

FCC Radio Test Report

FCC ID: 2ALZB-AG1103

Report No. : BTL-FCCP-3-2102T091A
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 CFR Title 47, Part 15, 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

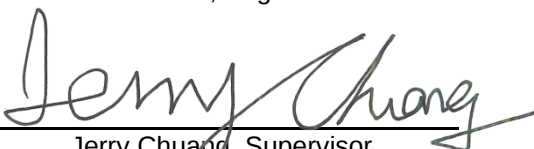
Date of Receipt : 2022/8/9
Date of Test : 2022/8/9 ~ 2023/1/18
Issued Date : 2023/2/1

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

Prepared by


Eric Lee, Engineer

Approved by


Jerry Chuang, Supervisor



BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

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.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

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.

CONTENTS

1	SUMMARY OF TEST RESULTS	5
1.1	TEST FACILITY	6
1.2	MEASUREMENT UNCERTAINTY	6
1.3	TEST ENVIRONMENT CONDITIONS	6
1.4	DUTY CYCLE	7
2	GENERAL INFORMATION	8
2.1	DESCRIPTION OF EUT	8
2.2	TEST MODES	9
2.3	BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	10
2.4	SUPPORT UNITS	11
3	AC POWER LINE CONDUCTED EMISSIONS TEST	12
3.1	LIMIT	12
3.2	TEST PROCEDURE	12
3.3	DEVIATION FROM TEST STANDARD	12
3.4	TEST SETUP	13
3.5	TEST RESULT	13
4	RADIATED EMISSIONS TEST	14
4.1	LIMIT	14
4.2	TEST PROCEDURE	15
4.3	DEVIATION FROM TEST STANDARD	15
4.4	TEST SETUP	16
4.5	EUT OPERATING CONDITIONS	18
4.6	TEST RESULT – BELOW 30 MHZ	18
4.7	TEST RESULT – 30 MHZ TO 1 GHZ	18
4.8	TEST RESULT – ABOVE 1 GHZ	18
5	LIST OF MEASURING EQUIPMENTS	19
6	EUT TEST PHOTO	20
7	EUT PHOTOS	20
APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS	21
APPENDIX B	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ	26
APPENDIX C	RADIATED EMISSIONS - ABOVE 1 GHZ	29

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2102T091A	R00	Original Report.	2022/11/23	Invalid
BTL-FCCP-3-2102T091A	R01	Revised report to address TCB's comments.	2022/12/14	Invalid
BTL-FCCP-3-2102T091A	R02	Revised report to address TCB's comments.	2023/1/11	Invalid
BTL-FCCP-3-2102T091A	R03	Revised report to address TCB's comments.	2023/2/1	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

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	-----	Pass	NOTE(5)

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: Unity27), Product name: Display Unity 27").
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.
- (5) After evaluated, the output power within the tune-up power tolerance.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☒ C05 ☐ SR10 ☐ SR11

No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☒ SR05

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☐ C06 ☒ CB21 ☐ CB22

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)
CB21	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

NOTE:

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

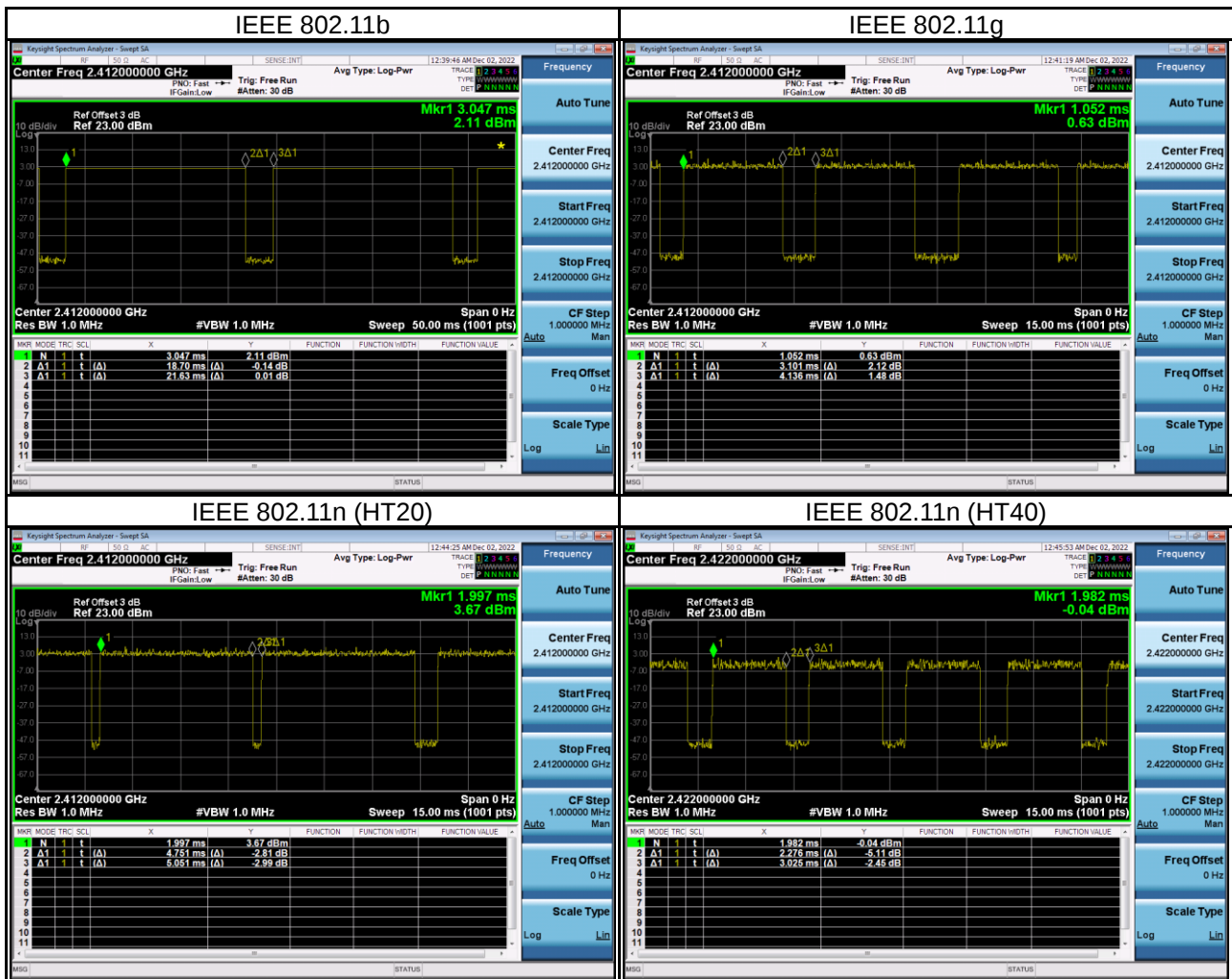
1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	21 °C, 51 %	AC 120V	Paul Shen
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang

1.4 DUTY CYCLE

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

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11b	18.700	1	18.700	21.630	86.45%	0.63
IEEE 802.11g	3.101	1	3.101	4.136	74.98%	1.25
IEEE 802.11n (HT20)	4.751	1	4.751	5.051	94.06%	0.27
IEEE 802.11n (HT40)	2.276	1	2.276	3.025	75.24%	1.24



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 27"
Model Name	Unity27
Brand Name	SECO
Model Difference	Differ in product size.
Power Source	DC voltage supplied from AC/DC Adapter.
Power Rating	DC 12V
Products Covered	N/A
WIFI+BT Module	Marvell / W8997-1216
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2412 MHz ~ 2462 MHz
Test Model	Unity27
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or 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
Aux	dynaflex	616	Dipole	2400-2480	1.1
				5000-5800	2.5

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

(5) This device only supports MIMO operation.

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 802.11g	11	-
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)	03/09	
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)	03/06/09	

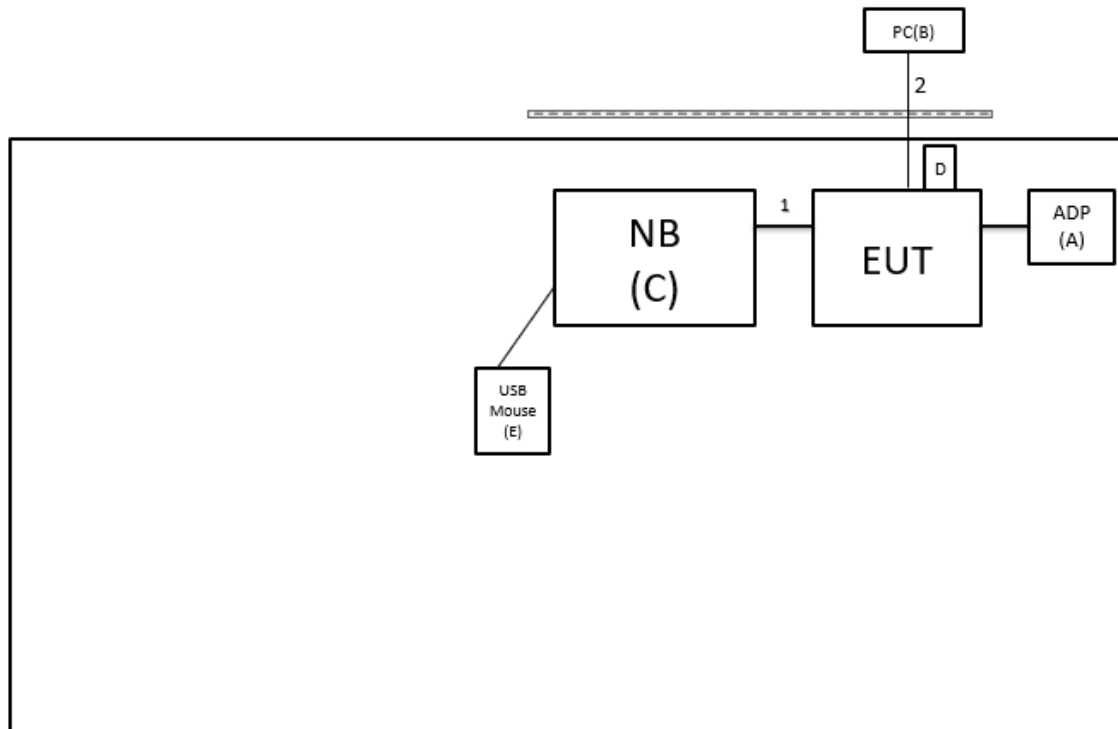
NOTE:

- (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 (Vertical) is recorded.
- (3) All X, Y and Z axes are evaluated, but only the worst case (Y axis) is recorded.

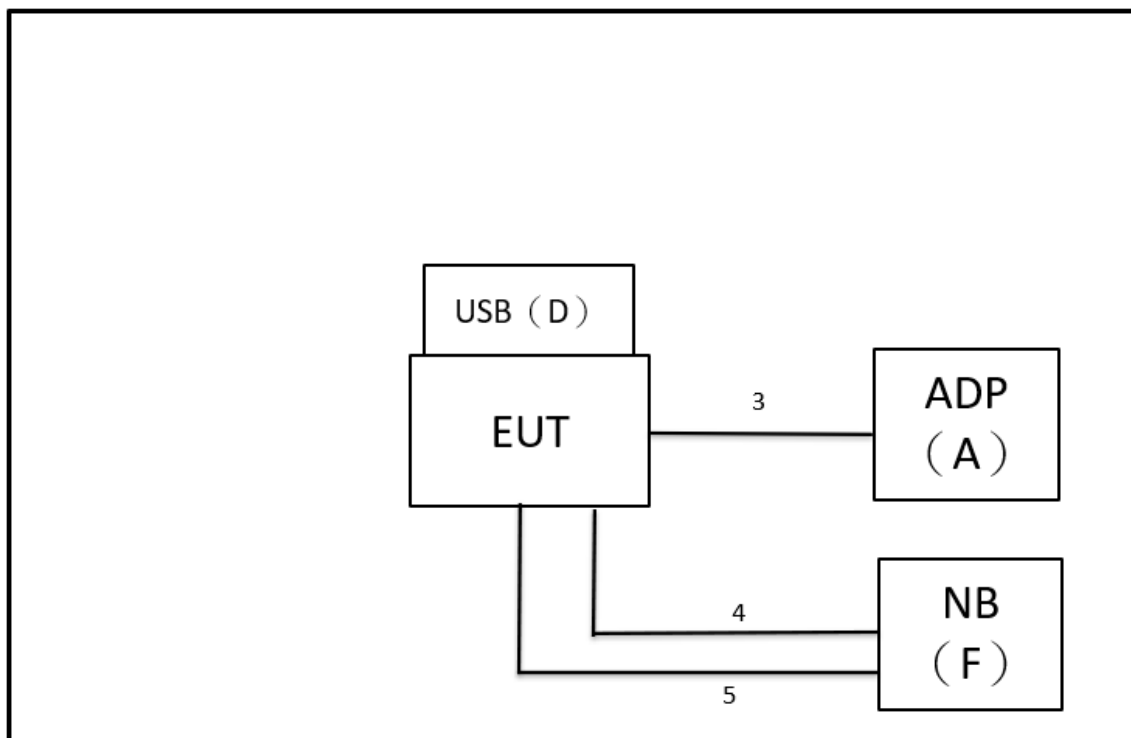
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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	DELTA ELECTRONICS INC.	ADT-060A12AA	N/A	Supplied by test requester
B	PC	DELL	OptiPlex 790 MT	64NJVBX	Furnished by test lab.
C	NB	ASUS	X450J	N/A	Furnished by test lab.
D	USB	Transcend	JetFlash790	N/A	Supplied by test requester
E	USB Mouse	DELL	MOCZUL	CN-049TWY-PR C00-79E-01HA	Furnished by test lab.
F	NB	HP	TPN-I119	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	Yes	NO	1.7m	HDMI Cable	Furnished by test lab.
2	NO	NO	10m	RJ-45 Cable	Furnished by test lab.
3	NO	NO	1.5m	Power Cable	Supplied by test requester
4	NO	NO	1.8m	HDMI	Furnished by test lab.
5	NO	NO	1m	cable	Furnished by test lab.

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.

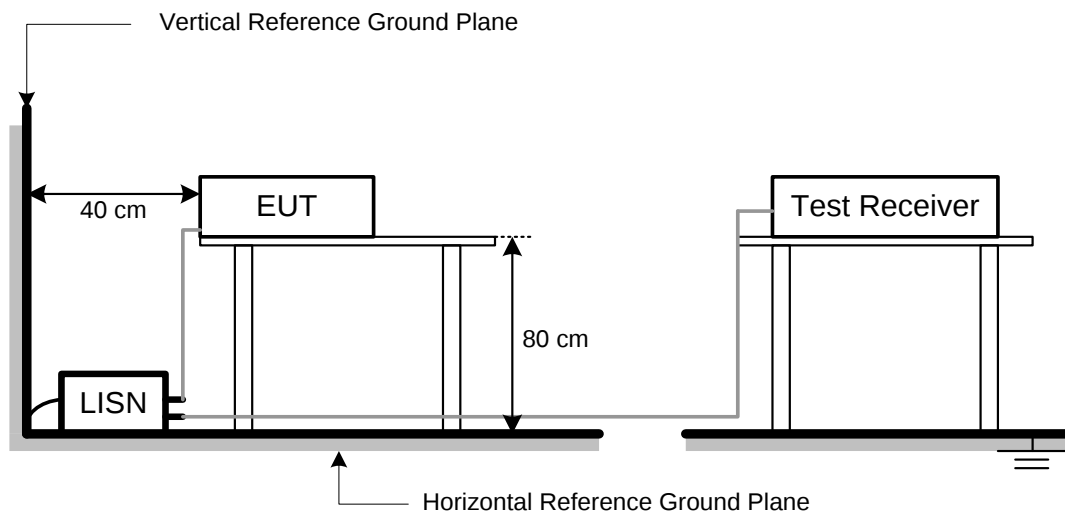
NOTE:

- (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

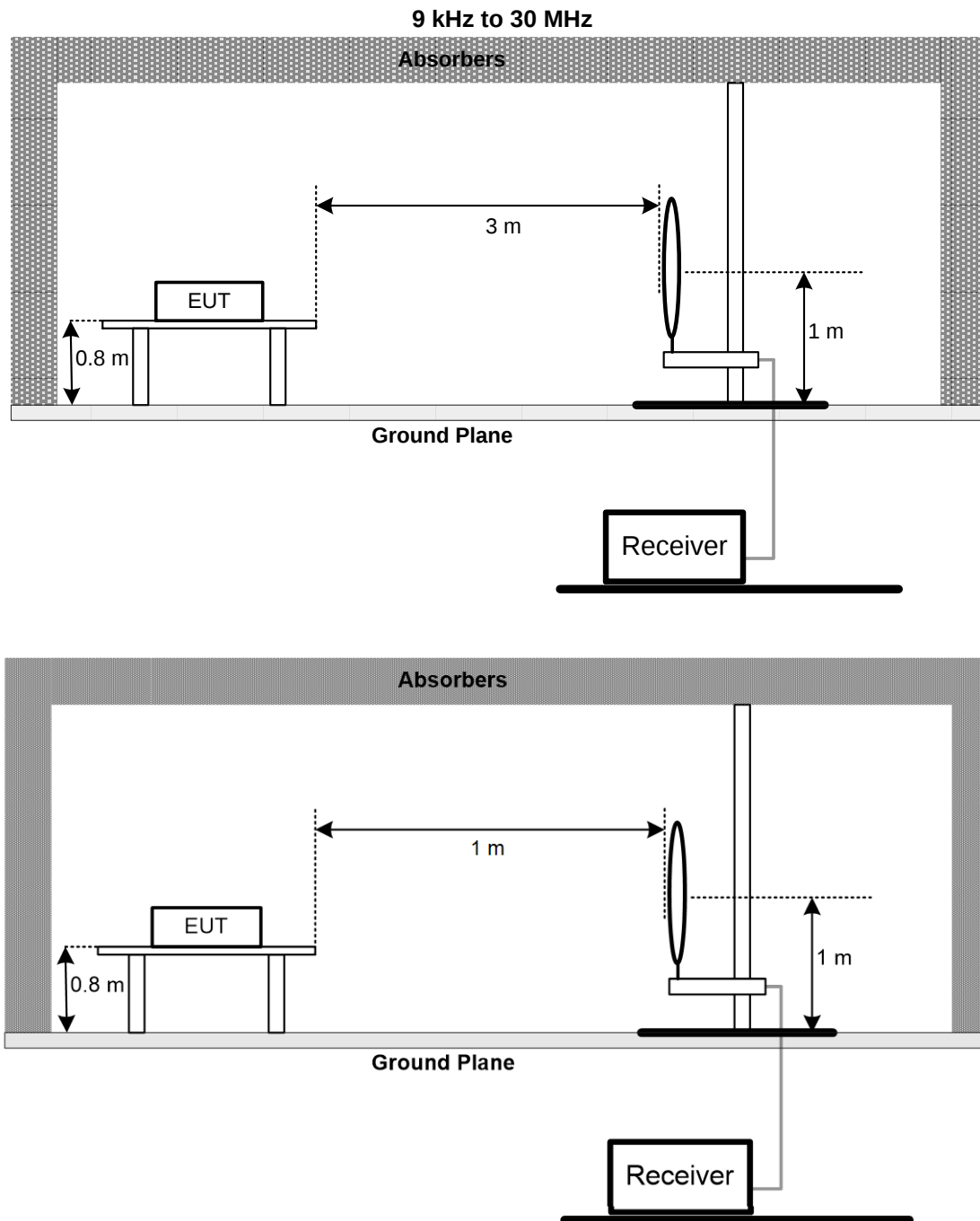
4.2 TEST PROCEDURE

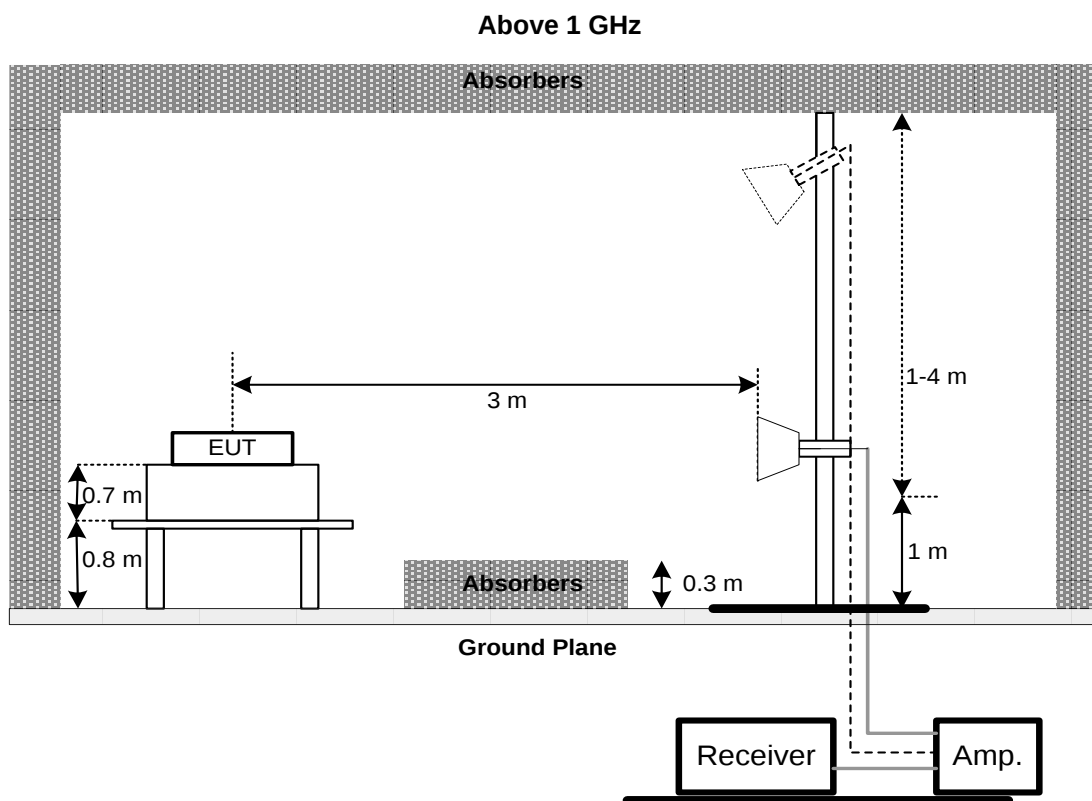
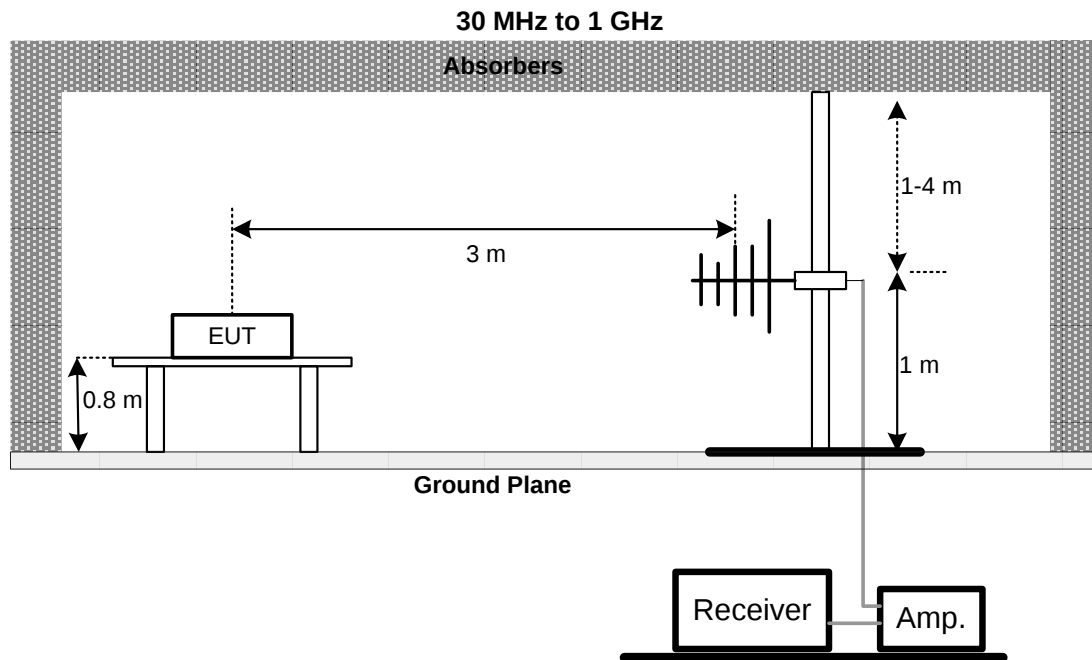
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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 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	101051	2022/6/15	2023/6/14
2	Test Cable	EMCI	EMCRG58-BM-B M-9000	210501	2022/5/2	2023/5/1
3	EMI Test Receiver	R&S	ESR 7	101433	2021/11/24	2022/11/23
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	EMC330N	980850	2022/9/19	2023/9/18
2	Preamplifier	EMCI	EMC118A45SE	980819	2022/3/8	2023/3/7
3	Preamplifier	EMCI	EMC184045SE	980882	2022/2/9	2023/2/8
4	Preamplifier	EMCI	EMC001340	980555	2022/4/6	2023/4/5
5	Test Cable	EMCI	EMC104-SM-SM-1000	220319	2022/3/15	2023/3/14
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2022/3/15	2023/3/14
7	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2022/3/15	2023/3/14
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2022/3/7	2023/3/6
9	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2022/6/16	2023/6/15
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2022/5/18	2023/5/17
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2022/5/18	2023/5/17
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2022/5/20	2023/5/19
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-N0625	2022/5/20	2023/5/19
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	Keysight	8990B	MY51000517	2022/3/18	2023/3/17
2	Power Sensor	Keysight	N1923A	MY58310005	2022/3/18	2023/3/17

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

6 EUT TEST PHOTO

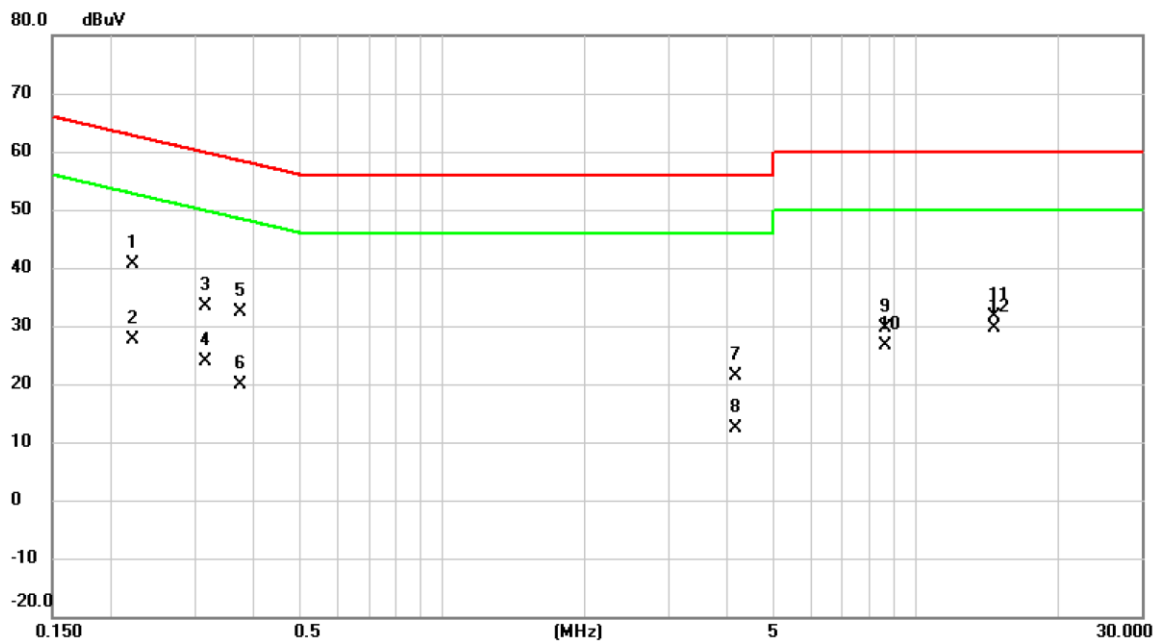
Please refer to document Appendix No.: TP-2102T091A-FCCP-1 (APPENDIX-TEST PHOTOS).

7 EUT PHOTOS

Please refer to document Appendix No.: EP-2102T091A-2 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2022/8/19
Test Frequency	-	Phase	Line

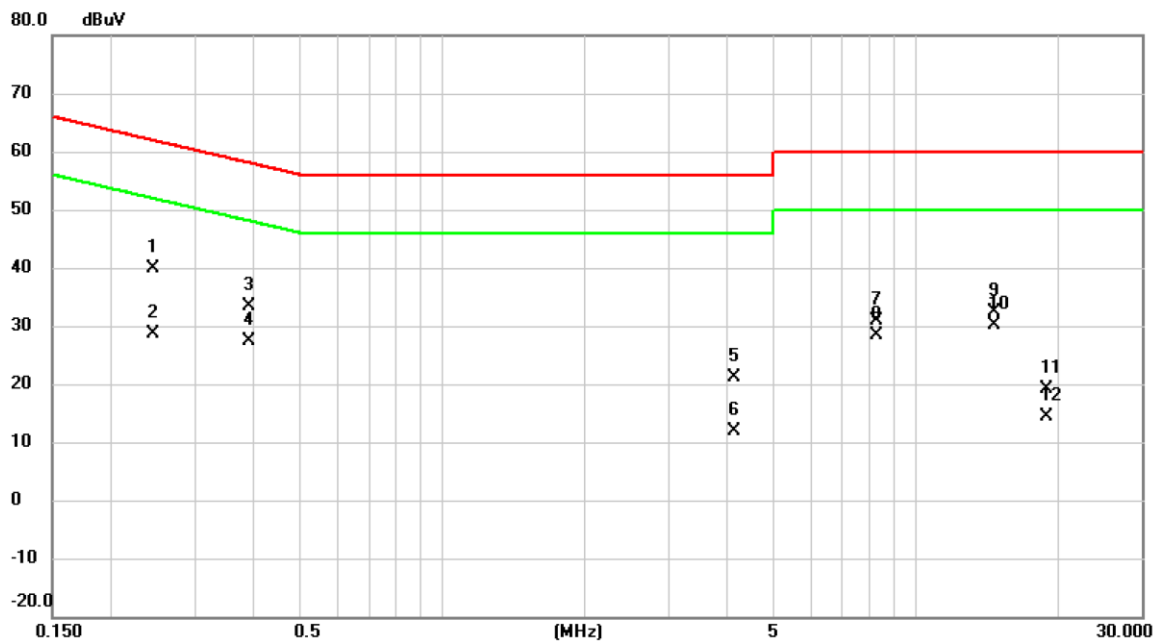


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2220	30.89	9.63	40.52	62.74	-22.22	QP	
2		0.2220	18.07	9.63	27.70	52.74	-25.04	AVG	
3		0.3166	23.70	9.62	33.32	59.80	-26.48	QP	
4		0.3166	14.33	9.62	23.95	49.80	-25.85	AVG	
5		0.3750	22.84	9.62	32.46	58.39	-25.93	QP	
6		0.3750	10.37	9.62	19.99	48.39	-28.40	AVG	
7		4.1774	11.54	9.74	21.28	56.00	-34.72	QP	
8		4.1774	2.67	9.74	12.41	46.00	-33.59	AVG	
9		8.6168	19.75	9.82	29.57	60.00	-30.43	QP	
10		8.6168	16.86	9.82	26.68	50.00	-23.32	AVG	
11		14.6108	21.89	9.83	31.72	60.00	-28.28	QP	
12	*	14.6108	19.90	9.83	29.73	50.00	-20.27	AVG	

REMARKS:

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

Test Mode	Normal	Tested Date	2022/8/19
Test Frequency	-	Phase	Neutral

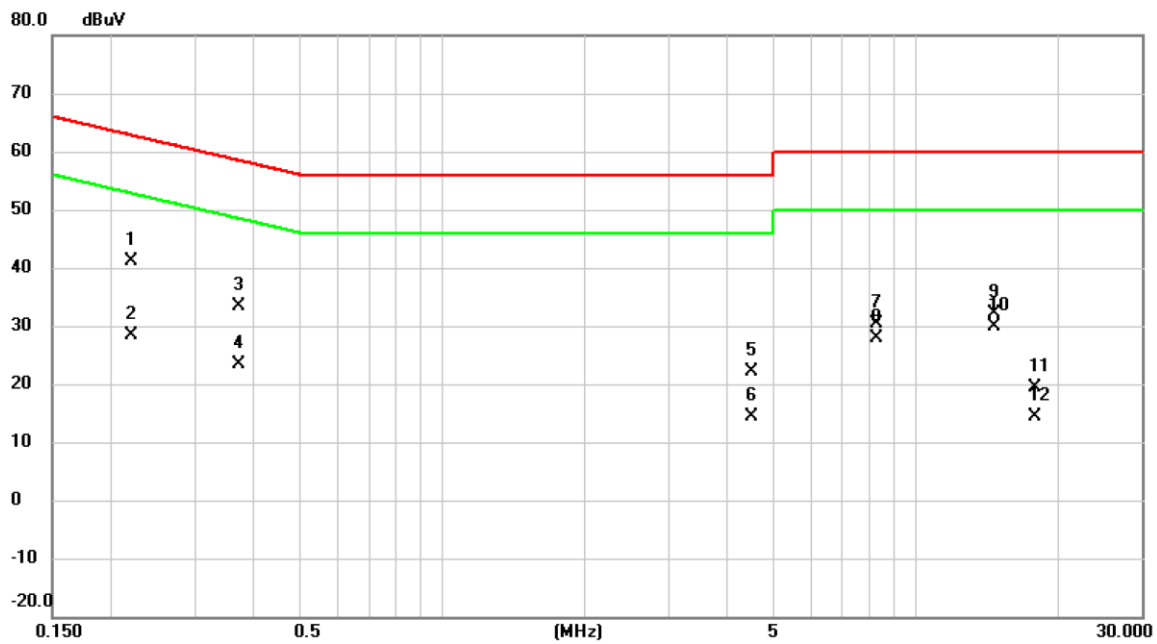


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2445	30.37	9.62	39.99	61.94	-21.95	QP	
2		0.2445	19.01	9.62	28.63	51.94	-23.31	AVG	
3		0.3907	23.65	9.62	33.27	58.05	-24.78	QP	
4		0.3907	17.67	9.62	27.29	48.05	-20.76	AVG	
5		4.1303	11.44	9.74	21.18	56.00	-34.82	QP	
6		4.1303	2.16	9.74	11.90	46.00	-34.10	AVG	
7		8.2410	21.13	9.84	30.97	60.00	-29.03	QP	
8		8.2410	18.63	9.84	28.47	50.00	-21.53	AVG	
9		14.6085	22.46	9.90	32.36	60.00	-27.64	QP	
10	*	14.6085	20.29	9.90	30.19	50.00	-19.81	AVG	
11		18.8408	9.14	9.94	19.08	60.00	-40.92	QP	
12		18.8408	4.48	9.94	14.42	50.00	-35.58	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2022/8/19
Test Frequency	-	Phase	Line

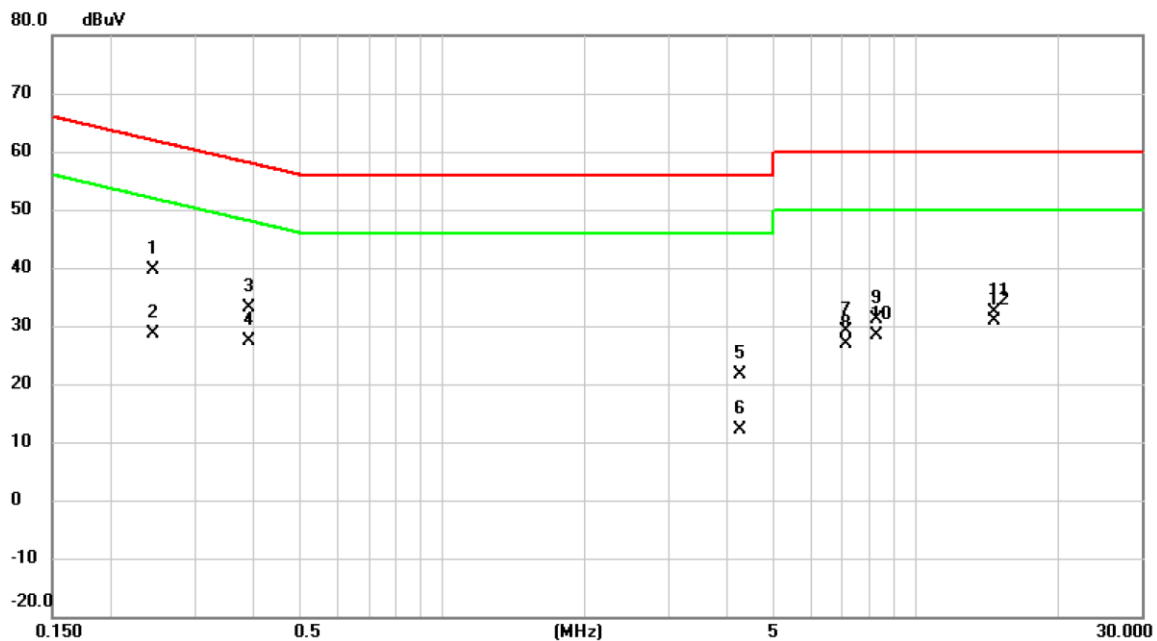


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2198	31.59	9.63	41.22	62.83	-21.61	QP	
2		0.2198	18.63	9.63	28.26	52.83	-24.57	AVG	
3		0.3727	23.68	9.62	33.30	58.44	-25.14	QP	
4		0.3727	13.66	9.62	23.28	48.44	-25.16	AVG	
5		4.4903	12.45	9.74	22.19	56.00	-33.81	QP	
6		4.4903	4.60	9.74	14.34	46.00	-31.66	AVG	
7		8.2410	20.63	9.82	30.45	60.00	-29.55	QP	
8		8.2410	18.03	9.82	27.85	50.00	-22.15	AVG	
9		14.6085	22.32	9.83	32.15	60.00	-27.85	QP	
10	*	14.6085	19.99	9.83	29.82	50.00	-20.18	AVG	
11		17.8890	9.54	9.82	19.36	60.00	-40.64	QP	
12		17.8890	4.62	9.82	14.44	50.00	-35.56	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2022/8/19
Test Frequency	-	Phase	Neutral



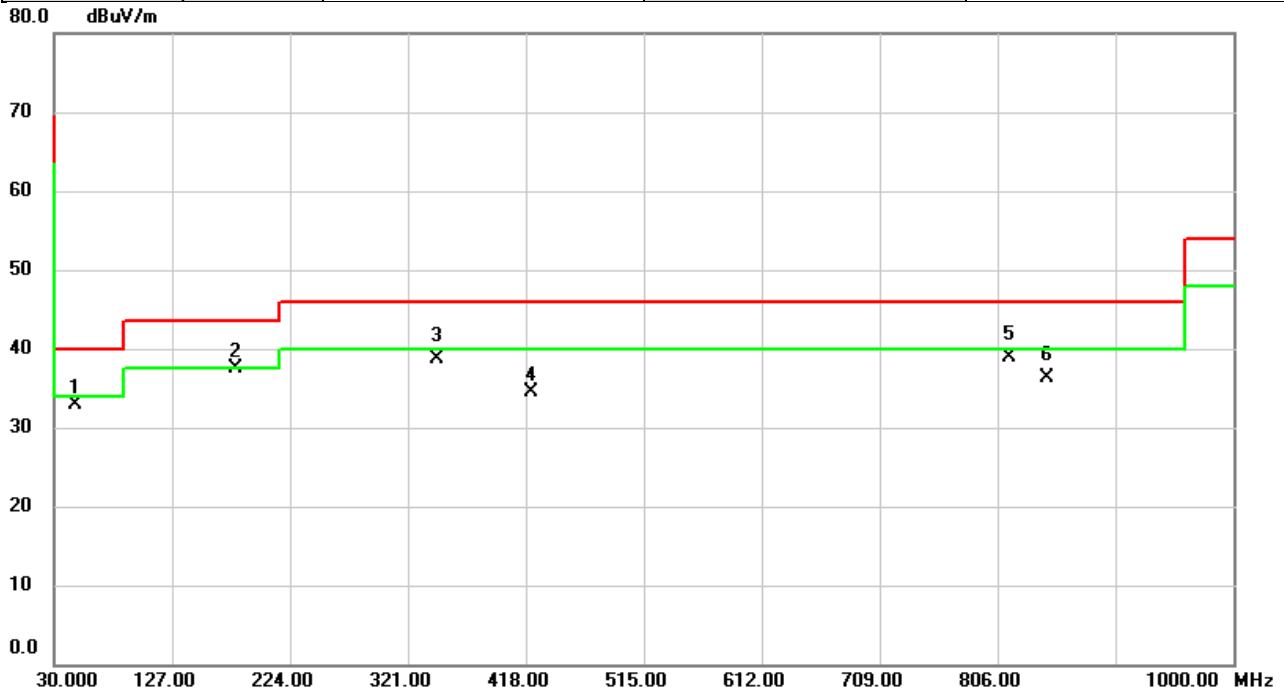
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2445	30.09	9.62	39.71	61.94	-22.23	QP	
2		0.2445	18.92	9.62	28.54	51.94	-23.40	AVG	
3		0.3907	23.49	9.62	33.11	58.05	-24.94	QP	
4		0.3907	17.66	9.62	27.28	48.05	-20.77	AVG	
5		4.2675	11.90	9.74	21.64	56.00	-34.36	QP	
6		4.2675	2.46	9.74	12.20	46.00	-33.80	AVG	
7		7.1160	19.41	9.81	29.22	60.00	-30.78	QP	
8		7.1160	17.01	9.81	26.82	50.00	-23.18	AVG	
9		8.2410	21.19	9.84	31.03	60.00	-28.97	QP	
10		8.2410	18.63	9.84	28.47	50.00	-21.53	AVG	
11		14.6085	22.39	9.90	32.29	60.00	-27.71	QP	
12	*	14.6085	21.03	9.90	30.93	50.00	-19.07	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	IEEE 802.11g	Test Date	2023/1/18
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

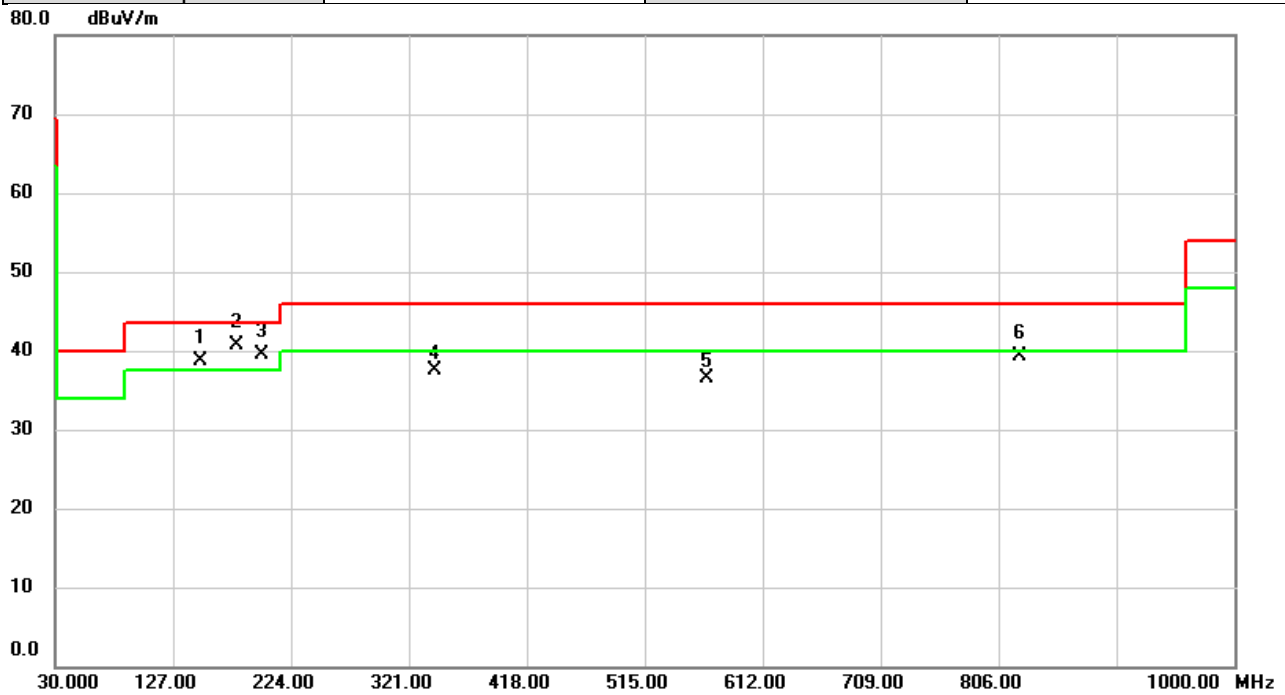


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		47.4600	44.11	-11.21	32.90	40.00	-7.10	peak	
2	*	178.8950	50.71	-13.29	37.42	43.50	-6.08	peak	
3		344.7973	49.14	-10.47	38.67	46.00	-7.33	QP	
4		423.1087	42.73	-8.14	34.59	46.00	-11.41	peak	
5		815.6352	39.86	-0.87	38.99	46.00	-7.01	QP	
6		846.3520	36.86	-0.48	36.38	46.00	-9.62	QP	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2023/1/18
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%



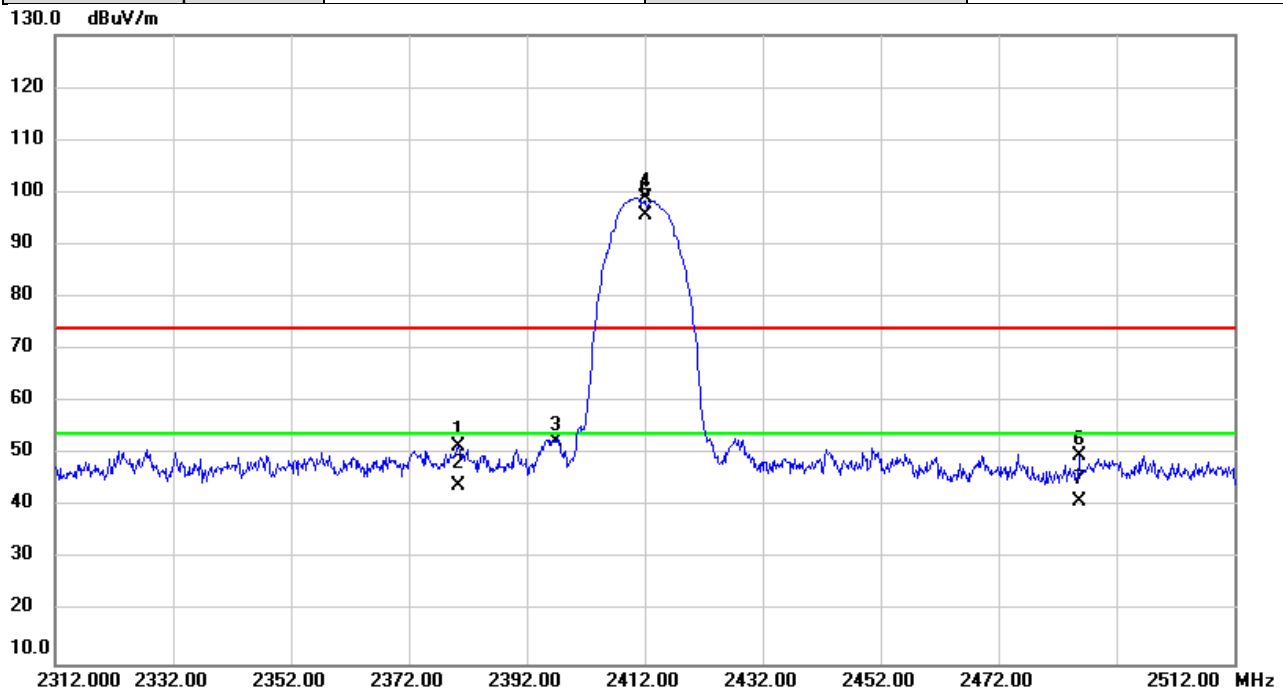
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	!	149.9890	50.51	-11.80	38.71	43.50	-4.79	QP	
2	*	178.9920	54.04	-13.30	40.74	43.50	-2.76	QP	
3	!	200.0087	54.70	-15.13	39.57	43.50	-3.93	QP	
4		341.7257	48.01	-10.54	37.47	46.00	-8.53	peak	
5		565.5692	41.57	-5.16	36.41	46.00	-9.59	peak	
6		824.0420	40.07	-0.77	39.30	46.00	-6.70	QP	

REMARKS:

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

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

Test Mode	IEEE 802.11b	Test Date	2022/8/22
Test Frequency	2412MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

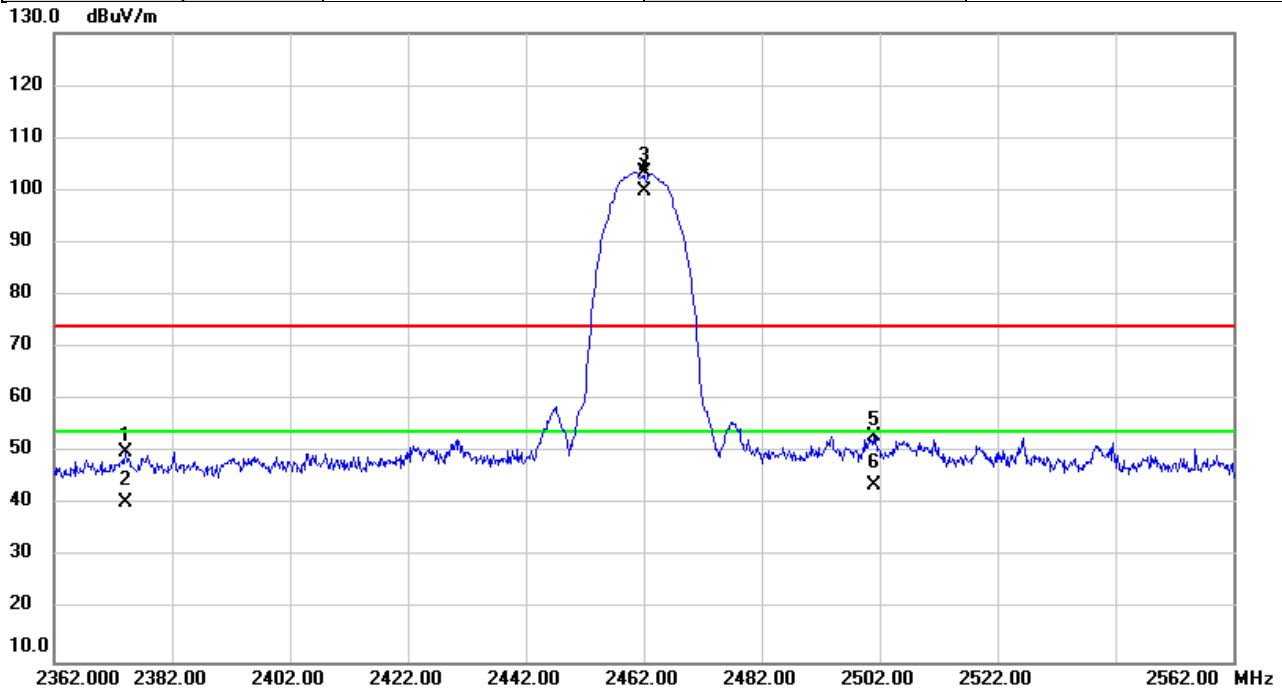


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2380.353	57.41	-5.78	51.63	74.00	-22.37	peak	
2		2380.353	49.71	-5.78	43.93	54.00	-10.07	AVG	
3		2397.000	58.31	-5.76	52.55			peak	
4	X	2412.000	104.82	-5.74	99.08			peak	
5	*	2412.000	101.33	-5.74	95.59			AVG	
6		2485.753	55.47	-5.63	49.84	74.00	-24.16	peak	
7		2485.753	46.69	-5.63	41.06	54.00	-12.94	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/8/22
Test Frequency	2462MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

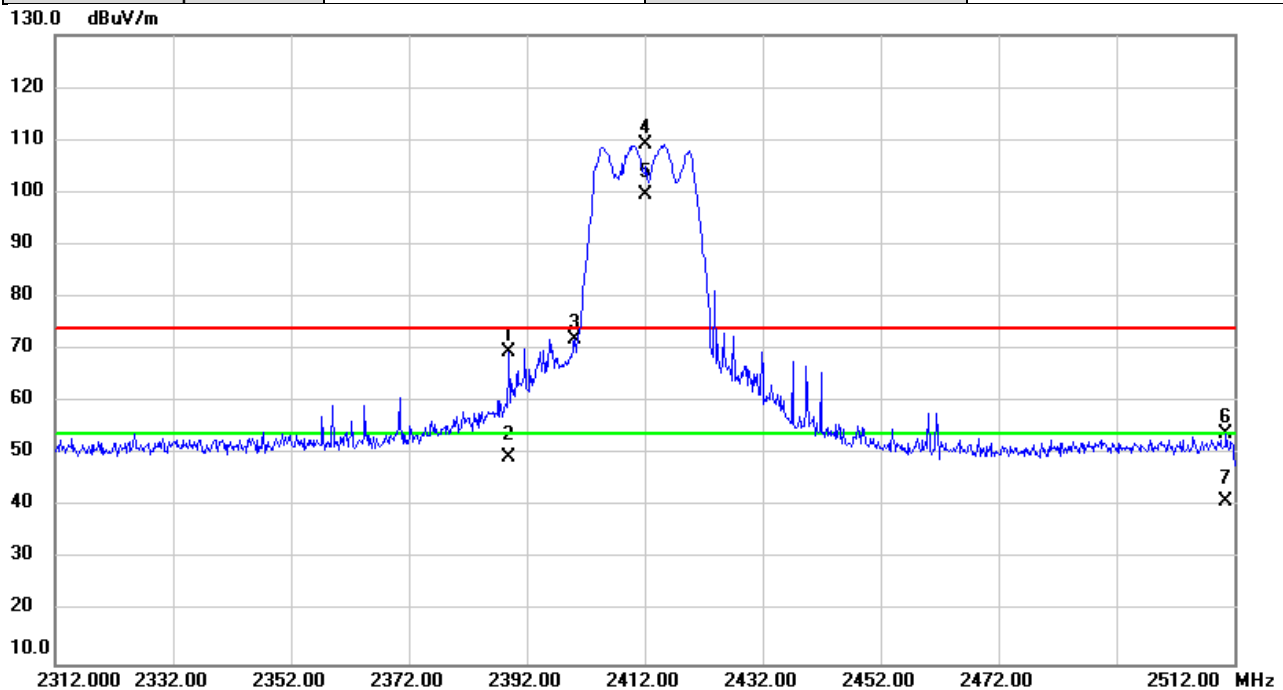


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2374.140	55.91	-5.79	50.12	74.00	-23.88	peak	
2		2374.140	46.18	-5.79	40.39	54.00	-13.61	AVG	
3	X	2462.000	109.12	-5.68	103.44			peak	
4	*	2462.000	105.62	-5.68	99.94			AVG	
5		2500.947	58.79	-5.62	53.17	74.00	-20.83	peak	
6		2500.947	49.39	-5.62	43.77	54.00	-10.23	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/8/22
Test Frequency	2412MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

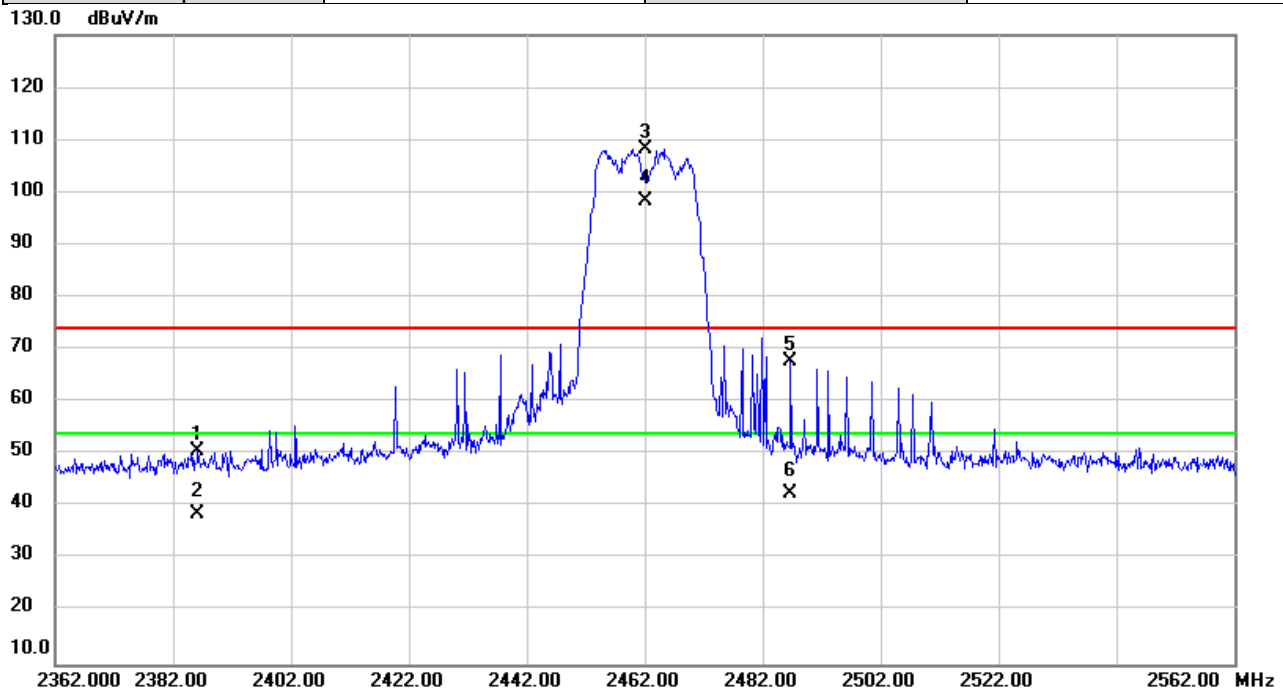


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.020	75.43	-5.77	69.66	74.00	-4.34	peak	
2		2389.020	55.37	-5.77	49.60	54.00	-4.40	AVG	
3		2400.000	77.57	-5.76	71.81			peak	
4	X	2412.000	114.86	-5.74	109.12			peak	
5	*	2412.000	105.28	-5.74	99.54			AVG	
6		2510.660	59.39	-5.57	53.82	74.00	-20.18	peak	
7		2510.660	46.75	-5.57	41.18	54.00	-12.82	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/8/22
Test Frequency	2462MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

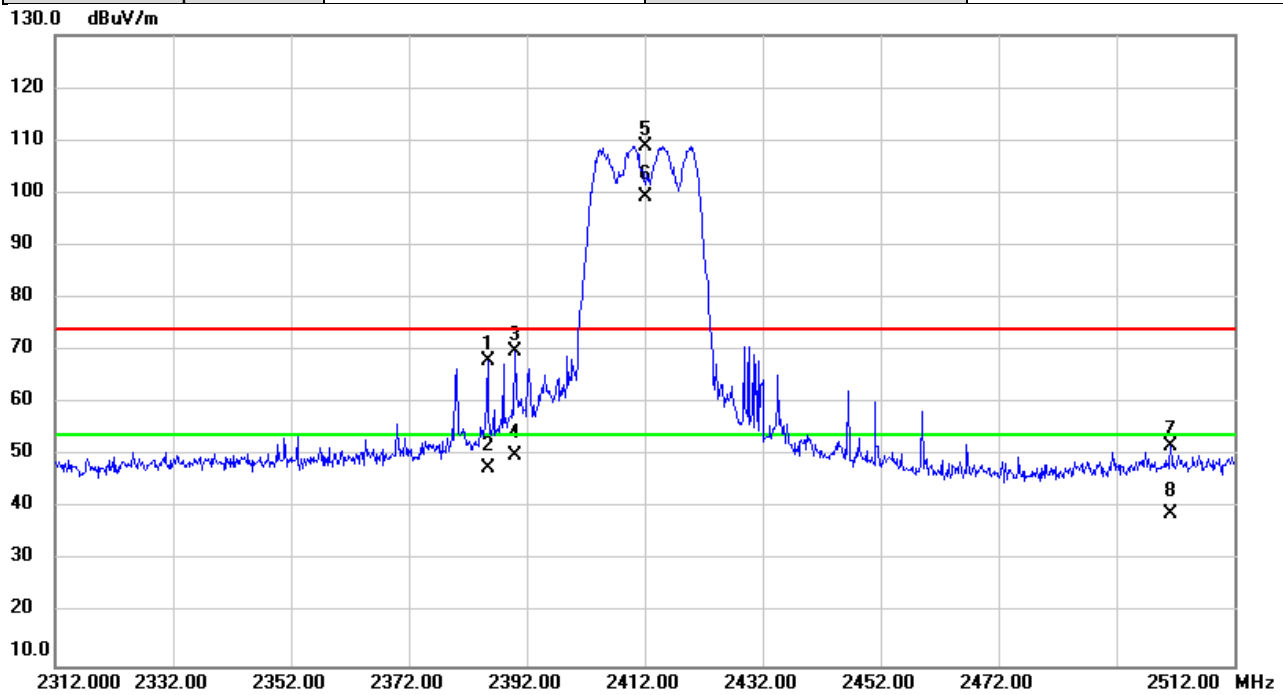


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2386.240	56.36	-5.77	50.59	74.00	-23.41	peak	
2		2386.240	44.37	-5.77	38.60	54.00	-15.40	AVG	
3	X	2462.000	113.90	-5.68	108.22			peak	
4	*	2462.000	103.89	-5.68	98.21			AVG	
5		2486.733	73.31	-5.63	67.68	74.00	-6.32	peak	
6		2486.733	48.04	-5.63	42.41	54.00	-11.59	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/8/22
Test Frequency	2412MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

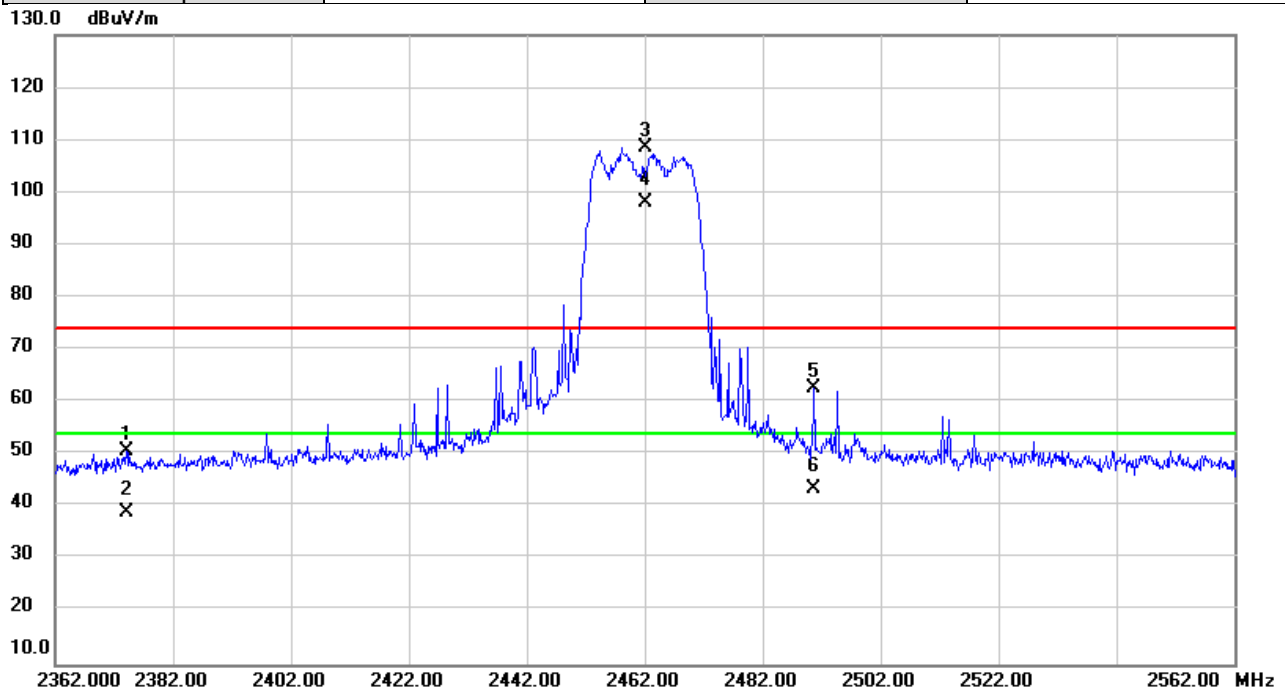


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2385.347	73.91	-5.77	68.14	74.00	-5.86	peak	
2		2385.347	53.28	-5.77	47.51	54.00	-6.49	AVG	
3		2390.000	75.47	-5.77	69.70	74.00	-4.30	peak	
4		2390.000	55.89	-5.77	50.12	54.00	-3.88	AVG	
5	X	2412.000	114.62	-5.74	108.88			peak	
6	*	2412.000	104.97	-5.74	99.23			AVG	
7		2501.300	57.34	-5.62	51.72	74.00	-22.28	peak	
8		2501.300	44.50	-5.62	38.88	54.00	-15.12	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/8/22
Test Frequency	2462MHz	Polarization	Vertical
Temp	28°C	Hum.	62%



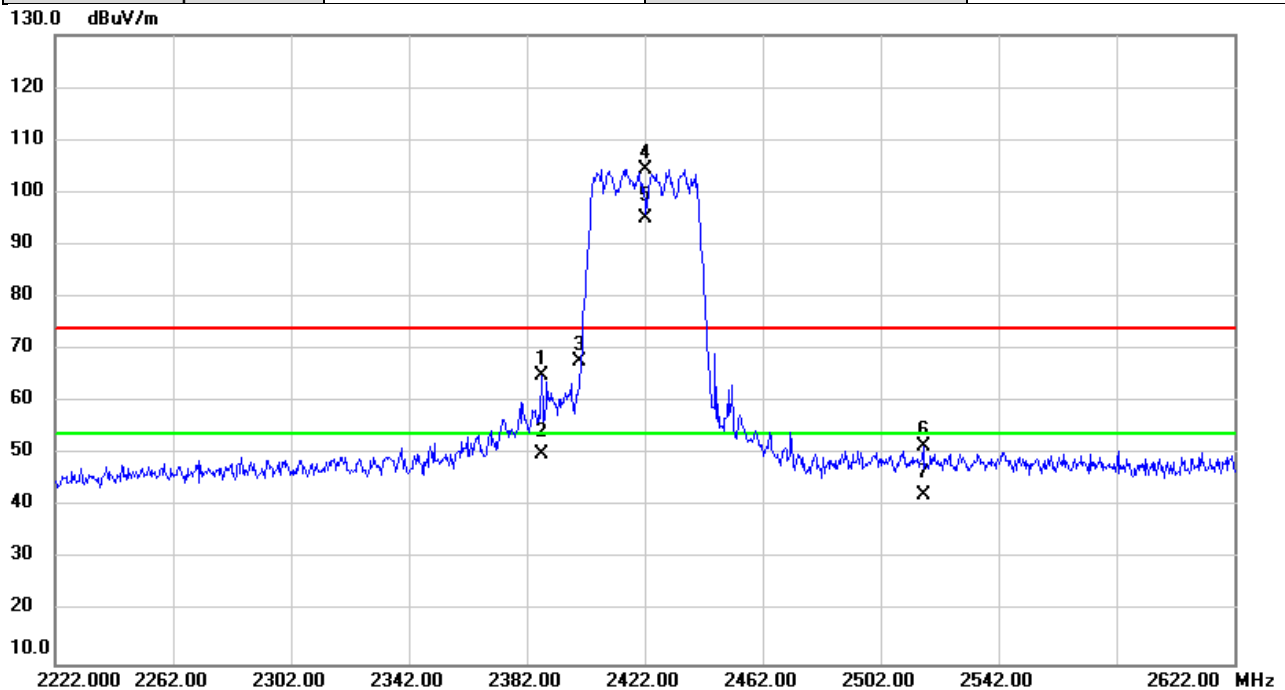
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2374.140	56.49	-5.79	50.70	74.00	-23.30	peak	
2		2374.140	44.62	-5.79	38.83	54.00	-15.17	AVG	
3	X	2462.000	114.30	-5.68	108.62			peak	
4	*	2462.000	103.61	-5.68	97.93			AVG	
5		2490.620	68.15	-5.63	62.52	74.00	-11.48	peak	
6		2490.620	49.12	-5.63	43.49	54.00	-10.51	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/8/22
Test Frequency	2422MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

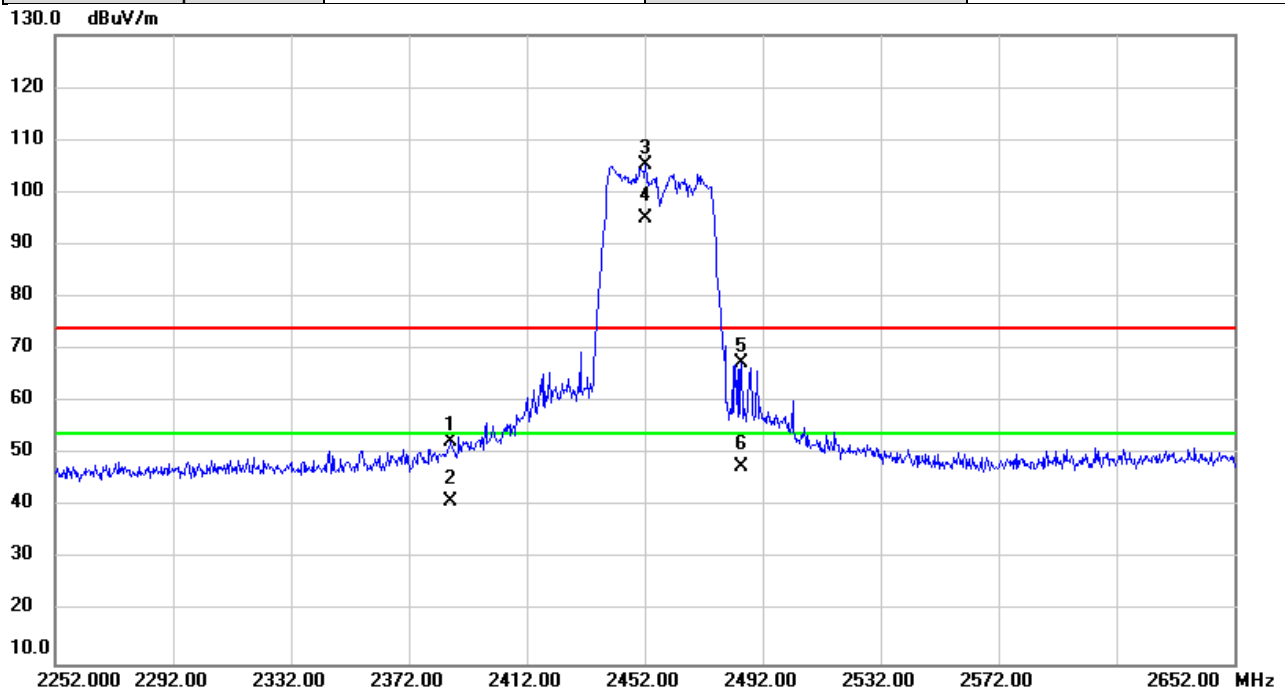


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2387.053	70.86	-5.77	65.09	74.00	-8.91	peak	
2		2387.053	55.81	-5.77	50.04	54.00	-3.96	AVG	
3		2400.000	73.59	-5.76	67.83			peak	
4	X	2422.000	110.18	-5.72	104.46			peak	
5	*	2422.000	100.62	-5.72	94.90			AVG	
6		2516.467	57.19	-5.55	51.64	74.00	-22.36	peak	
7		2516.467	47.65	-5.55	42.10	54.00	-11.90	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/8/22
Test Frequency	2452MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

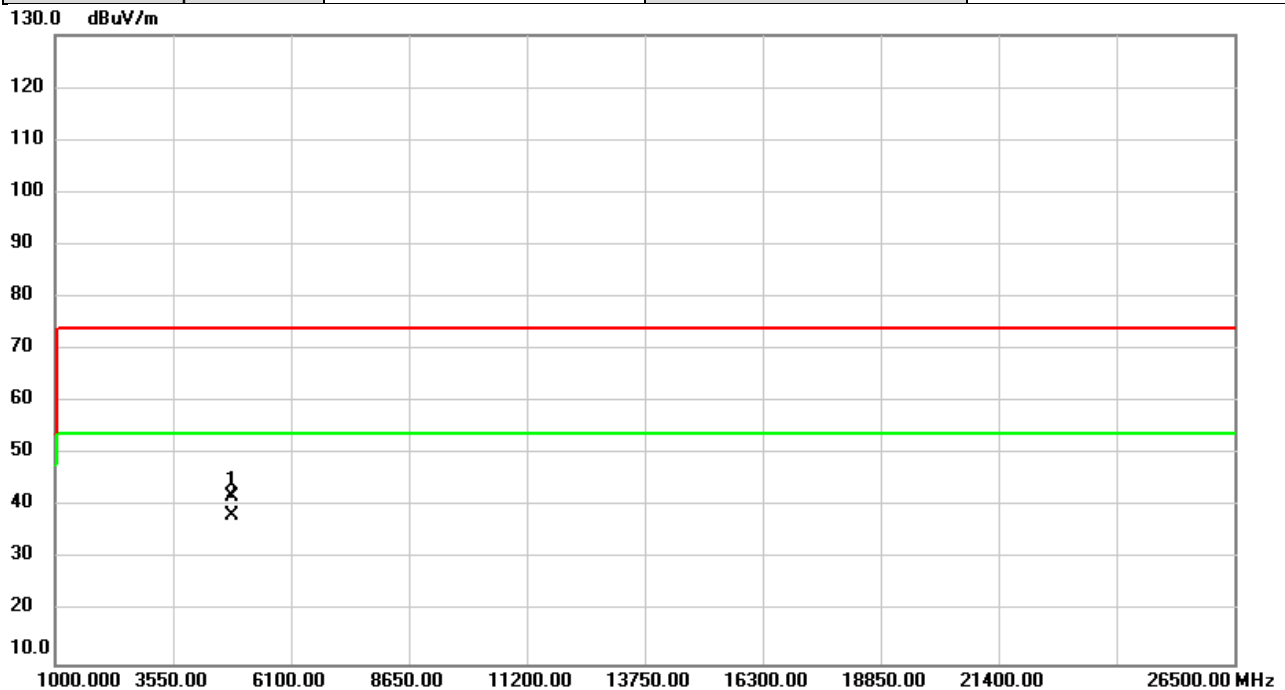


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2386.360	58.32	-5.77	52.55	74.00	-21.45	peak	
2		2386.360	46.85	-5.77	41.08	54.00	-12.92	AVG	
3	X	2452.000	110.95	-5.69	105.26			peak	
4	*	2452.000	100.81	-5.69	95.12			AVG	
5		2484.920	73.10	-5.64	67.46	74.00	-6.54	peak	
6		2484.920	53.15	-5.64	47.51	54.00	-6.49	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/8/22
Test Frequency	2412MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

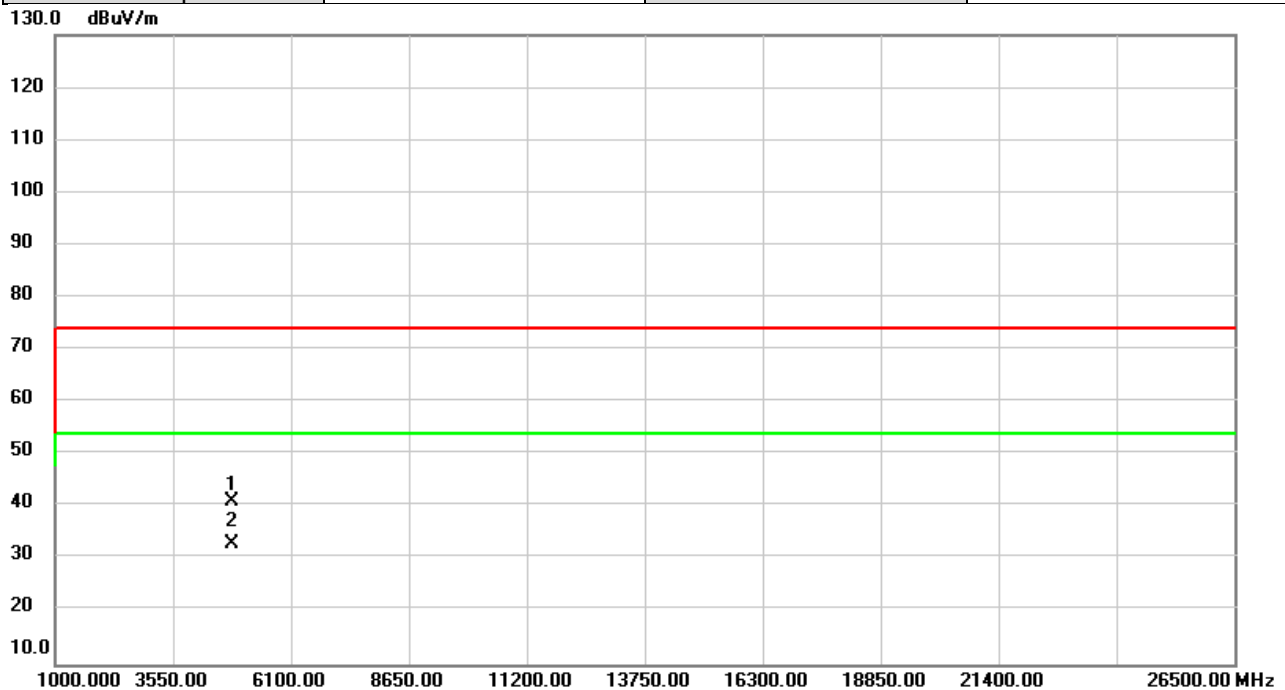


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	41.33	0.72	42.05	74.00	-31.95	peak	
2	*	4824.000	37.72	0.72	38.44	54.00	-15.56	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/8/22
Test Frequency	2412MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

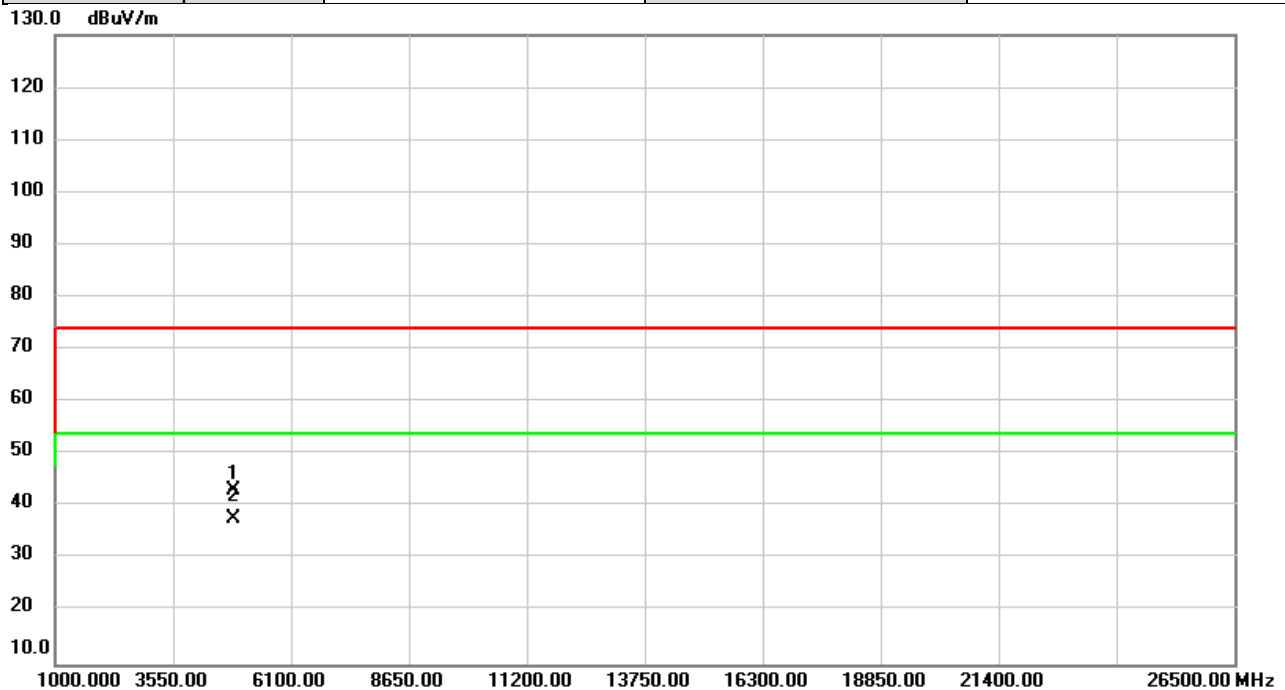


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	40.33	0.72	41.05	74.00	-32.95	peak	
2	*	4824.000	32.31	0.72	33.03	54.00	-20.97	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/8/22
Test Frequency	2437MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

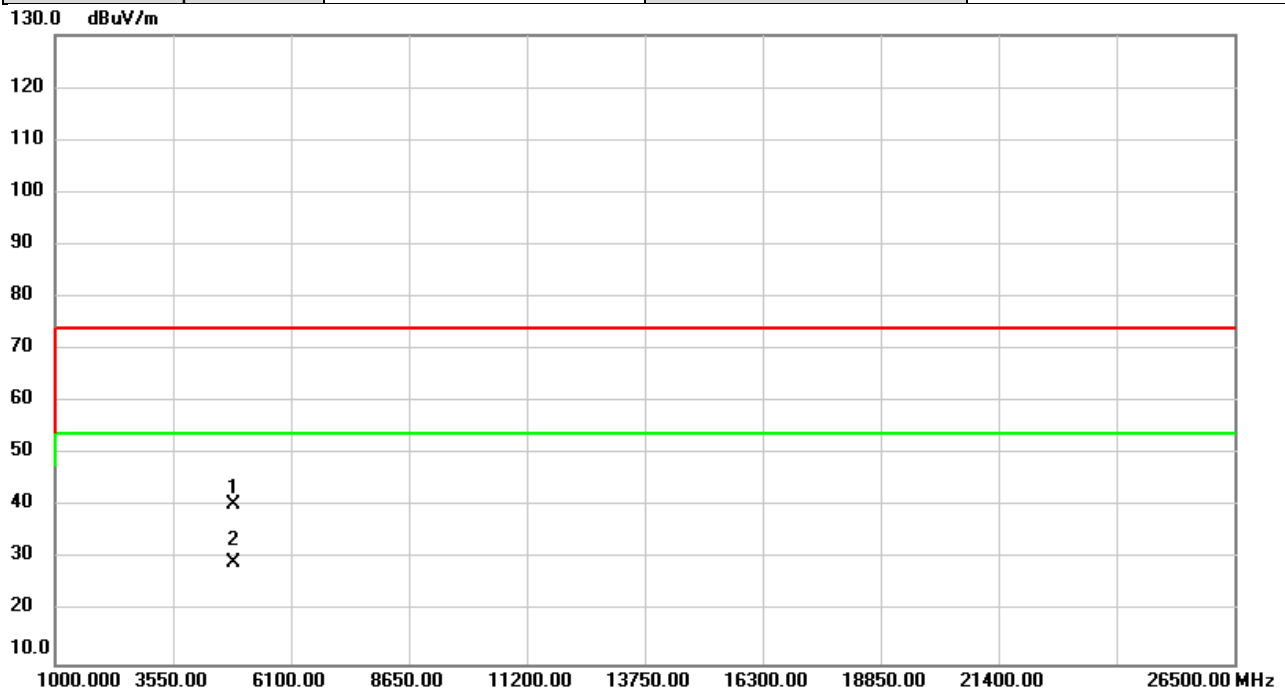


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	42.17	0.89	43.06	74.00	-30.94	peak	
2	*	4874.000	36.82	0.89	37.71	54.00	-16.29	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/8/22
Test Frequency	2437MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

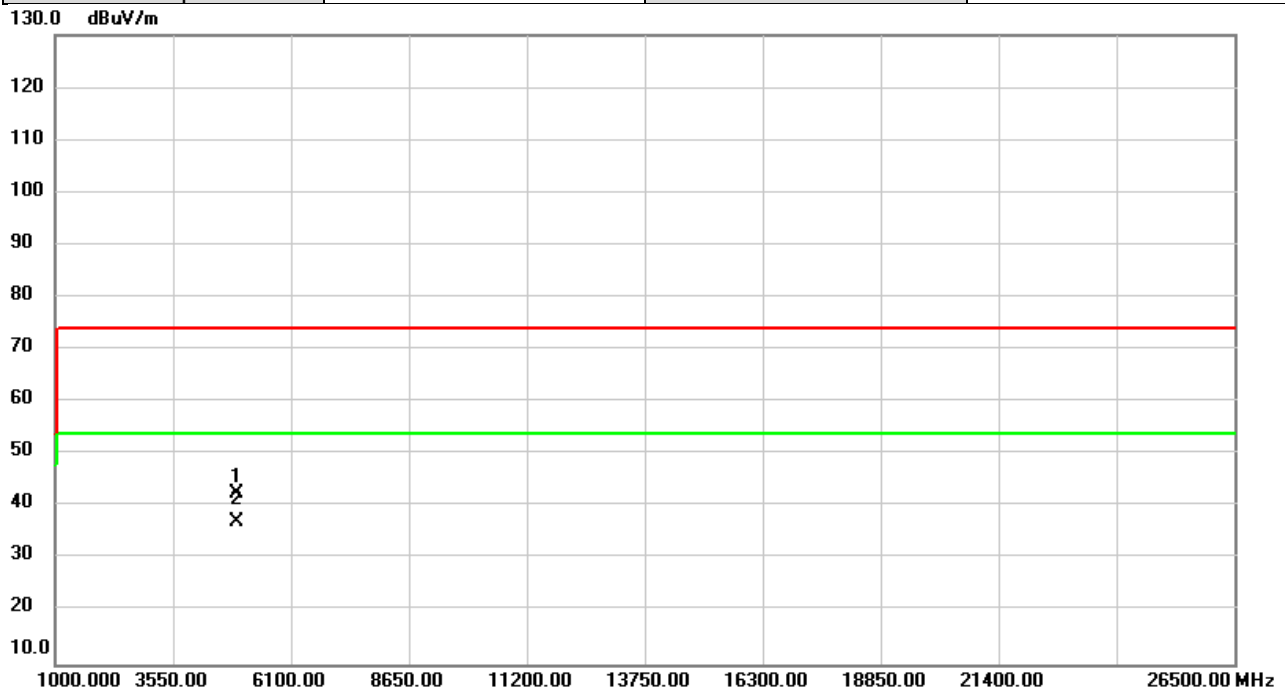


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.69	0.89	40.58	74.00	-33.42	peak	
2	*	4874.000	28.35	0.89	29.24	54.00	-24.76	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/8/22
Test Frequency	2462MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

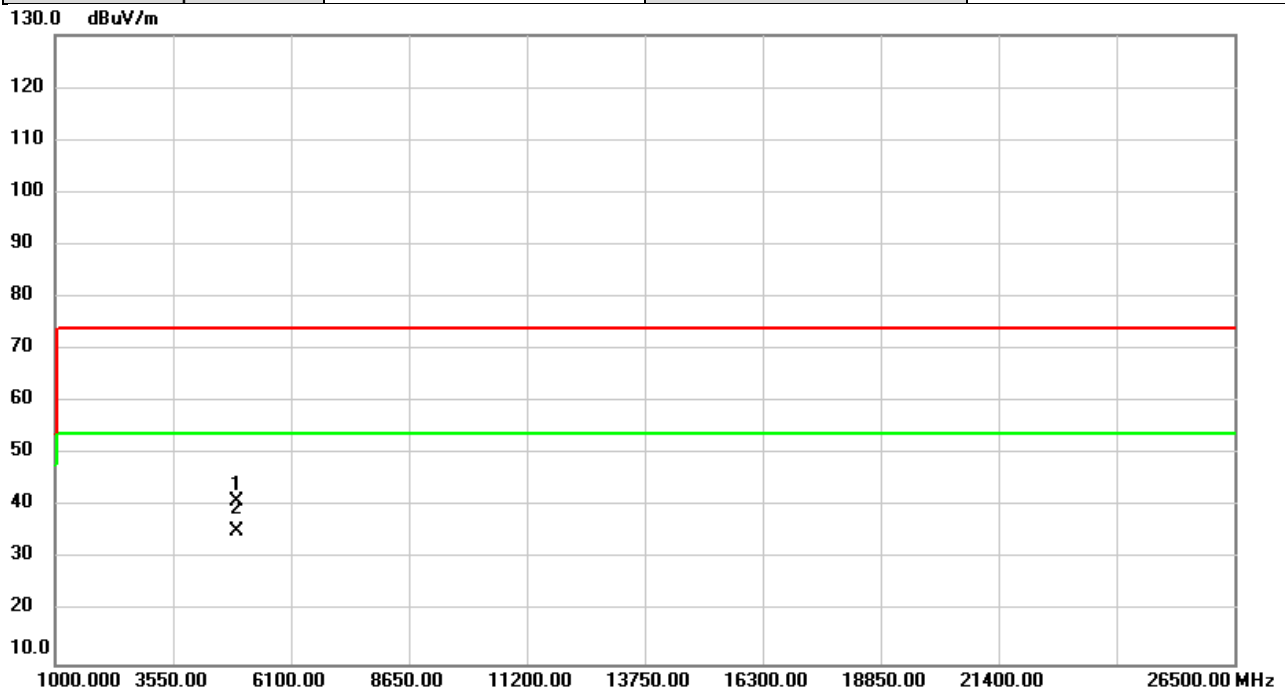


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	41.40	1.07	42.47	74.00	-31.53	peak	
2	*	4924.000	36.11	1.07	37.18	54.00	-16.82	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2022/8/22
Test Frequency	2462MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

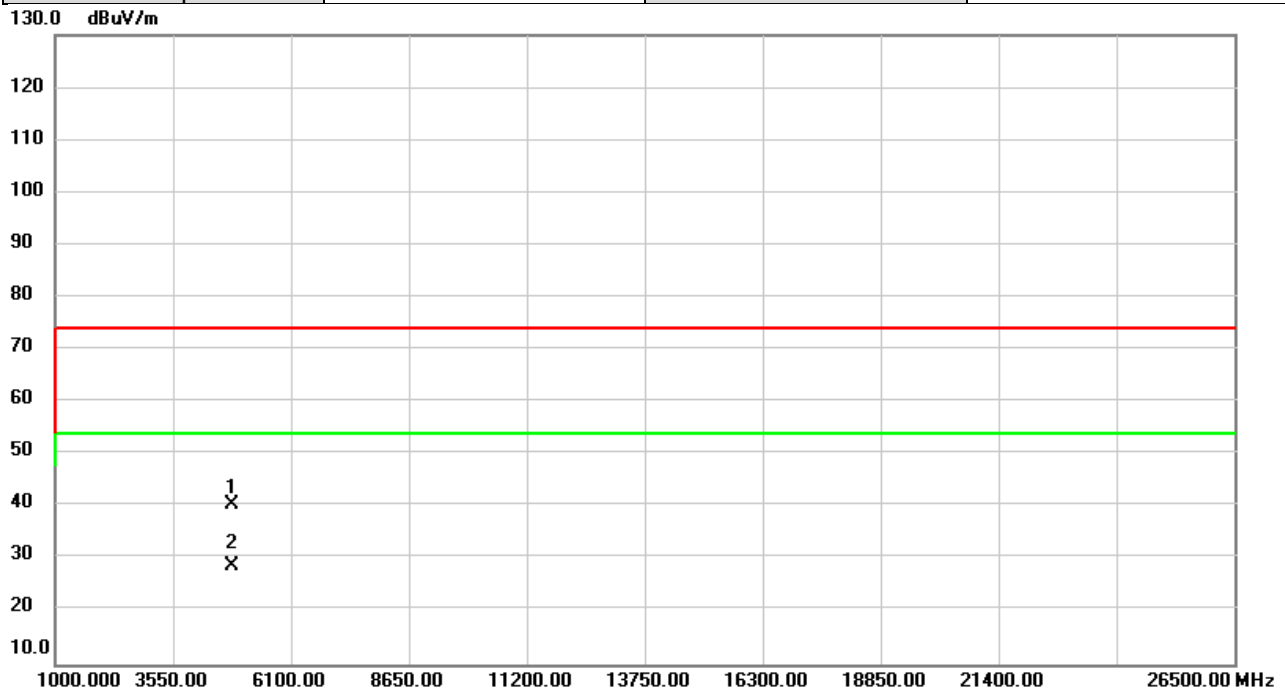


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	39.88	1.07	40.95	74.00	-33.05	peak	
2	*	4924.000	34.17	1.07	35.24	54.00	-18.76	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/8/22
Test Frequency	2412MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

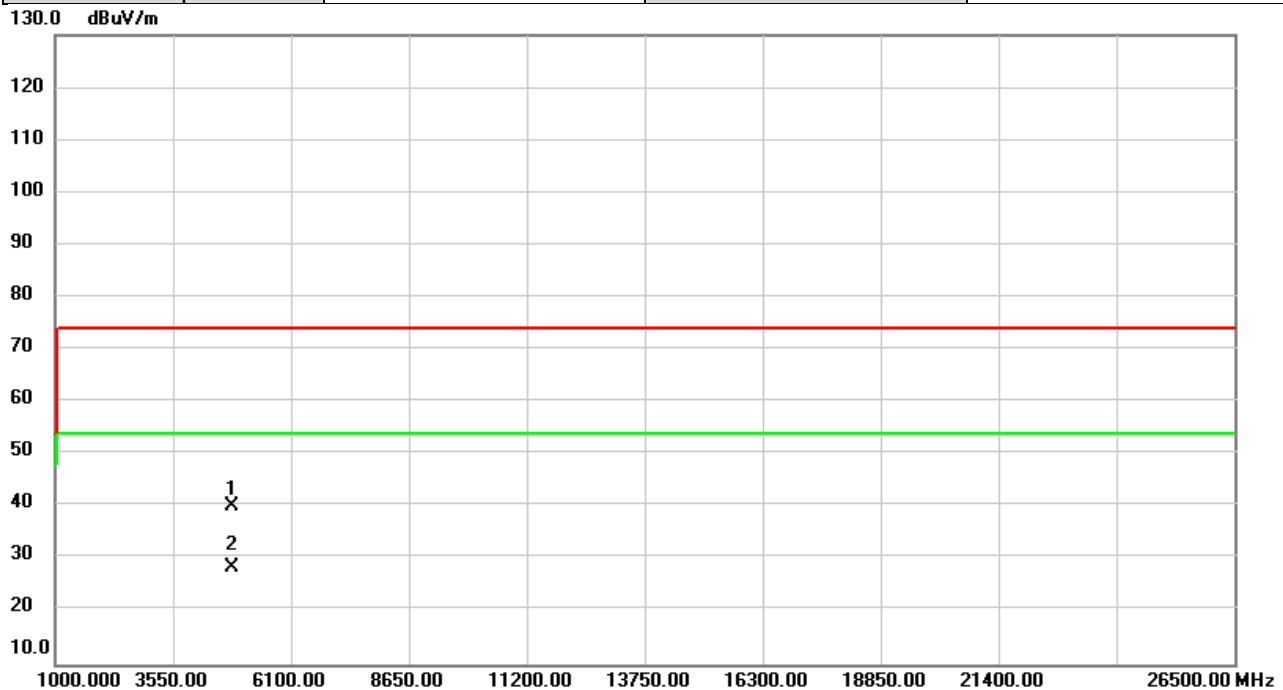


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	39.63	0.72	40.35	74.00	-33.65	peak	
2	*	4824.000	27.89	0.72	28.61	54.00	-25.39	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/8/22
Test Frequency	2412MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

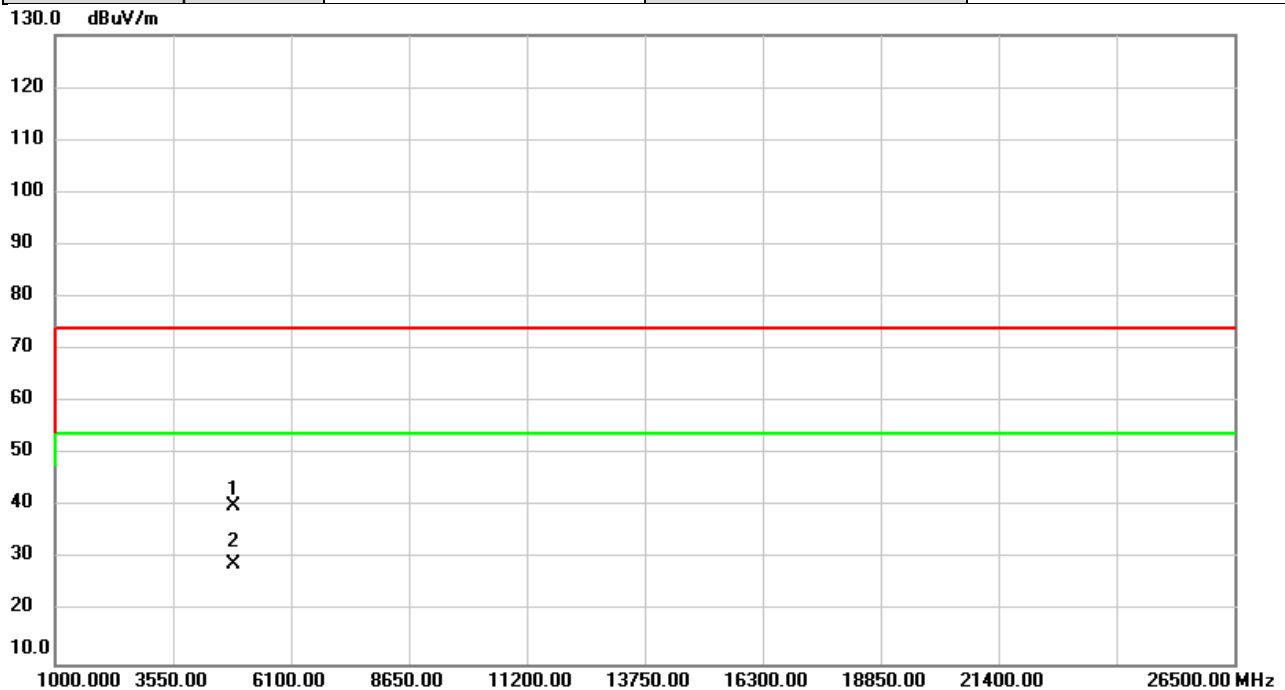


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	39.36	0.72	40.08	74.00	-33.92	peak	
2	*	4824.000	27.86	0.72	28.58	54.00	-25.42	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/8/22
Test Frequency	2437MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

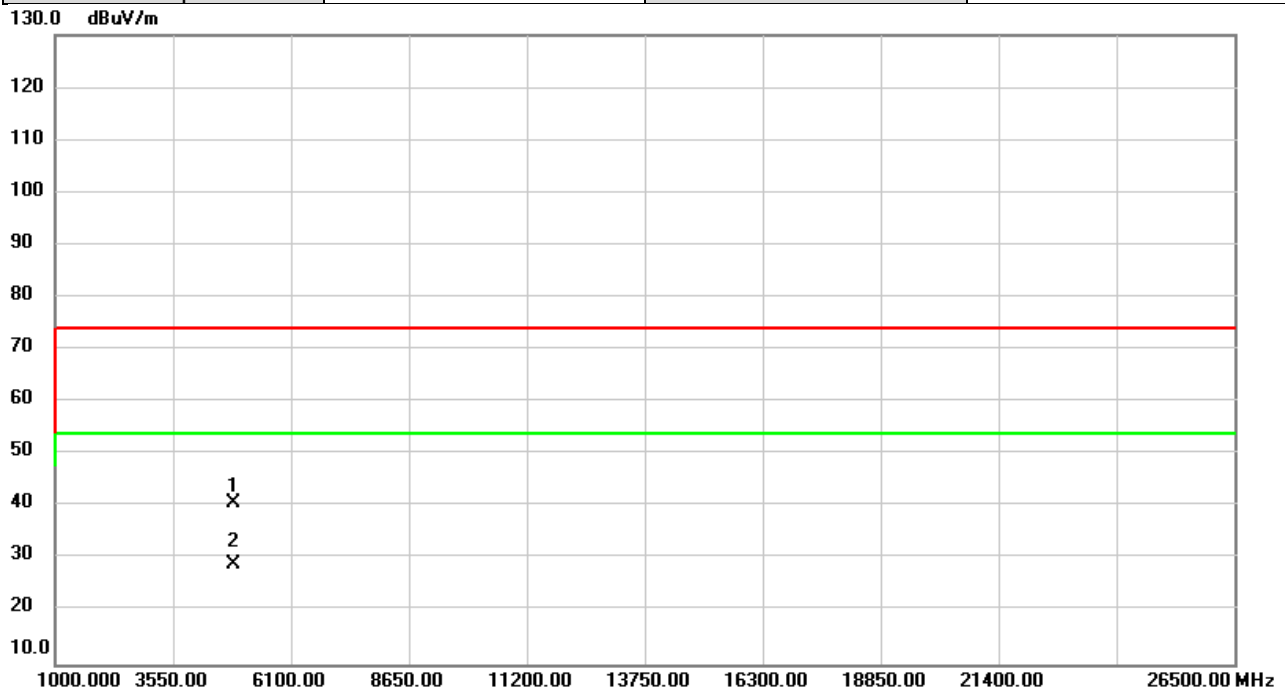


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.36	0.89	40.25	74.00	-33.75	peak	
2	*	4874.000	28.23	0.89	29.12	54.00	-24.88	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/8/22
Test Frequency	2437MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

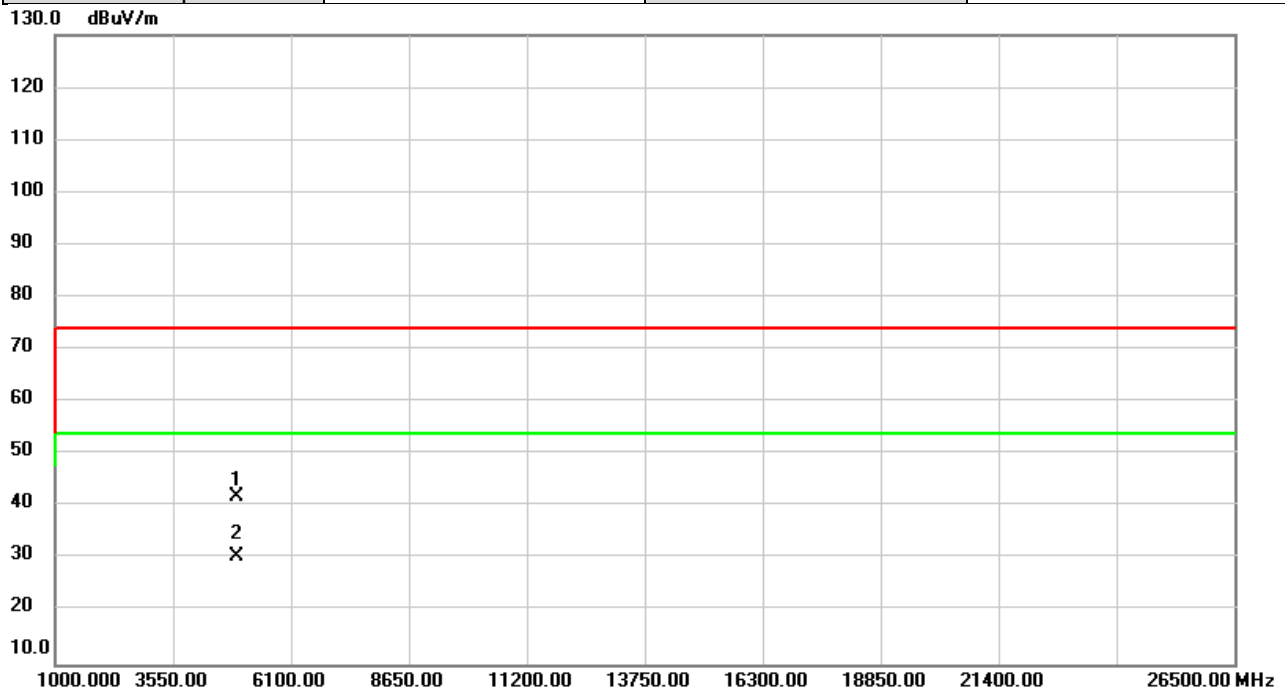


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.99	0.89	40.88	74.00	-33.12	peak	
2	*	4874.000	28.18	0.89	29.07	54.00	-24.93	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/8/22
Test Frequency	2462MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

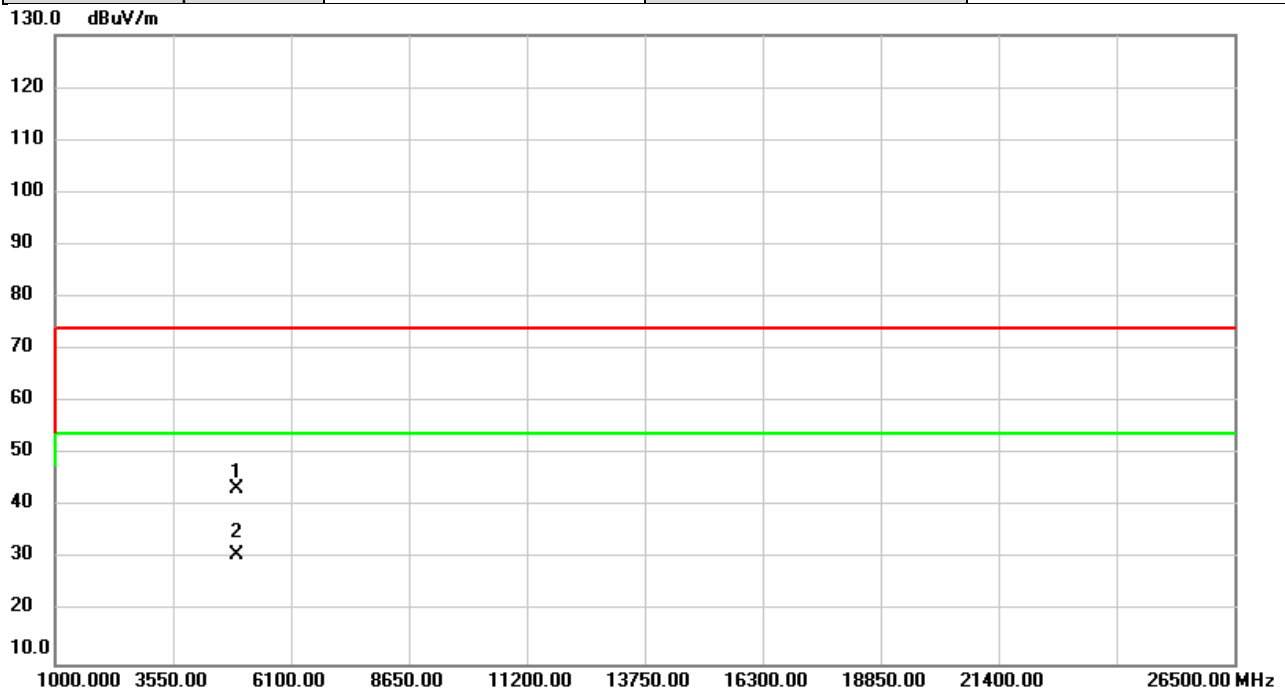


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	40.80	1.07	41.87	74.00	-32.13	peak	
2	*	4924.000	29.53	1.07	30.60	54.00	-23.40	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2022/8/22
Test Frequency	2462MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

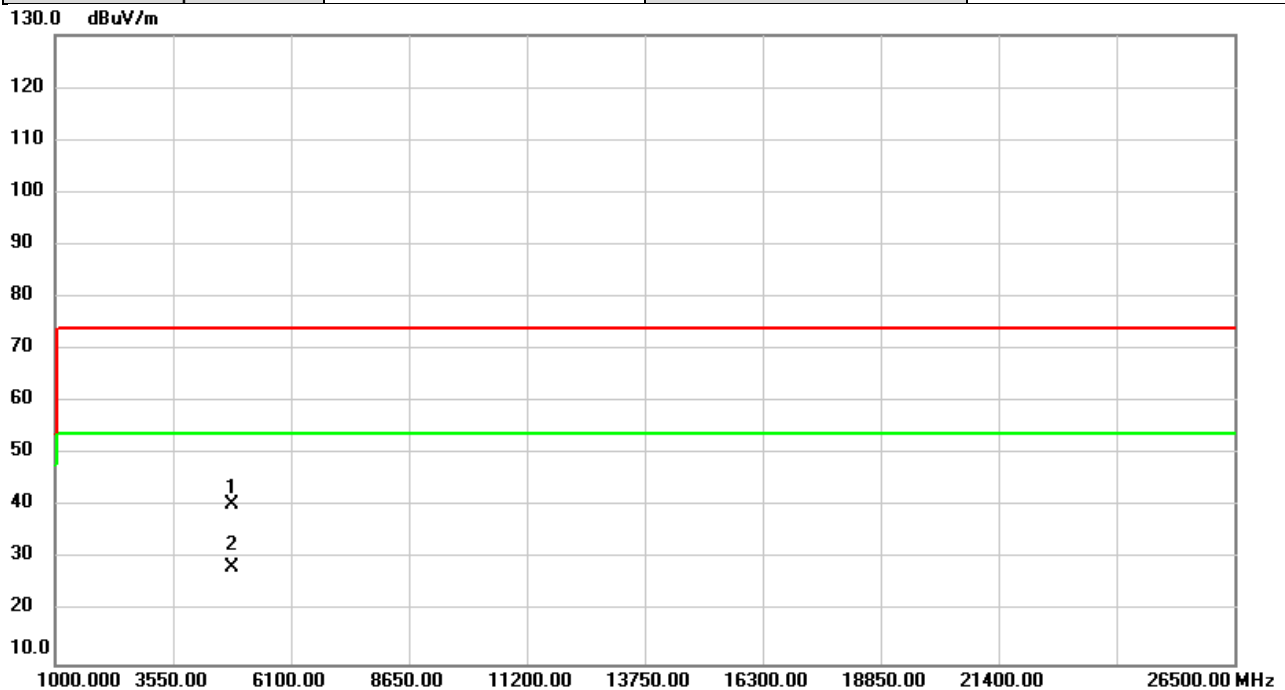


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	42.26	1.07	43.33	74.00	-30.67	peak	
2	*	4924.000	29.68	1.07	30.75	54.00	-23.25	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/8/22
Test Frequency	2412MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

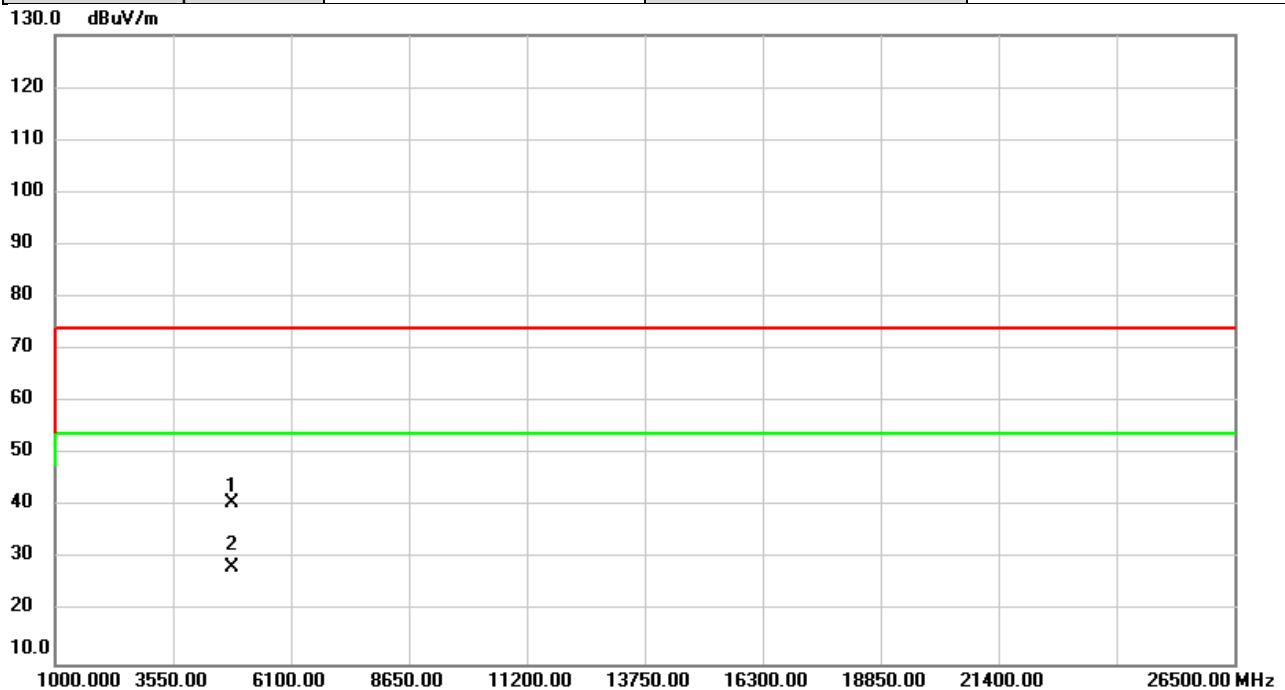


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	39.86	0.72	40.58	74.00	-33.42	peak	
2	*	4824.000	27.80	0.72	28.52	54.00	-25.48	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/8/22
Test Frequency	2412MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

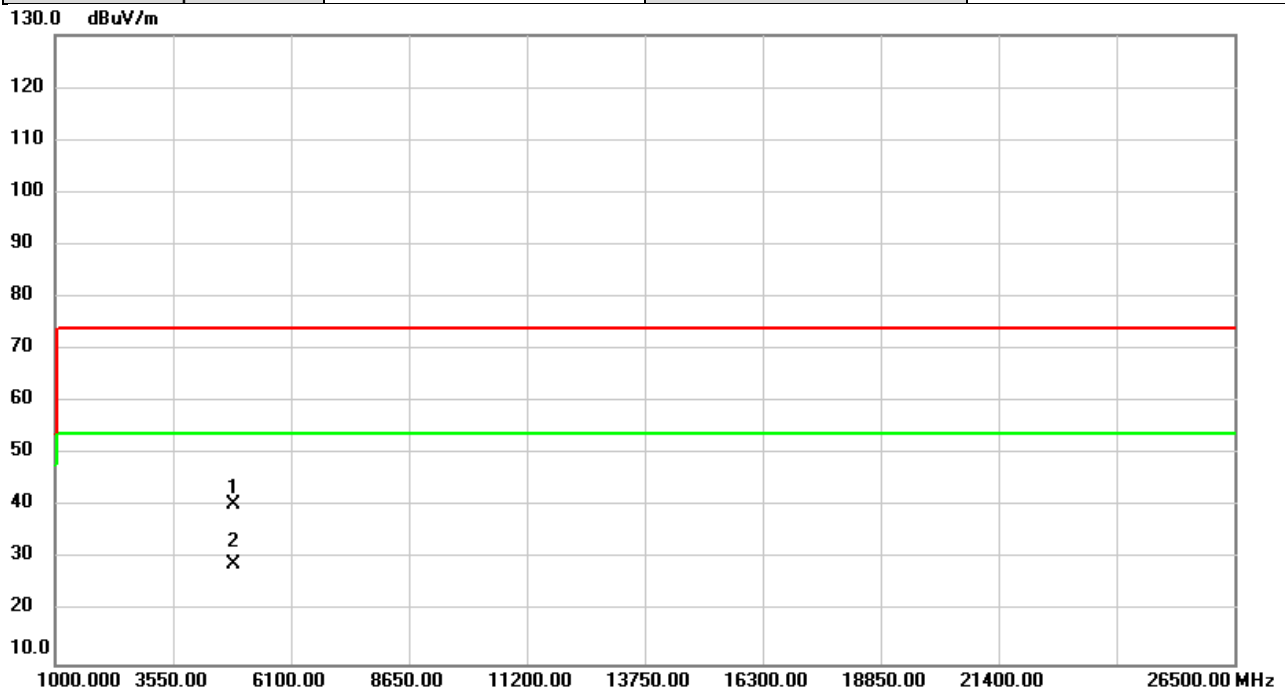


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	39.97	0.72	40.69	74.00	-33.31	peak	
2	*	4824.000	27.77	0.72	28.49	54.00	-25.51	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/8/22
Test Frequency	2437MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

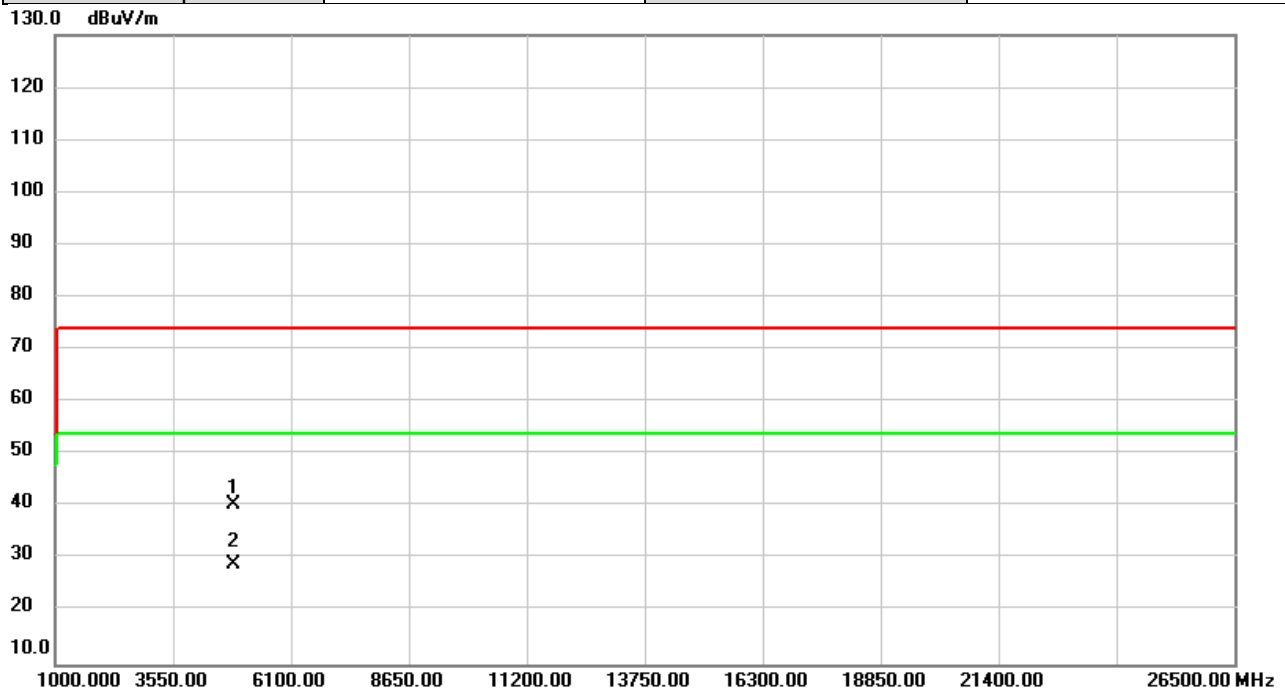


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.58	0.89	40.47	74.00	-33.53	peak	
2	*	4874.000	28.24	0.89	29.13	54.00	-24.87	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/8/22
Test Frequency	2437MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

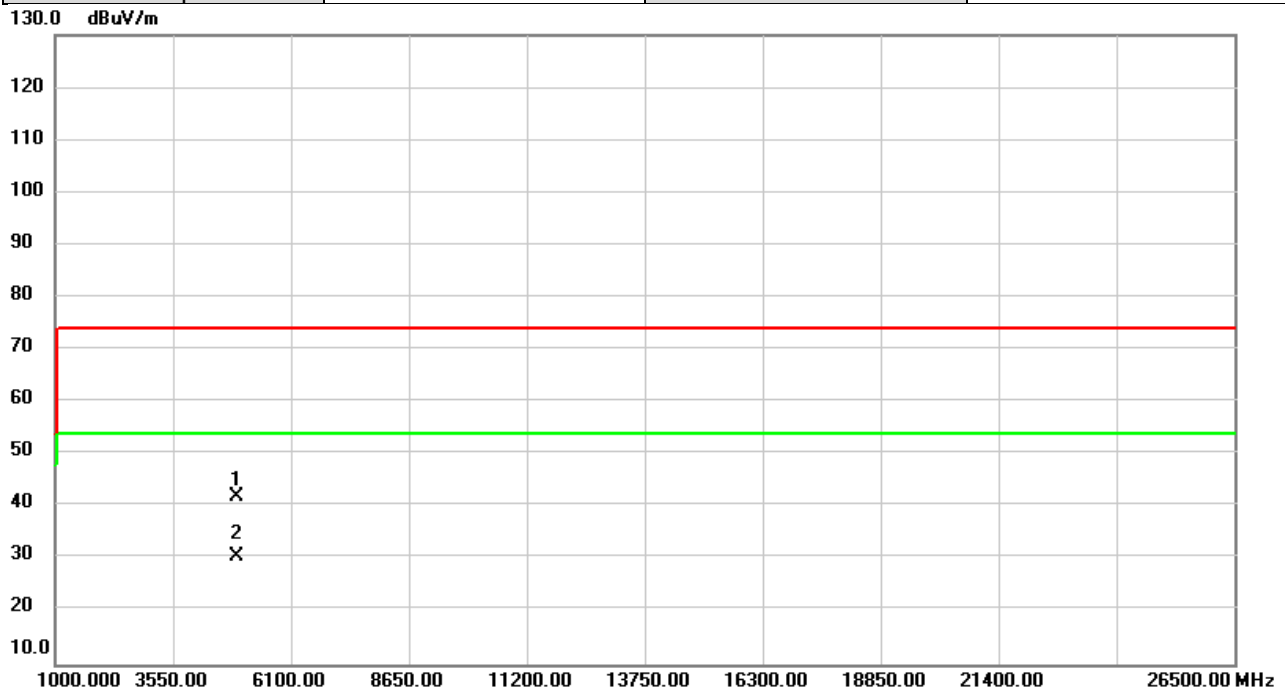


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.53	0.89	40.42	74.00	-33.58	peak	
2	*	4874.000	28.16	0.89	29.05	54.00	-24.95	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/8/22
Test Frequency	2462MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

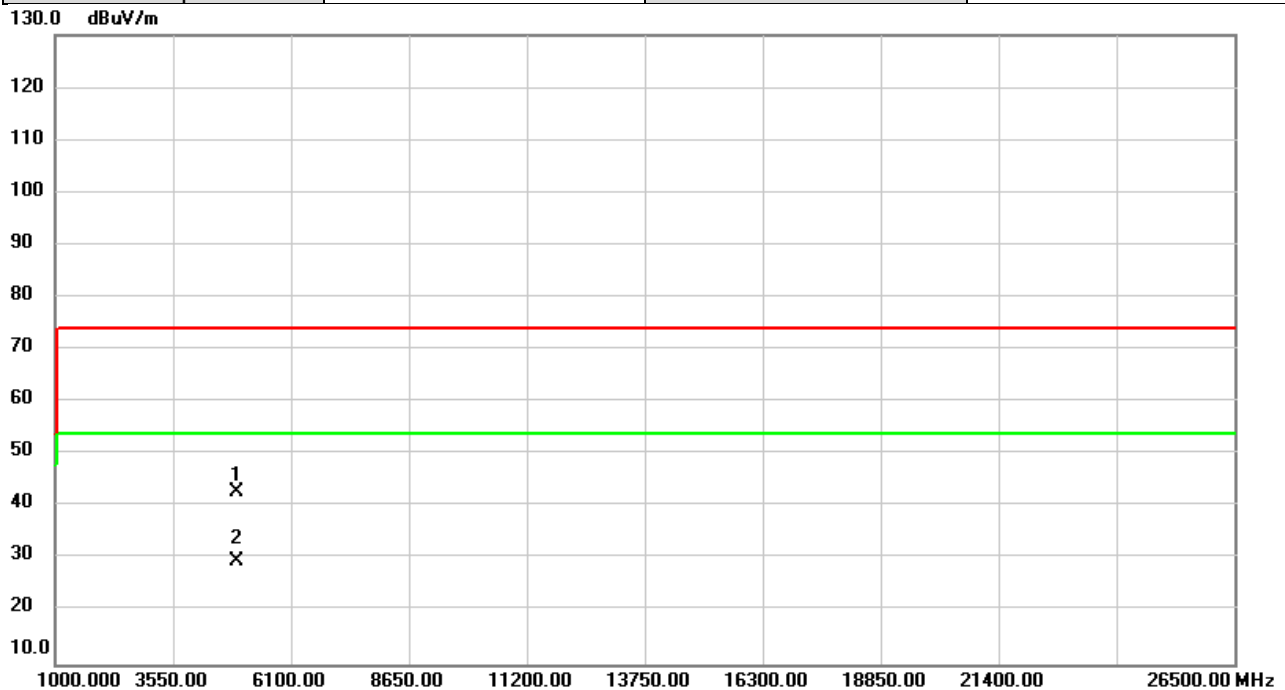


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	40.82	1.07	41.89	74.00	-32.11	peak	
2	*	4924.000	29.56	1.07	30.63	54.00	-23.37	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2022/8/22
Test Frequency	2462MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

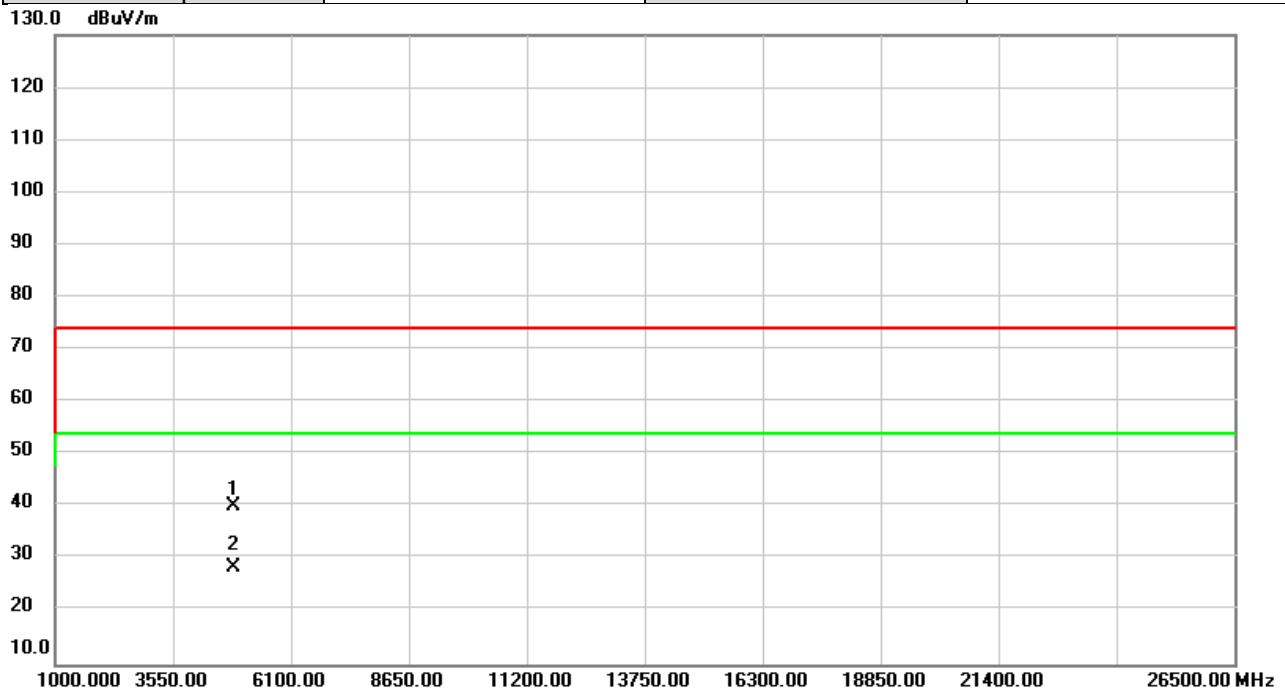


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	41.70	1.07	42.77	74.00	-31.23	peak	
2	*	4924.000	28.54	1.07	29.61	54.00	-24.39	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/8/22
Test Frequency	2422MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

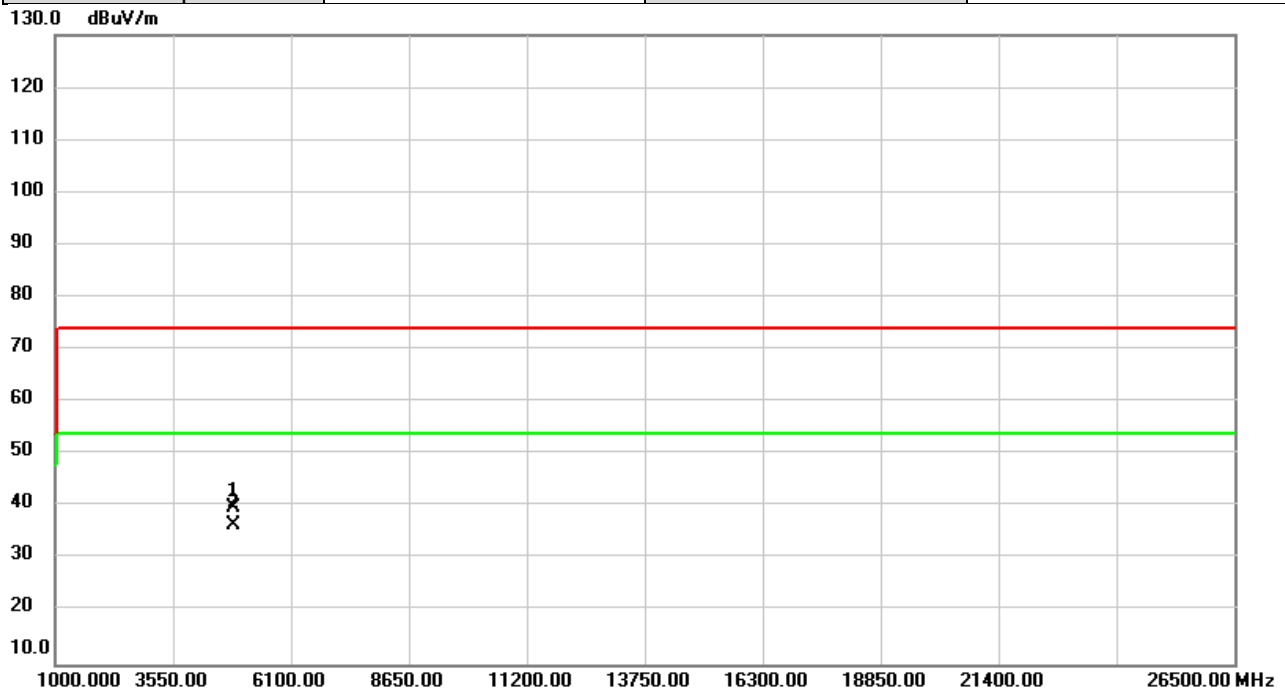


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	39.49	0.78	40.27	74.00	-33.73	peak	
2	*	4844.000	27.61	0.78	28.39	54.00	-25.61	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/8/22
Test Frequency	2422MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

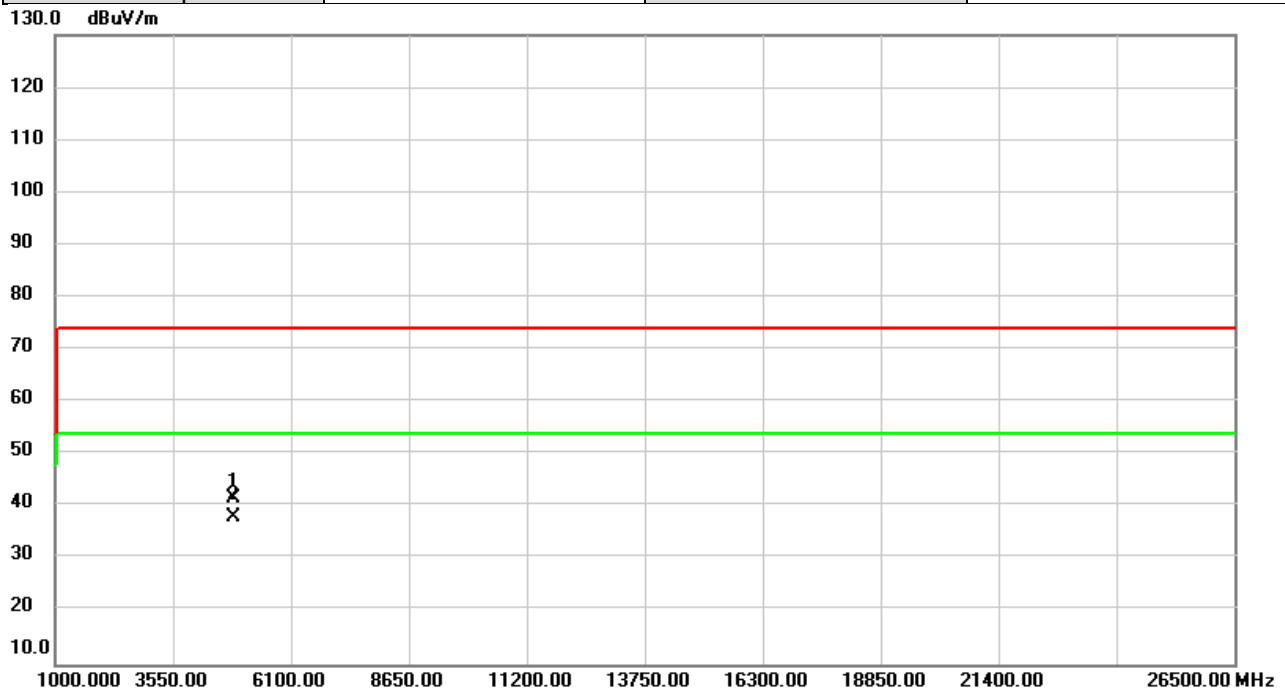


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	39.01	0.78	39.79	74.00	-34.21	peak	
2	*	4844.000	35.70	0.78	36.48	54.00	-17.52	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/8/22
Test Frequency	2437MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

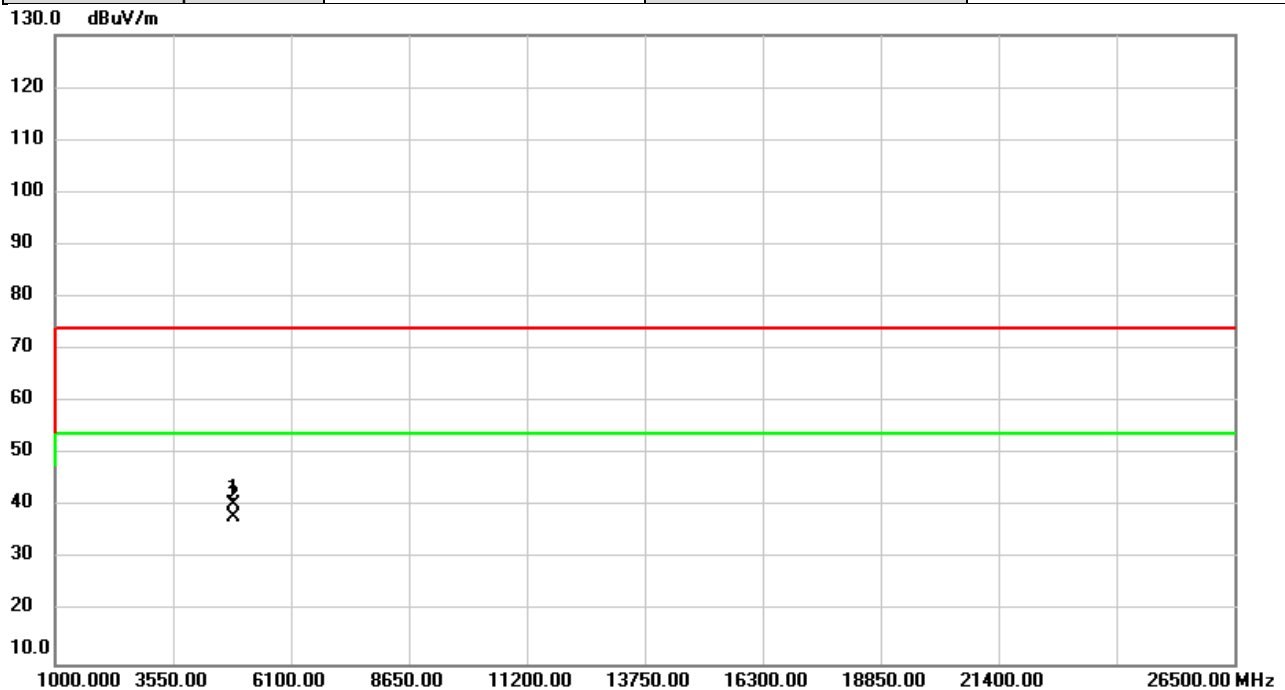


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	40.68	0.89	41.57	74.00	-32.43	peak	
2	*	4874.000	37.20	0.89	38.09	54.00	-15.91	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/8/22
Test Frequency	2437MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%

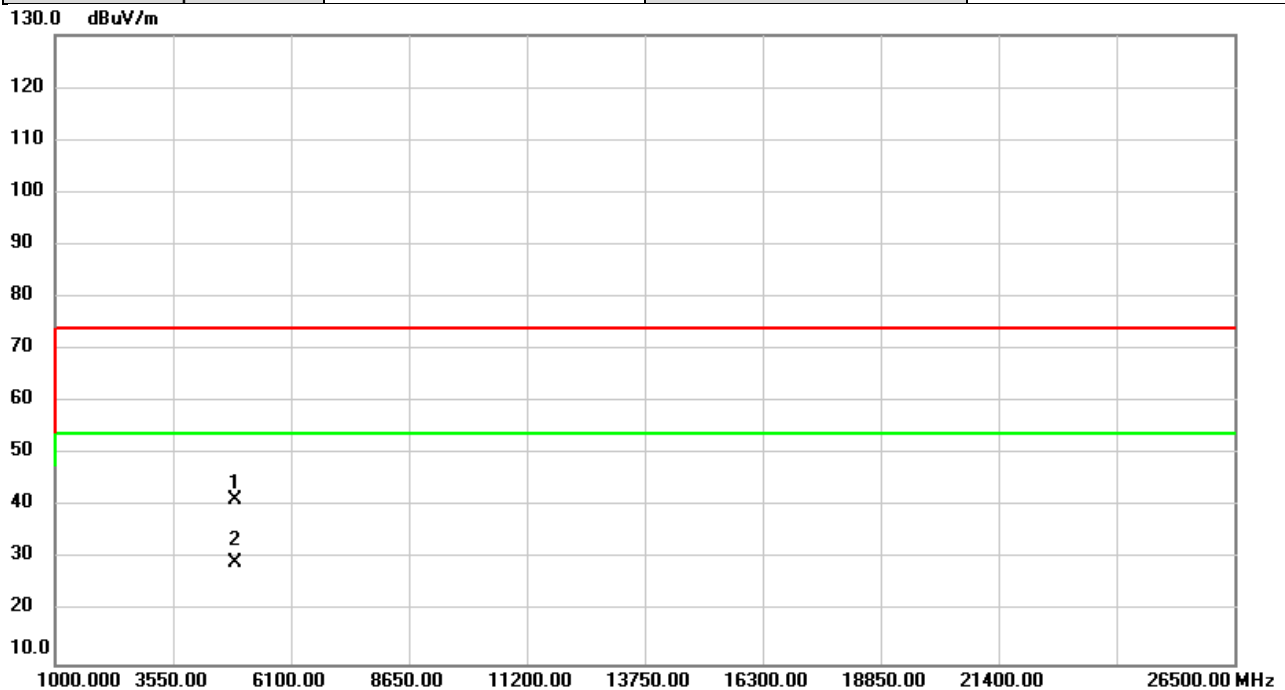


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.63	0.89	40.52	74.00	-33.48	peak	
2	*	4874.000	37.28	0.89	38.17	54.00	-15.83	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/8/22
Test Frequency	2452MHz	Polarization	Vertical
Temp	28°C	Hum.	62%

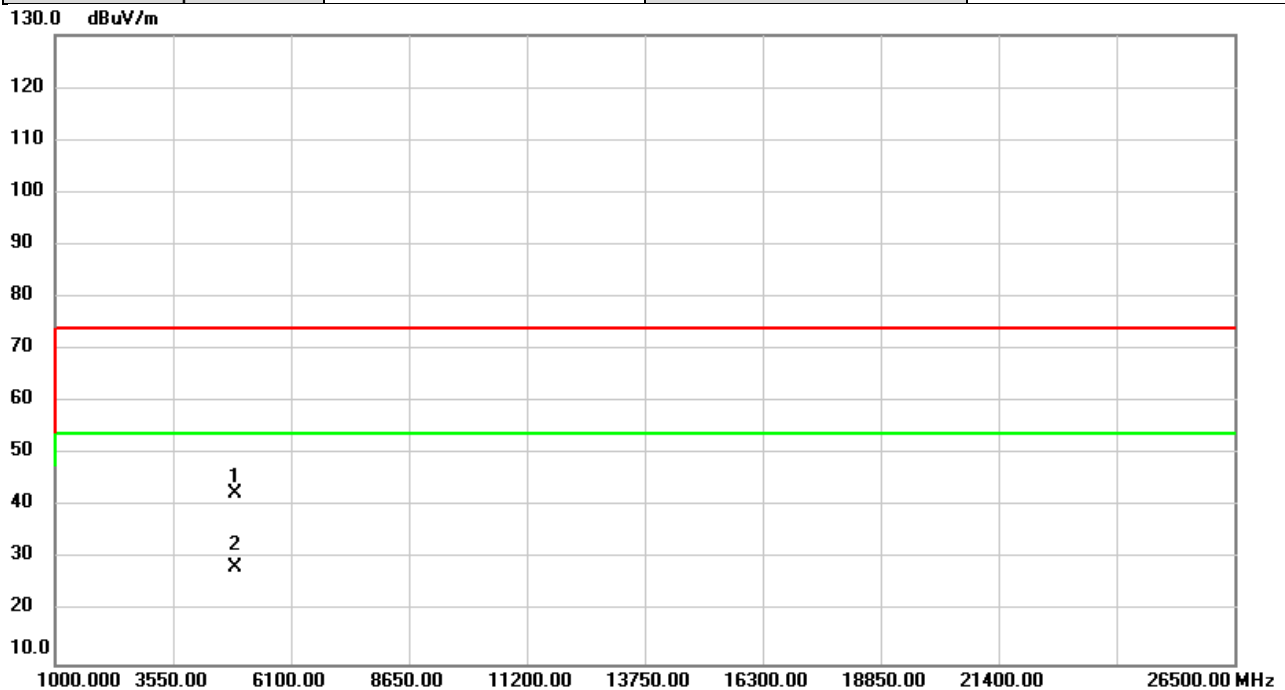


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	40.28	0.99	41.27	74.00	-32.73	peak	
2	*	4904.000	28.36	0.99	29.35	54.00	-24.65	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2022/8/22
Test Frequency	2452MHz	Polarization	Horizontal
Temp	28°C	Hum.	62%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	41.62	0.99	42.61	74.00	-31.39	peak	
2	*	4904.000	27.34	0.99	28.33	54.00	-25.67	AVG	

REMARKS:

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

End of Test Report