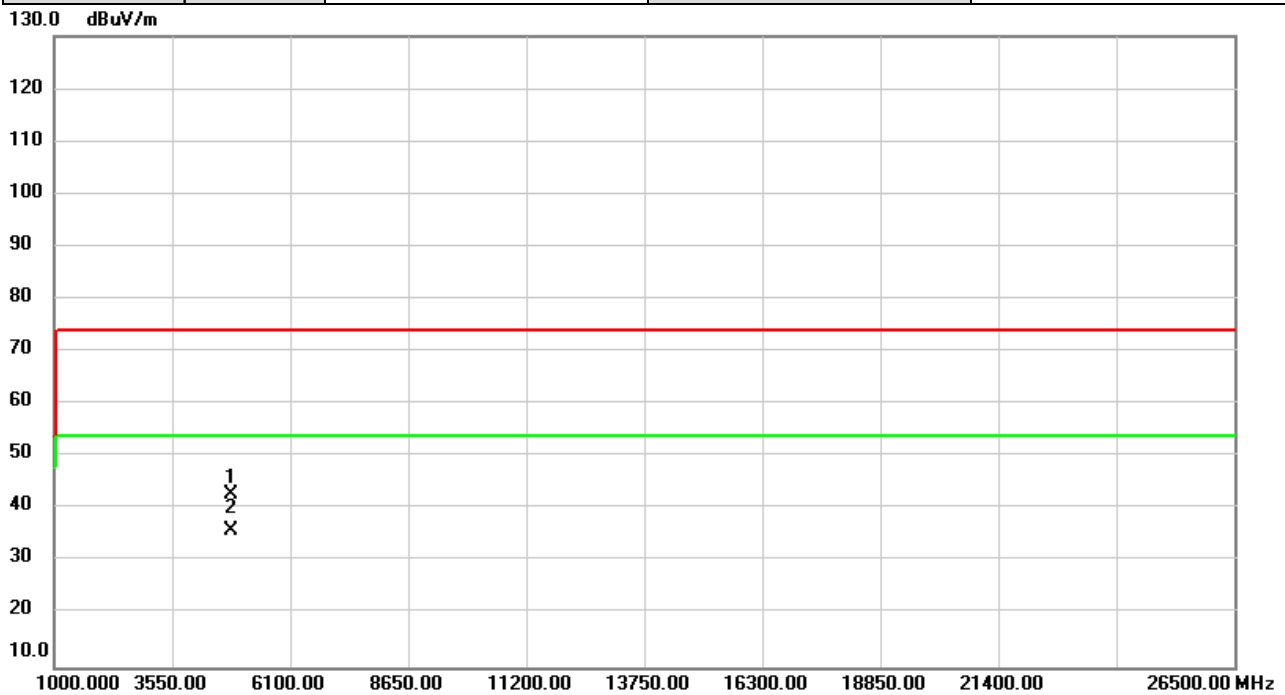
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	52.30	-9.96	42.34	74.00	-31.66	peak	
2	*	4824.000	44.55	-9.96	34.59	54.00	-19.41	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11b	Test Date	2021/4/16
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

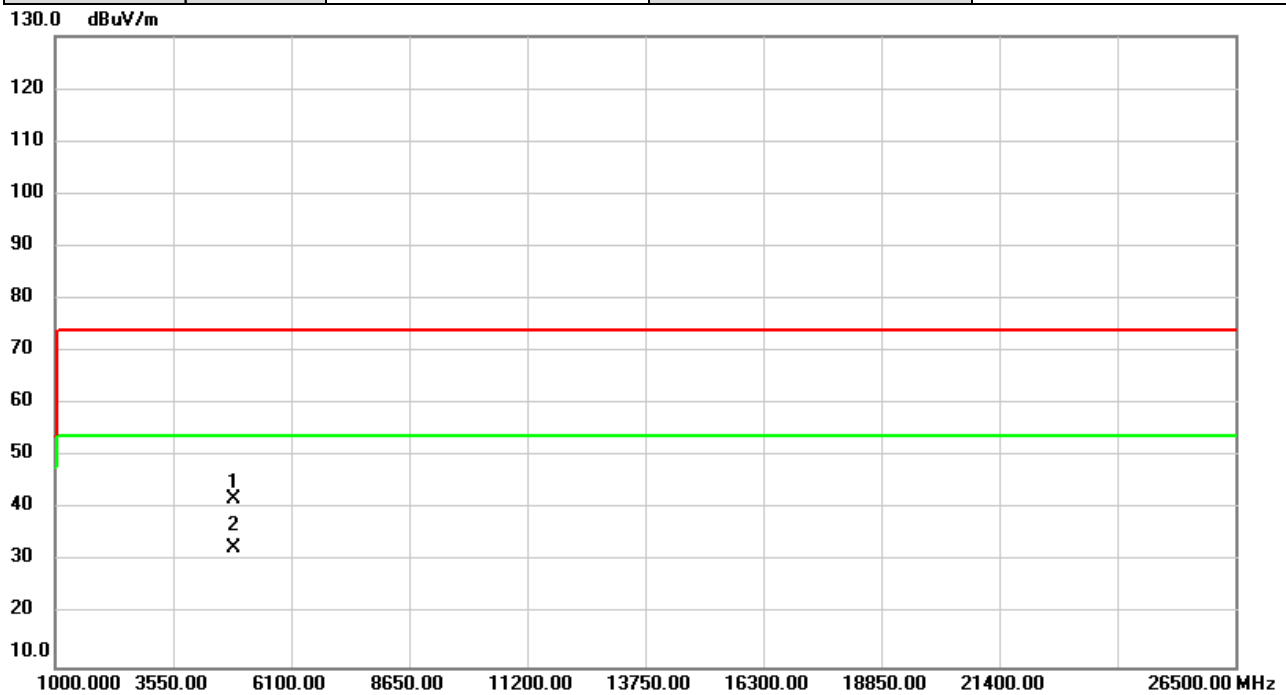


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	52.66	-9.96	42.70	74.00	-31.30	peak	
2	*	4824.000	45.92	-9.96	35.96	54.00	-18.04	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11b	Test Date	2021/4/16
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

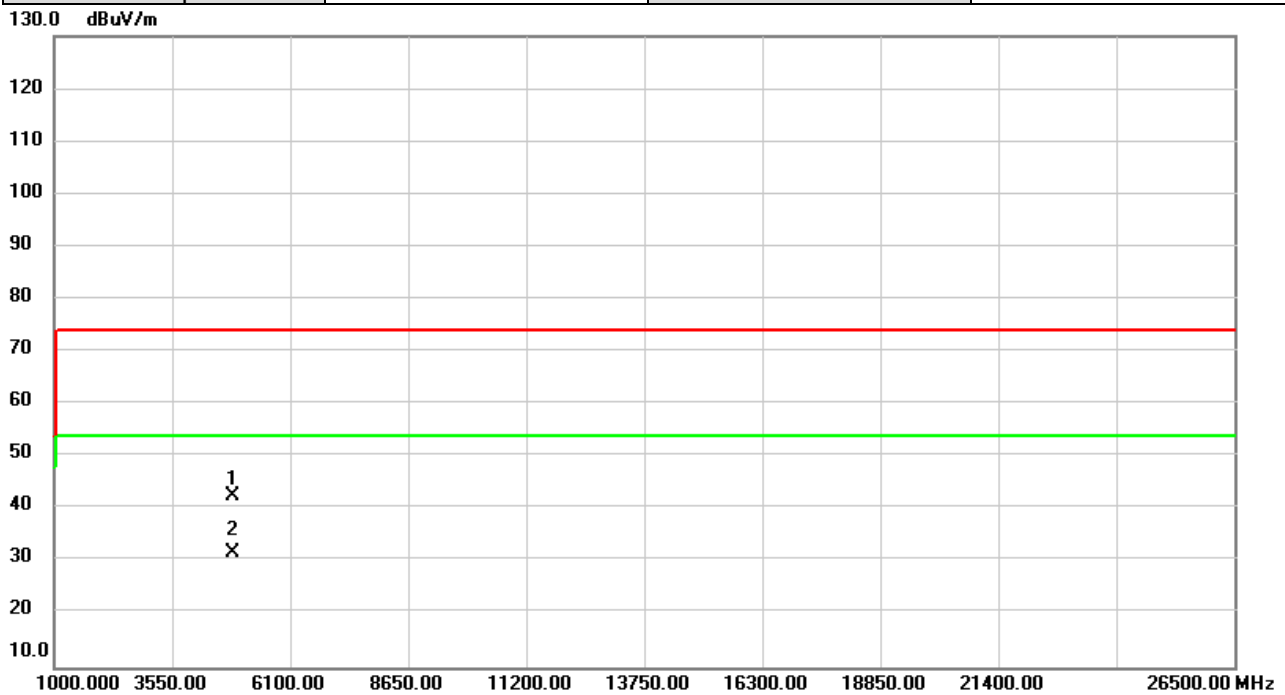


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	51.79	-9.79	42.00	74.00	-32.00	peak	
2	*	4874.000	42.59	-9.79	32.80	54.00	-21.20	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11b	Test Date	2021/4/16
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

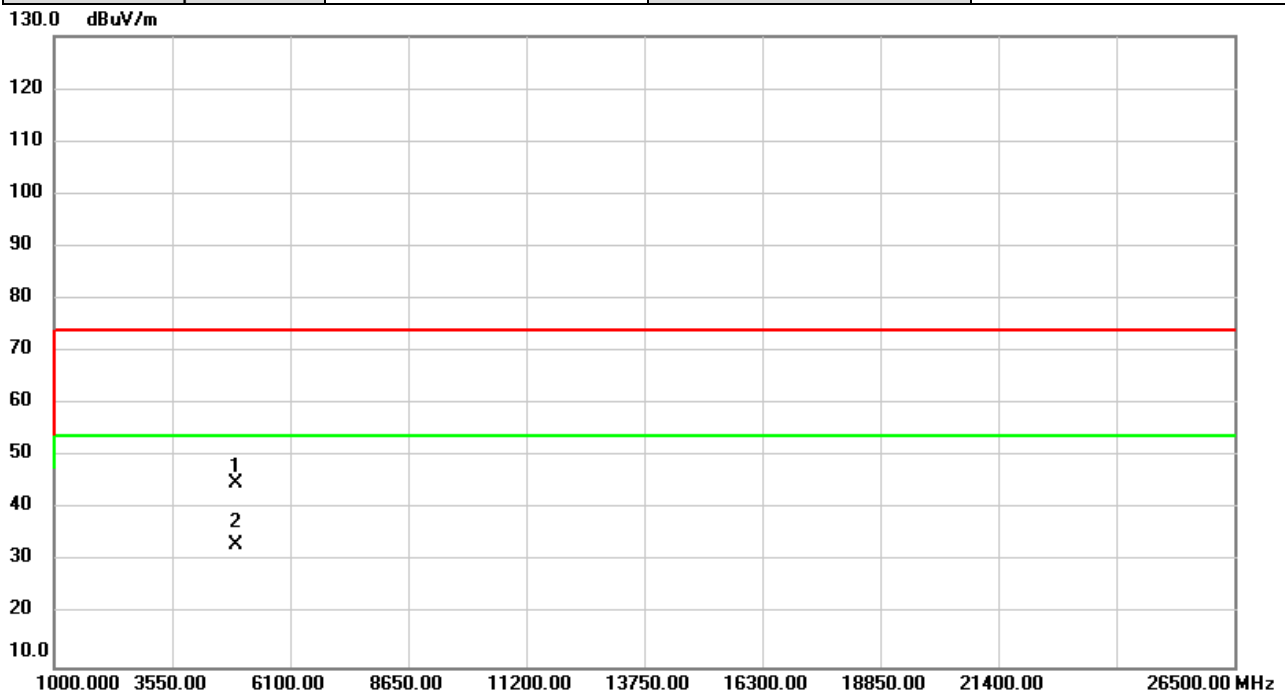


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	52.27	-9.79	42.48	74.00	-31.52	peak	
2	*	4874.000	41.40	-9.79	31.61	54.00	-22.39	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11b	Test Date	2021/4/16
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

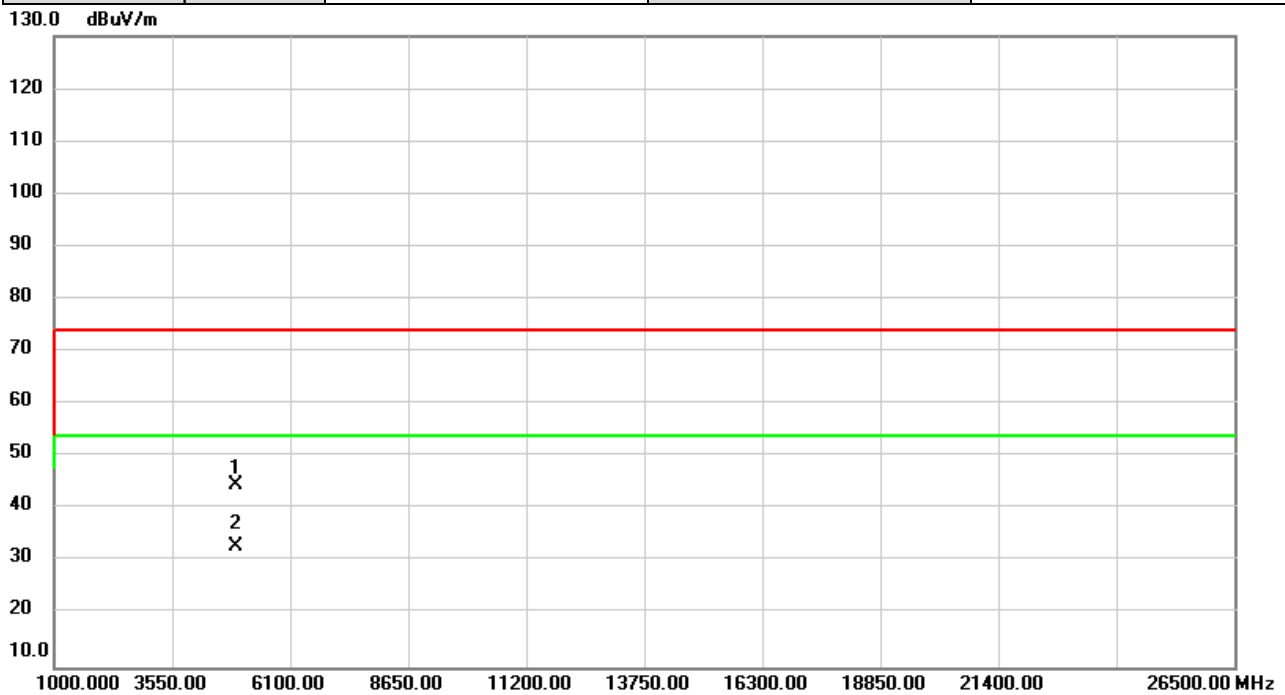


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	54.59	-9.62	44.97	74.00	-29.03	peak	
2	*	4924.000	42.88	-9.62	33.26	54.00	-20.74	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11b	Test Date	2021/4/16
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

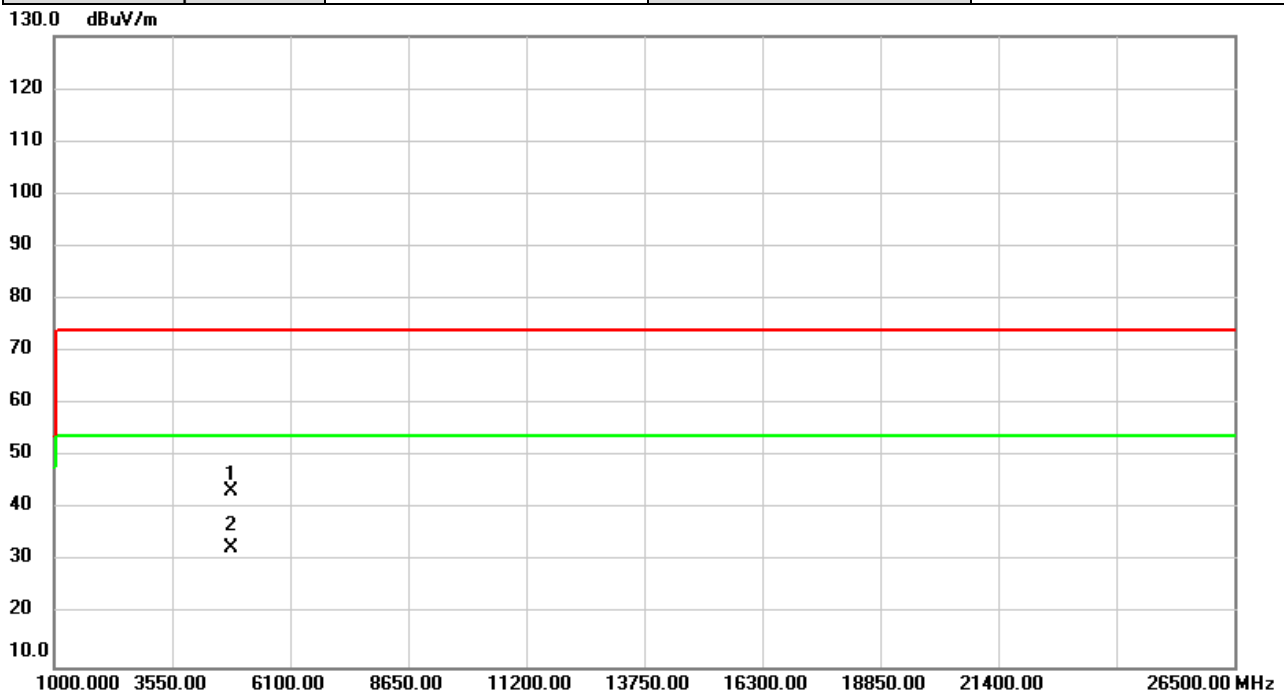


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	54.14	-9.62	44.52	74.00	-29.48	peak	
2	*	4924.000	42.52	-9.62	32.90	54.00	-21.10	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11g	Test Date	2021/4/16
Test Frequency	2412MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

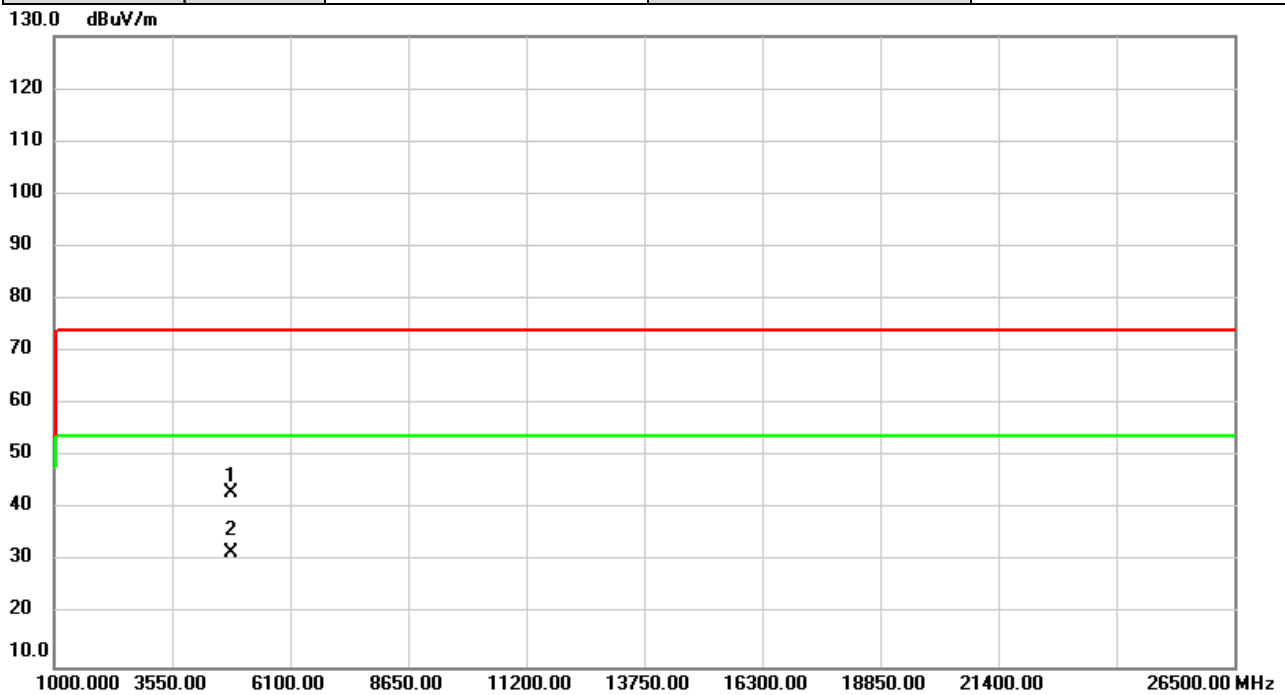


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	53.34	-9.96	43.38	74.00	-30.62	peak	
2	*	4824.000	42.52	-9.96	32.56	54.00	-21.44	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11g	Test Date	2021/4/16
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

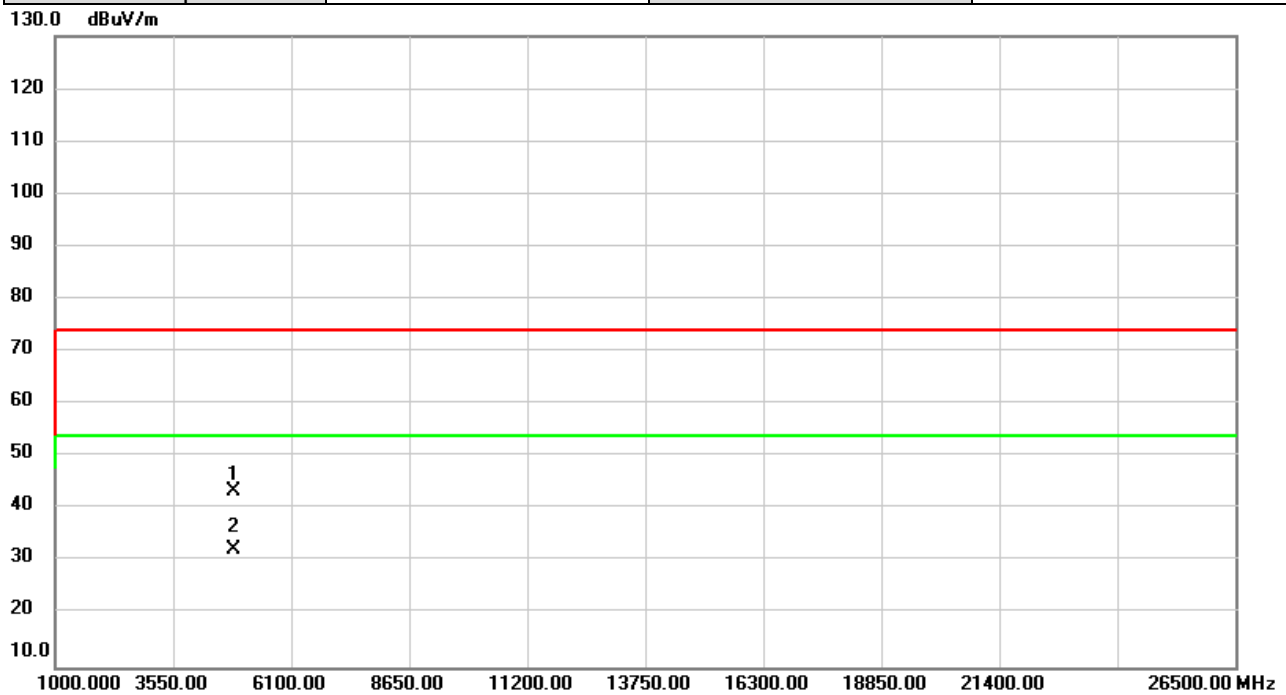


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	52.97	-9.96	43.01	74.00	-30.99	peak	
2	*	4824.000	41.57	-9.96	31.61	54.00	-22.39	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11g	Test Date	2021/4/16
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

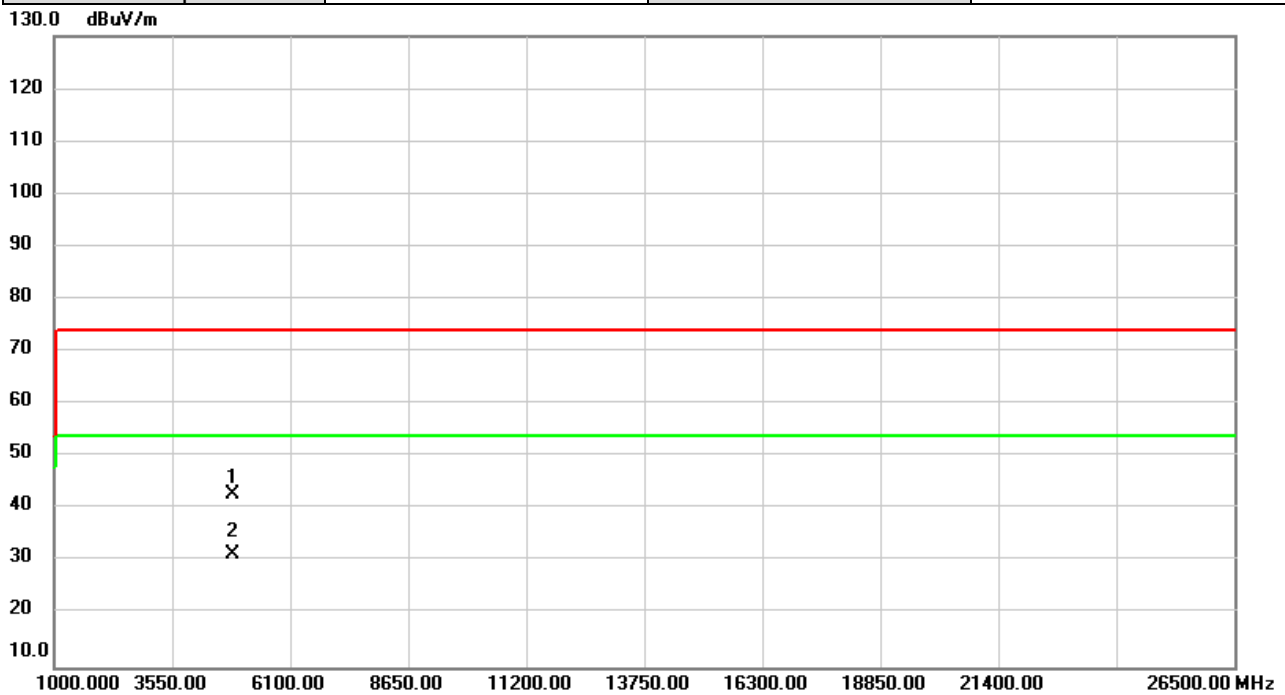


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	53.38	-9.79	43.59	74.00	-30.41	peak	
2	*	4874.000	42.12	-9.79	32.33	54.00	-21.67	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11g	Test Date	2021/4/16
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

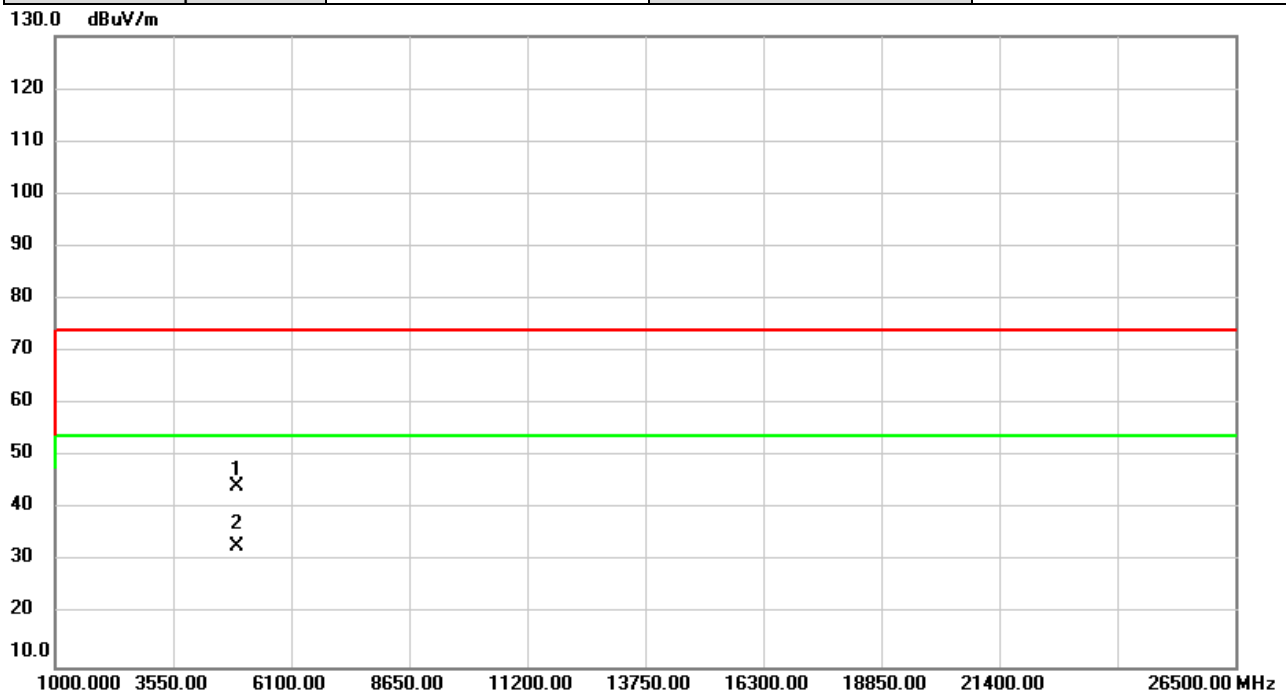


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	52.66	-9.79	42.87	74.00	-31.13	peak	
2	*	4874.000	41.35	-9.79	31.56	54.00	-22.44	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11g	Test Date	2021/4/16
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

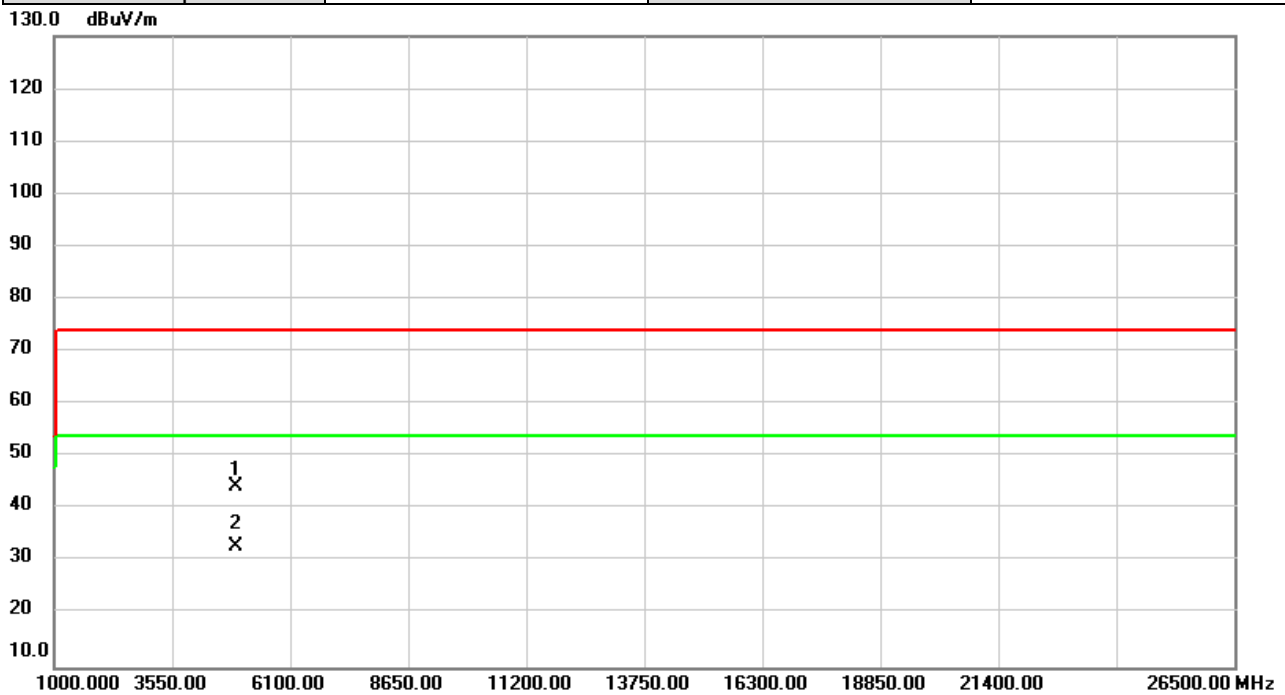


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	54.12	-9.62	44.50	74.00	-29.50	peak	
2	*	4924.000	42.65	-9.62	33.03	54.00	-20.97	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11g	Test Date	2021/4/16
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

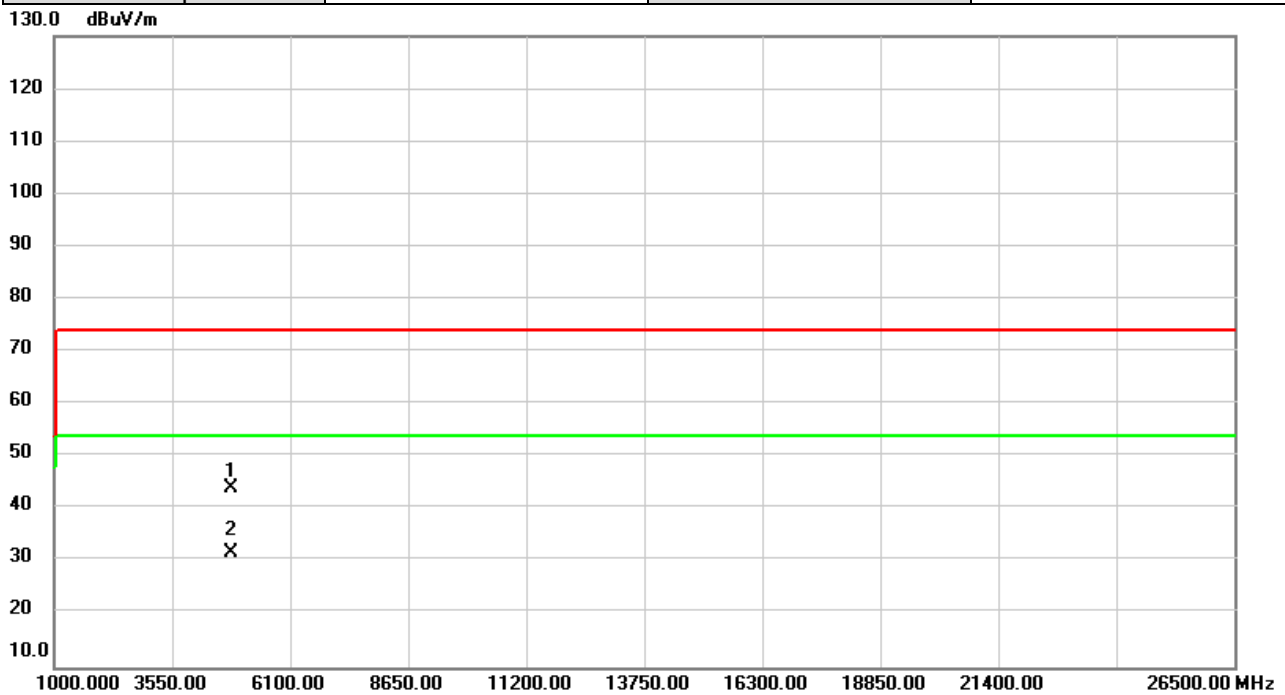


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	53.93	-9.62	44.31	74.00	-29.69	peak	
2	*	4924.000	42.57	-9.62	32.95	54.00	-21.05	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT20)	Test Date	2021/4/16
Test Frequency	2412MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

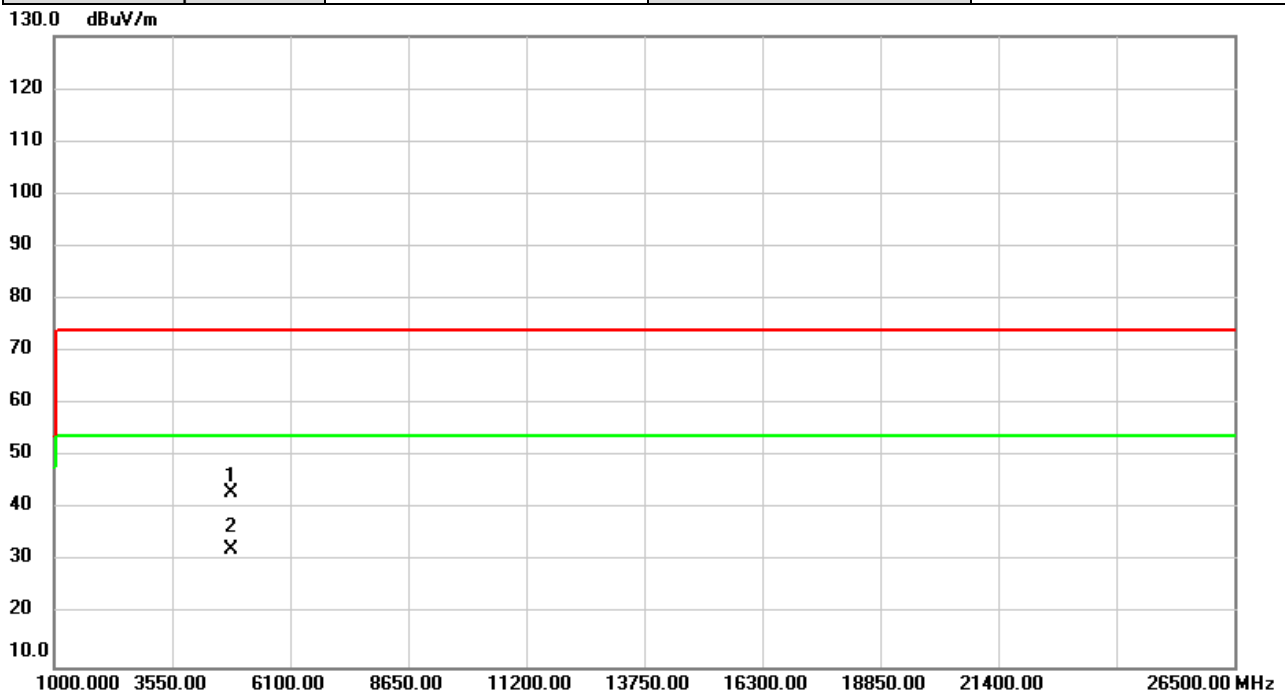


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	53.89	-9.96	43.93	74.00	-30.07	peak	
2	*	4824.000	41.57	-9.96	31.61	54.00	-22.39	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT20)	Test Date	2021/4/16
Test Frequency	2412MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

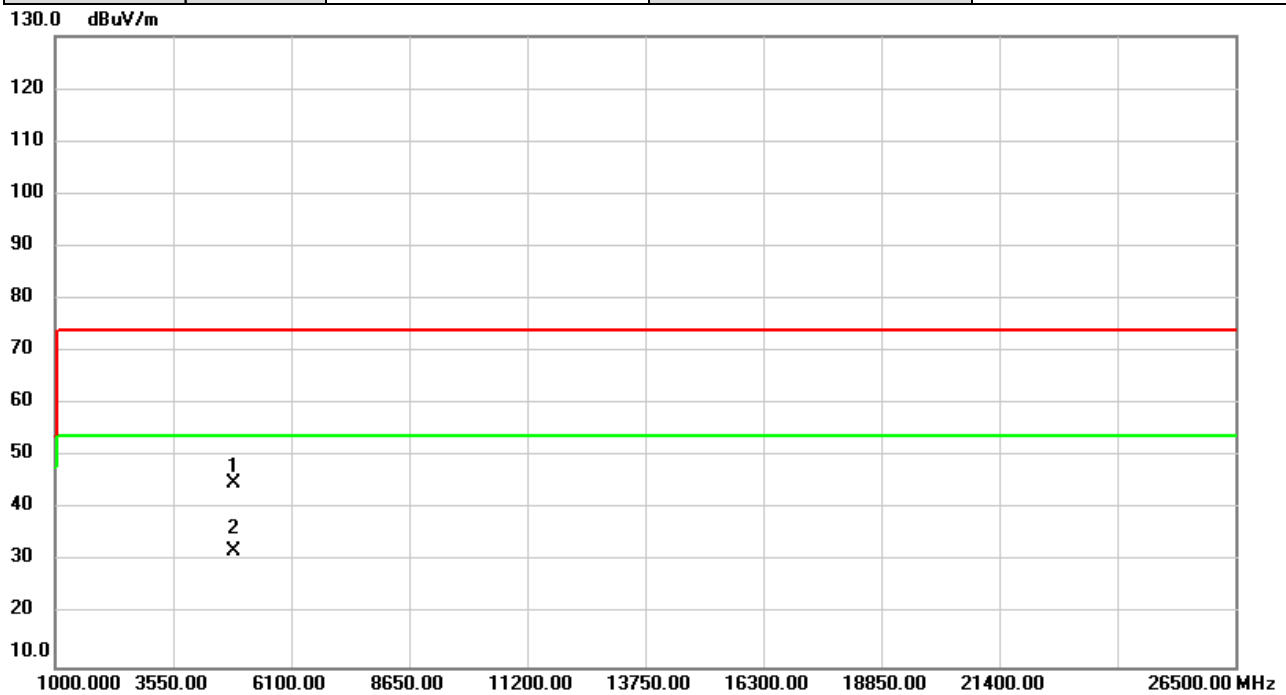


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	53.00	-9.96	43.04	74.00	-30.96	peak	
2	*	4824.000	42.31	-9.96	32.35	54.00	-21.65	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT20)	Test Date	2021/4/16
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

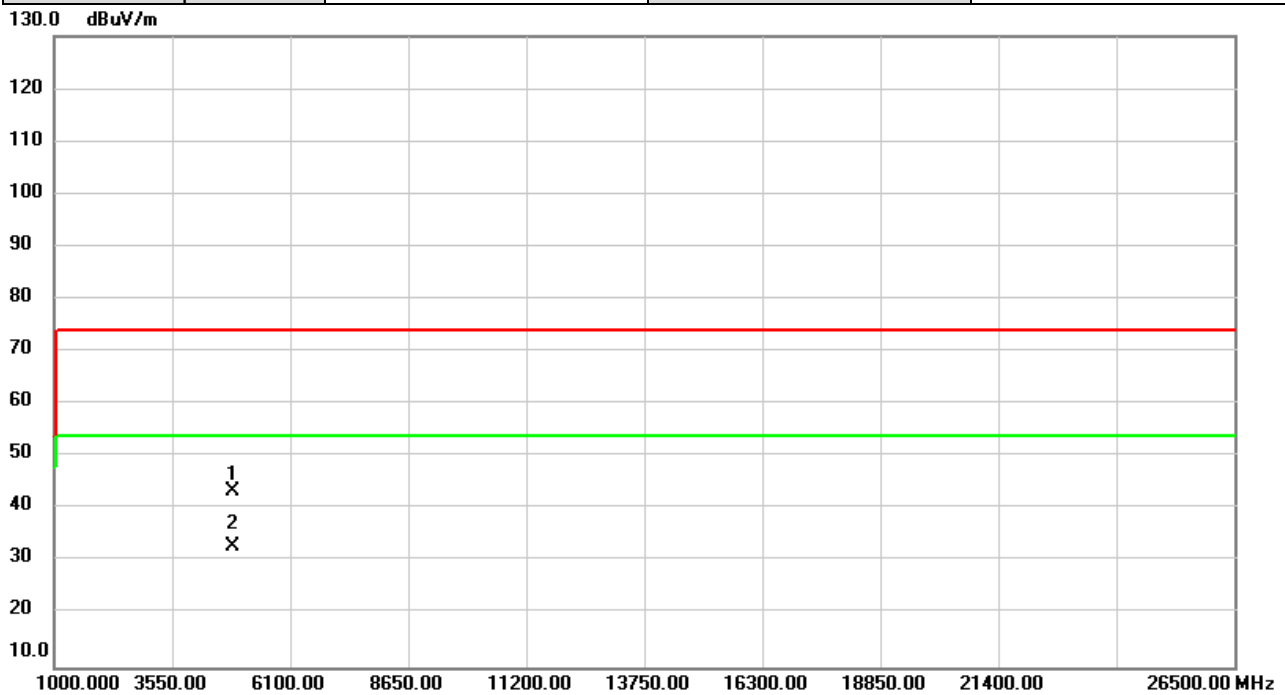


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	54.71	-9.79	44.92	74.00	-29.08	peak	
2	*	4874.000	41.91	-9.79	32.12	54.00	-21.88	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT20)	Test Date	2021/4/16
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

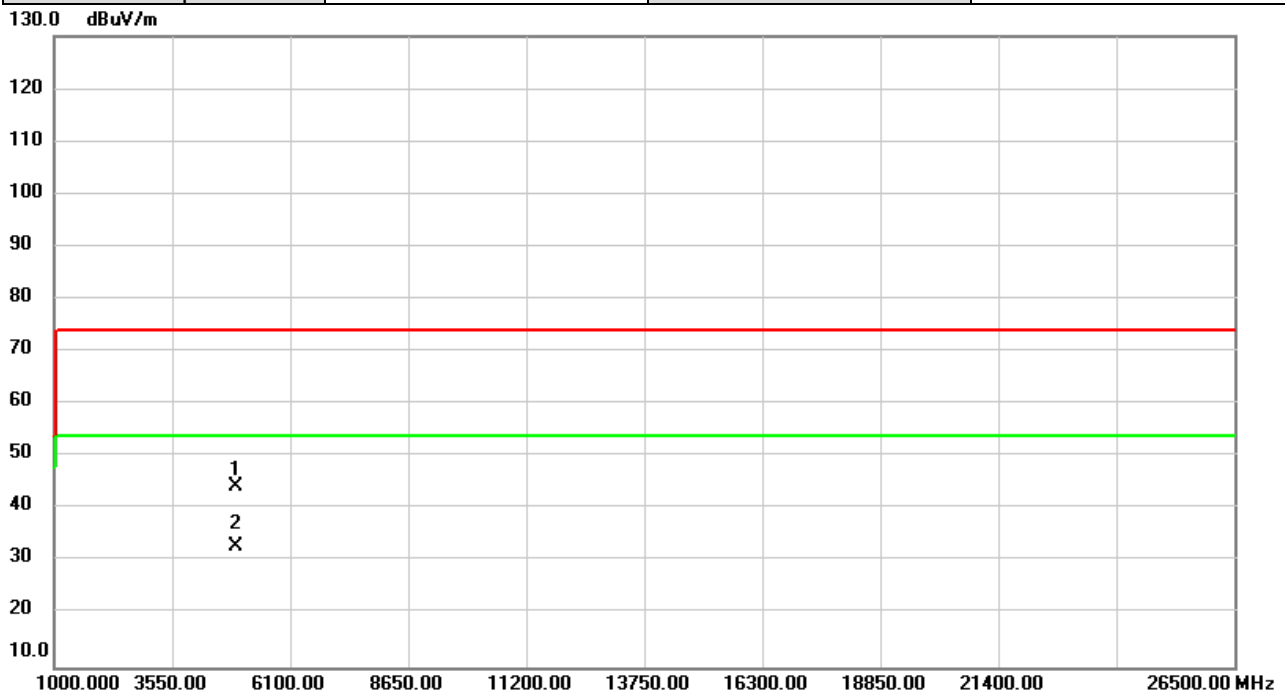


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	53.28	-9.79	43.49	74.00	-30.51	peak	
2	*	4874.000	42.67	-9.79	32.88	54.00	-21.12	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT20)	Test Date	2021/4/16
Test Frequency	2462MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

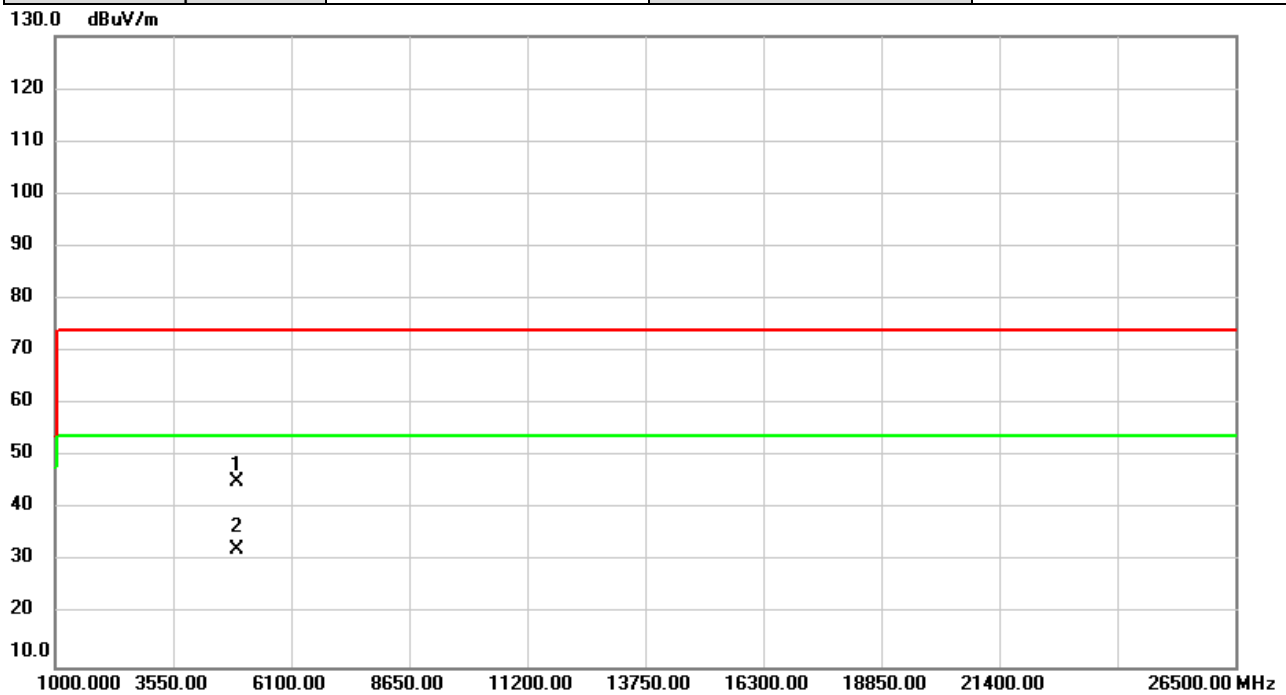


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	53.98	-9.62	44.36	74.00	-29.64	peak	
2	*	4924.000	42.53	-9.62	32.91	54.00	-21.09	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT20)	Test Date	2021/4/16
Test Frequency	2462MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

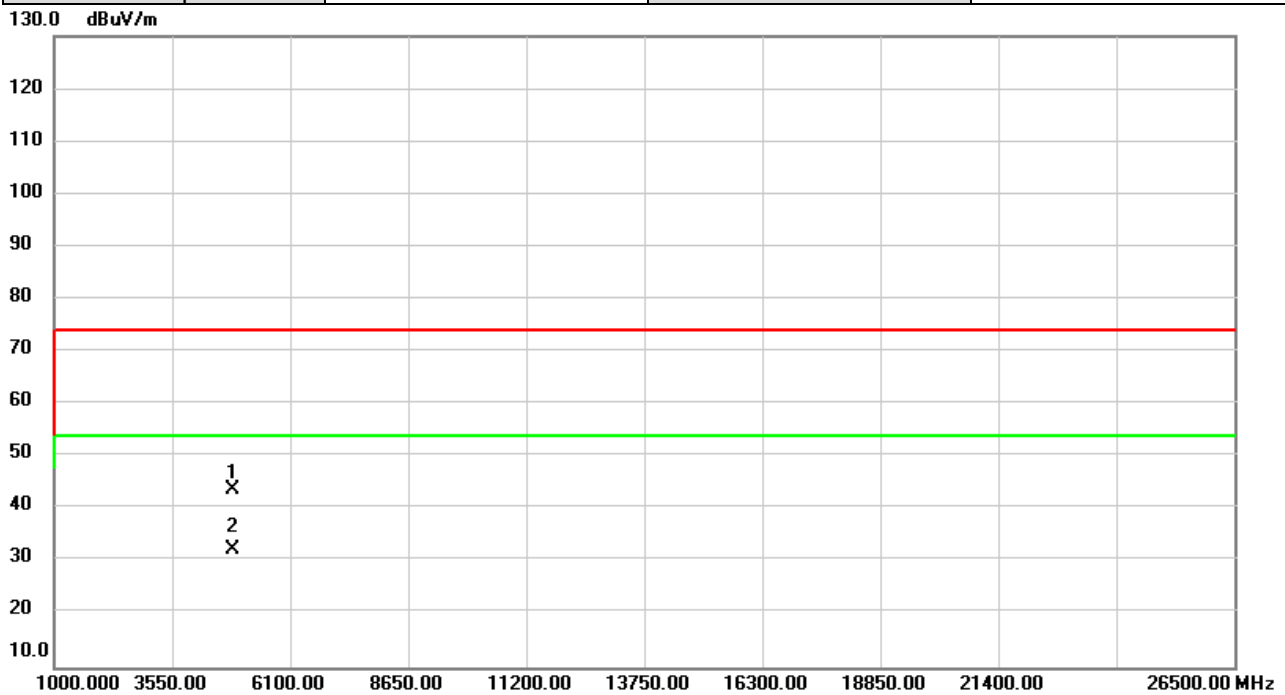


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	54.73	-9.62	45.11	74.00	-28.89	peak	
2	*	4924.000	41.82	-9.62	32.20	54.00	-21.80	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT40)	Test Date	2021/4/16
Test Frequency	2422MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

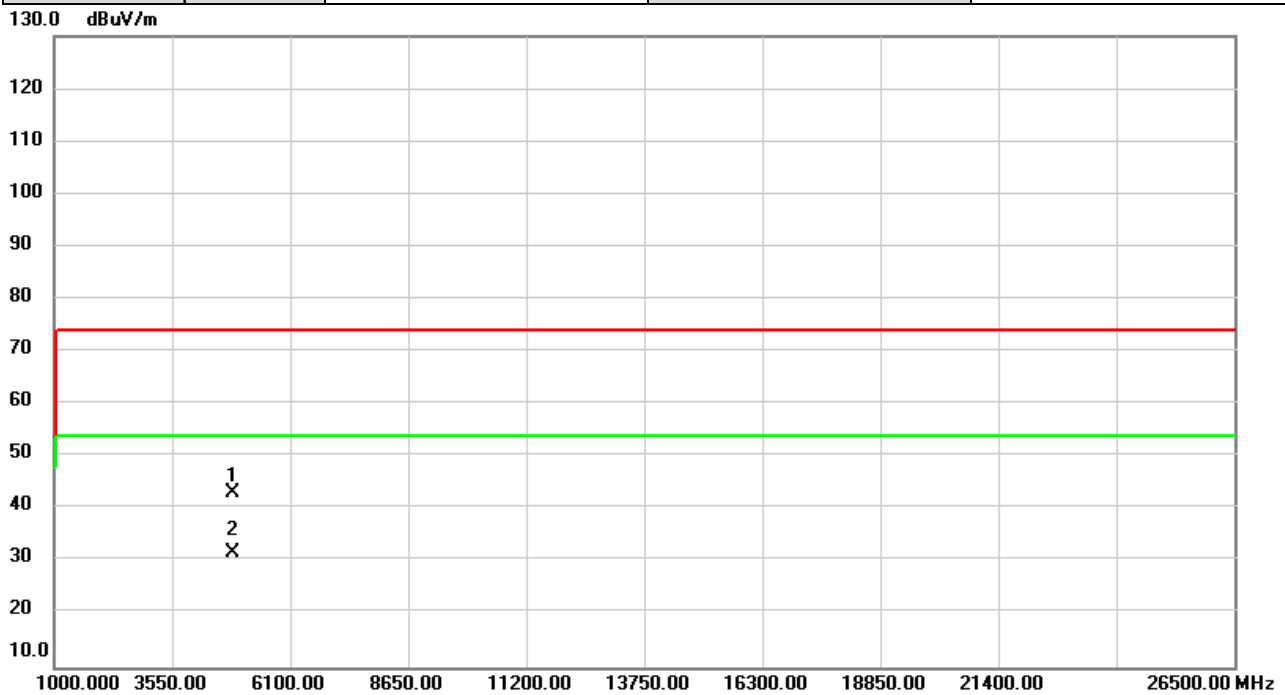


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	53.61	-9.89	43.72	74.00	-30.28	peak	
2	*	4844.000	42.29	-9.89	32.40	54.00	-21.60	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT40)	Test Date	2021/4/16
Test Frequency	2422MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

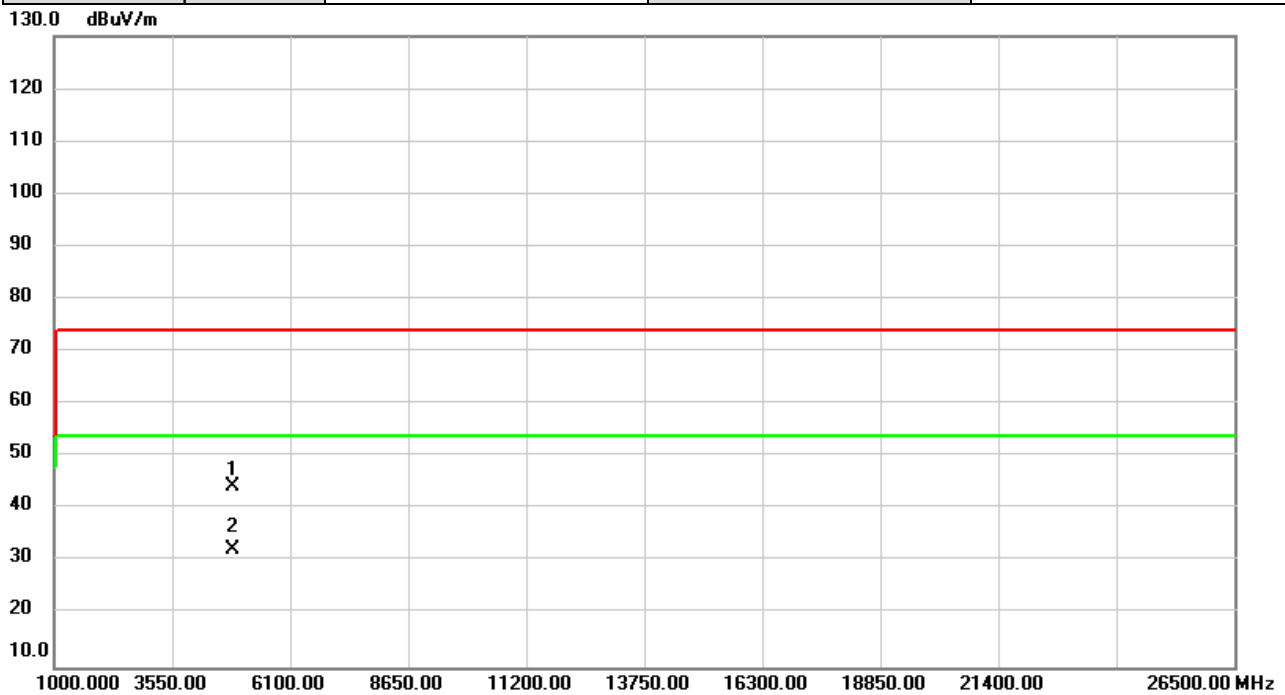


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	53.12	-9.89	43.23	74.00	-30.77	peak	
2	*	4844.000	41.62	-9.89	31.73	54.00	-22.27	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT40)	Test Date	2021/4/16
Test Frequency	2437MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

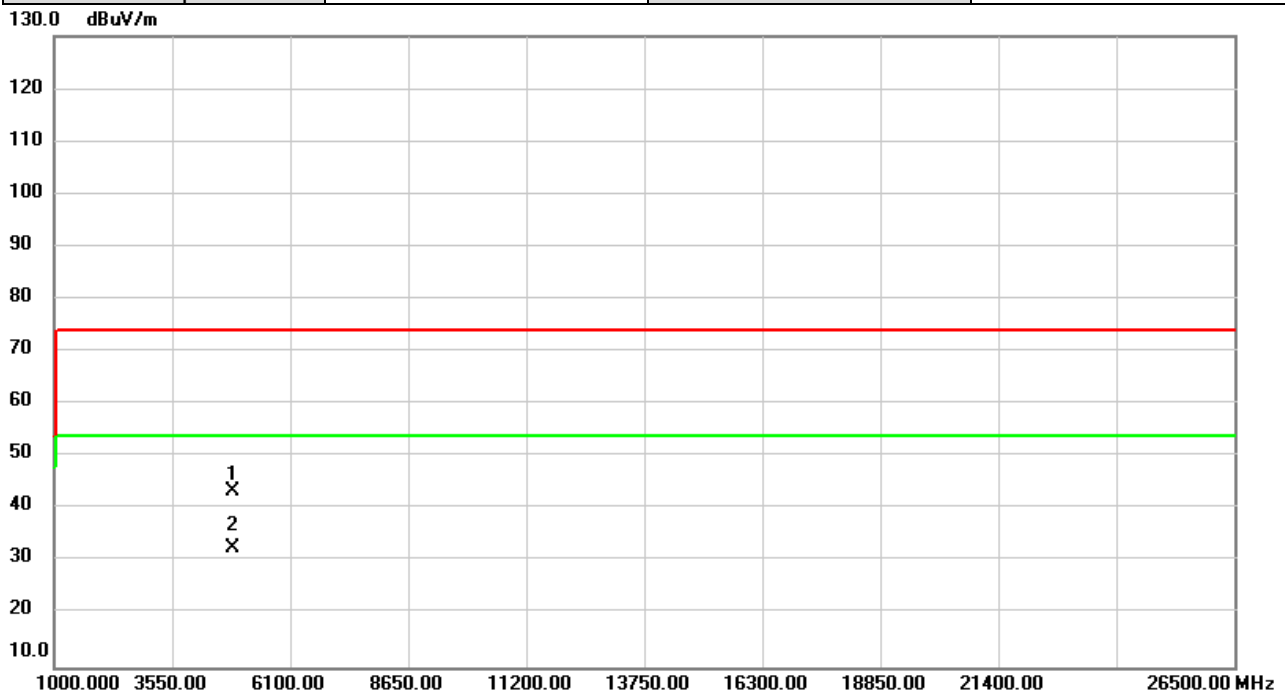


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	54.08	-9.79	44.29	74.00	-29.71	peak	
2	*	4874.000	42.09	-9.79	32.30	54.00	-21.70	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT40)	Test Date	2021/4/16
Test Frequency	2437MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%

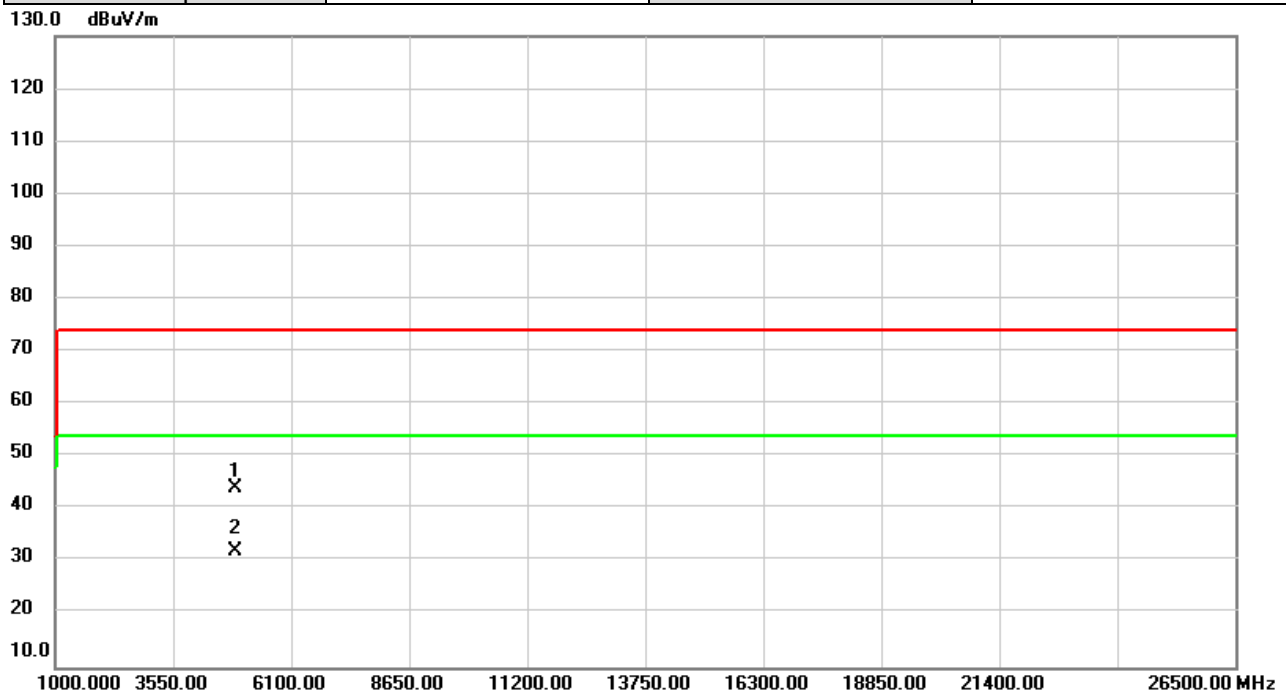


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	53.29	-9.79	43.50	74.00	-30.50	peak	
2	*	4874.000	42.55	-9.79	32.76	54.00	-21.24	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT40)	Test Date	2021/4/16
Test Frequency	2452MHz	Polarization	Vertical
Temp	22°C	Hum.	61%

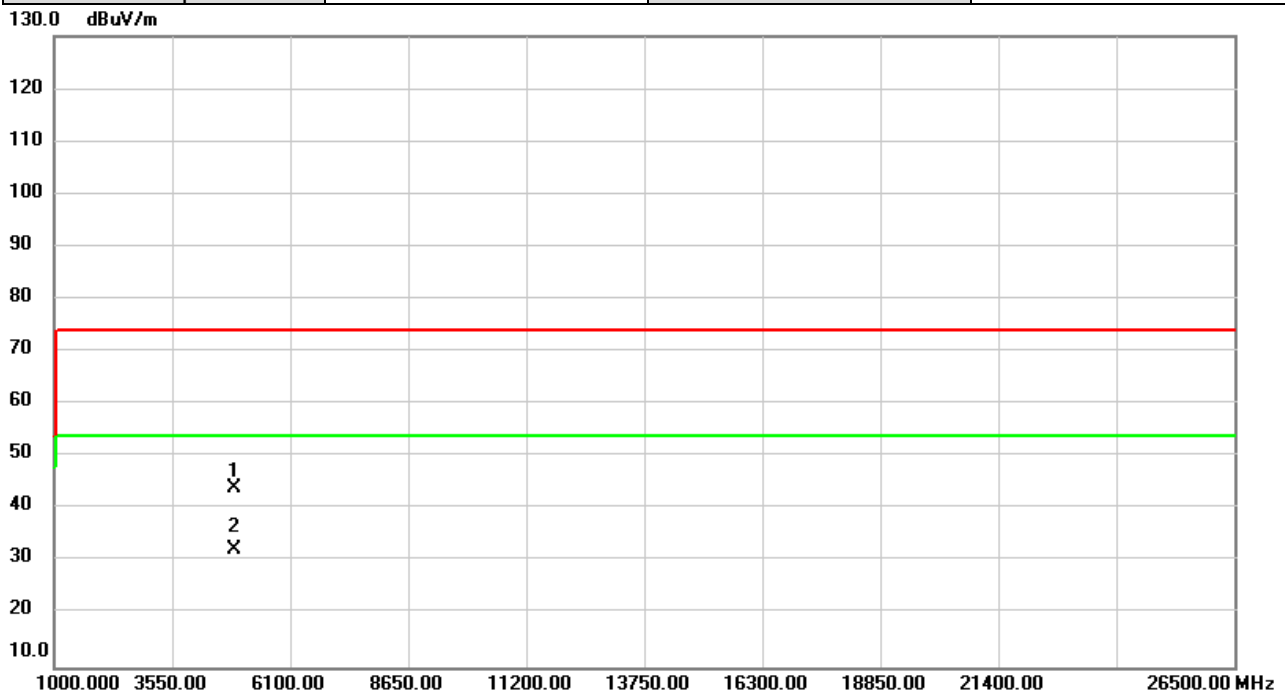


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	53.71	-9.69	44.02	74.00	-29.98	peak	
2	*	4904.000	41.73	-9.69	32.04	54.00	-21.96	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE802.11n(HT40)	Test Date	2021/4/16
Test Frequency	2452MHz	Polarization	Horizontal
Temp	22°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	53.88	-9.69	44.19	74.00	-29.81	peak	
2	*	4904.000	42.10	-9.69	32.41	54.00	-21.59	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D OUTPUT POWER

Test Mode	IEEE 802.11b_ANT 1	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	15.72	0.0373	30.00	1.0000	Complies
2437	15.54	0.0358	30.00	1.0000	Complies
2462	15.61	0.0364	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_ANT 2	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	13.61	0.0230	30.00	1.0000	Complies
2437	13.82	0.0241	30.00	1.0000	Complies
2462	13.86	0.0243	30.00	1.0000	Complies

Test Mode	IEEE 802.11b_Total	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	17.80	0.0603	30.00	1.0000	Complies
2437	17.77	0.0599	30.00	1.0000	Complies
2462	17.83	0.0607	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_ANT 1	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	22.22	0.1667	30.00	1.0000	Complies
2437	22.11	0.1626	30.00	1.0000	Complies
2462	22.59	0.1816	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_ANT 2	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.13	0.1030	30.00	1.0000	Complies
2437	21.05	0.1274	30.00	1.0000	Complies
2462	20.48	0.1117	30.00	1.0000	Complies

Test Mode	IEEE 802.11g_Total	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	24.31	0.2698	30.00	1.0000	Complies
2437	24.62	0.2899	30.00	1.0000	Complies
2462	24.67	0.2932	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_ANT 1	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	22.71	0.1866	30.00	1.0000	Complies
2437	22.62	0.1828	30.00	1.0000	Complies
2462	21.21	0.1321	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_ANT 2	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.89	0.1227	30.00	1.0000	Complies
2437	20.33	0.1079	30.00	1.0000	Complies
2462	20.57	0.1140	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT20)_Total	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	24.90	0.3094	30.00	1.0000	Complies
2437	24.63	0.2907	30.00	1.0000	Complies
2462	23.91	0.2462	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_ANT 1	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	22.14	0.1637	30.00	1.0000	Complies
2437	22.81	0.1910	30.00	1.0000	Complies
2452	22.64	0.1837	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_ANT 2	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	20.93	0.1239	30.00	1.0000	Complies
2437	20.56	0.1138	30.00	1.0000	Complies
2452	20.34	0.1081	30.00	1.0000	Complies

Test Mode	IEEE 802.11n (HT40)_Total	Tested Date	2021/4/23
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	24.59	0.2876	30.00	1.0000	Complies
2437	24.84	0.3047	30.00	1.0000	Complies
2452	24.65	0.2918	30.00	1.0000	Complies

End of Test Report