



TEST REPORT

Application No.: SHEM1911018604CR
FCC ID: OU5B1X501
Applicant: GE Medical System Information Technologies, Inc.
Address of Applicant: 9900 Innovation Drive, Wauwatosa, WI 53226 USA
Manufacturer: GE Medical System Information Technologies, Inc.
Address of Manufacturer: 9900 Innovation Drive, Wauwatosa, WI 53226 USA
Factory: GE Medical Systems (China) Co., Ltd.
Address of Factory: No.19 Changjiang Road, Wuxi, Jiangsu, China
Equipment Under Test (EUT):
EUT Name: B1X5 Wi-Fi Module
Model No.: B1X5-01
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2019-11-06
Date of Test: 2020-01-15 to 2020-03-19
Date of Issue: 2020-04-01

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.

Parlan Zhan

Parlan Zhan
E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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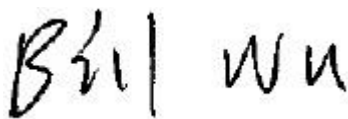
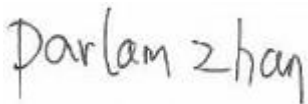
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center EMC Laboratory

NO.588 West Jindu Road, Songjiang District, Shanghai, China 201612
中国·上海·松江区金都西路588号 邮编: 201612

t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn
t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com



Revision Record			
Version	Description	Date	Remark
00	Original	2020-04-01	/

Authorized for issue by:			
			
		Bill Wu / Project Engineer	
			
		Parlam Zhan / Reviewer	

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Customer Declaration

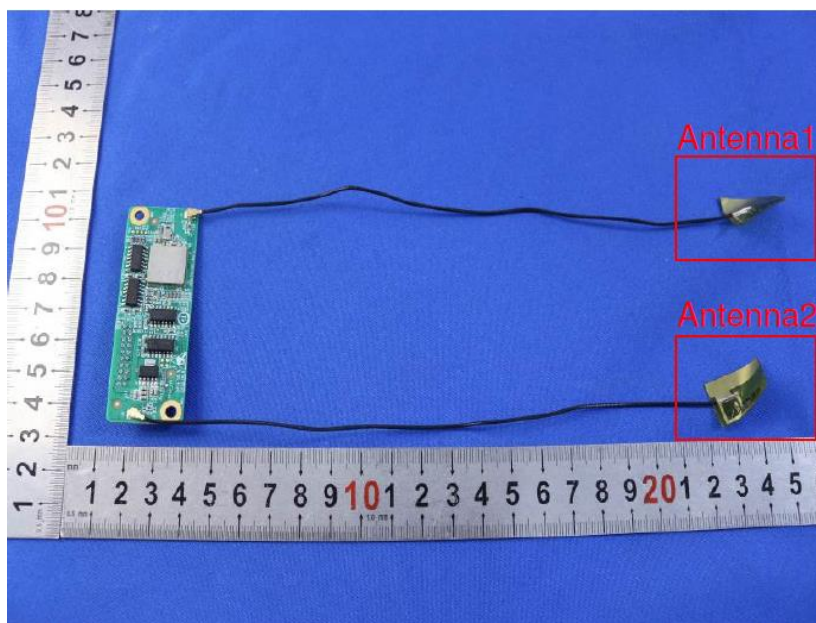
Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass

Remark: This C2PC only added New antenna, So we just fully retest RSE for this product, other test data reference to original module report SZEM180800762101.

Updated antenna as below:

Original:

antenna gain 2.4GWiFi Antenna 1/Antenna 2: 2.2dBi
 5GWiFi Antenna 1:4.5dBi
Antenna type PIFA Antenna
Antenna photo



New:

antenna gain

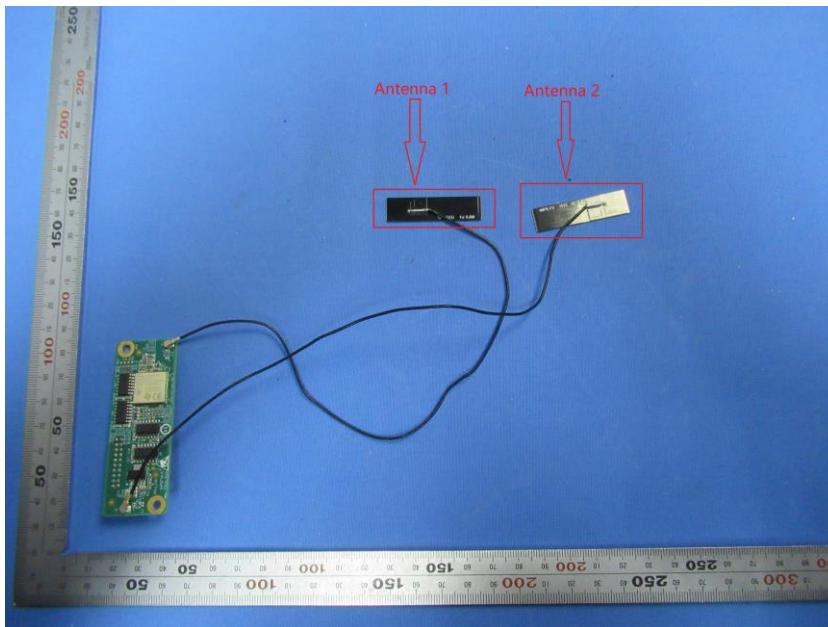
2.4GWiFi Antenna1/Antenna2:3.2dBi

5GWiFi Antenna 1:4.5dBi

Antenna type

FPC Antenna

Antenna photo





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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V from test board
Test voltage:	DC 5V
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Antenna Gain	Antenna 1:3.2dBi Antenna 2:3.2dBi (Note: Both antennas does not have correlated)
Antenna Type	FPC Antenna
Channel Spacing	5MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels	802.11b/g/n(HT20):11 802.11n(HT40):7

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Main board	GE	/	/
Laptop	Lenovo	ThinkPad X100e	/

4.3 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
1	15	15	15
6	15	15	15
11	15	15	15
Channel	802.11n(HT40)		
3	15		
6	15		
9	15		

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 8.4 \times 10^{-8}$
2	Timeout	$\pm 2s$
3	Duty cycle	$\pm 0.37\%$
4	Occupied Bandwidth	$\pm 3\%$
5	RF conducted power	$\pm 0.6dB$
6	RF power density	$\pm 2.84dB$
7	Conducted Spurious emissions	$\pm 0.75dB$
8	RF Radiated power	$\pm 4.6dB$ (Below 1GHz)
		$\pm 4.1dB$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.2dB$ (Below 30MHz)
		$\pm 4.4dB$ (30MHz-1GHz)
		$\pm 4.8dB$ (1GHz-18GHz)
		$\pm 5.2dB$ (Above 18GHz)
10	Temperature test	$\pm 1^{\circ}C$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **NVLAP (LAB CODE: 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

- **FCC (Designation Number: CN5033)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2019-12-20	2020-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2019-08-13	2020-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2019-08-13	2020-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2019-08-13	2020-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2019-08-13	2020-08-12
Switcher	Tonscend	JS0806	SHEM184-1	2019-08-13	2020-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2019-08-13	2020-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-25	2020-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2019-12-20	2020-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2019-12-20	2020-12-19
Conducted test Cable	/	RF01~RF04	/	2019-12-20	2020-12-19
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2019-12-20	2020-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2019-12-20	2020-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2019-12-20	2020-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2019-10-14	2021-10-13
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2019-04-30	2021-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2019-10-14	2021-10-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-10-31	2020-10-30
Pre-amplifier (9kHz-2GHz)	CLAVIO	BDLNA-0001	SHEM164-1	2019-08-13	2020-08-12
Pre-amplifier (1-18GHz)	CLAVIO	BDLNA-0118	SHEM050-2	2019-08-13	2020-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2019-12-20	2020-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2019-08-13	2020-08-12
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2019-12-20	2020-12-19

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

6.1.2 Conclusion

Standard Requirement:

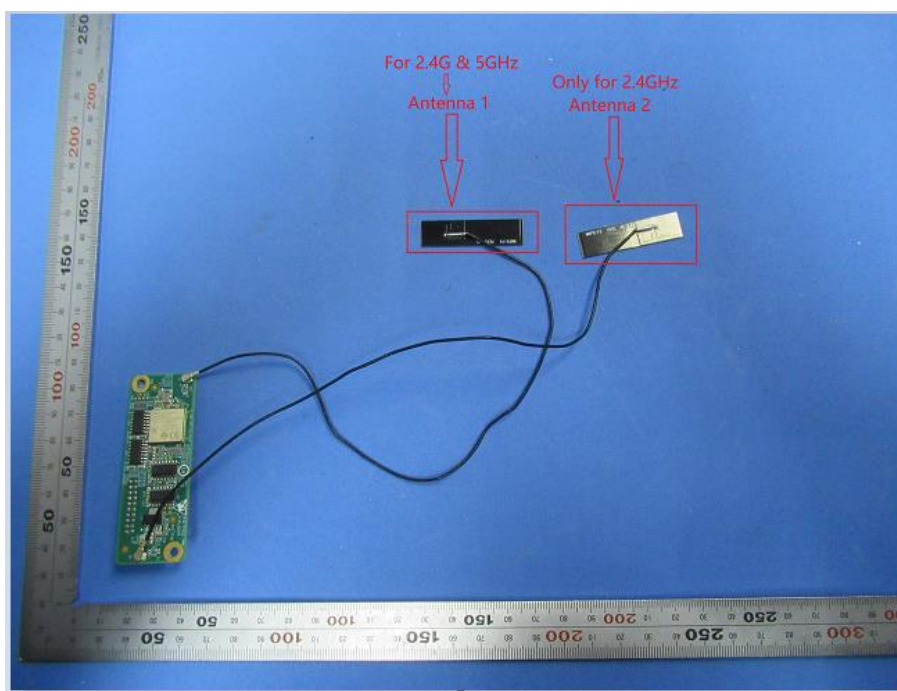
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is FPC antenna and no consideration of replacement. The best case gain of the antenna is 3.2dBi.





7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

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
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

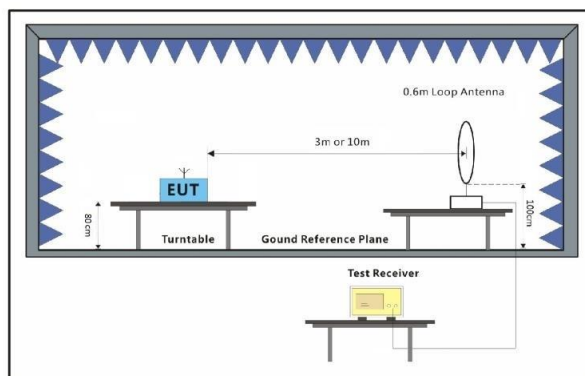
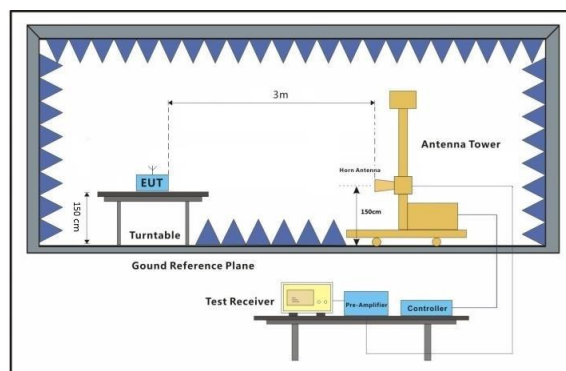
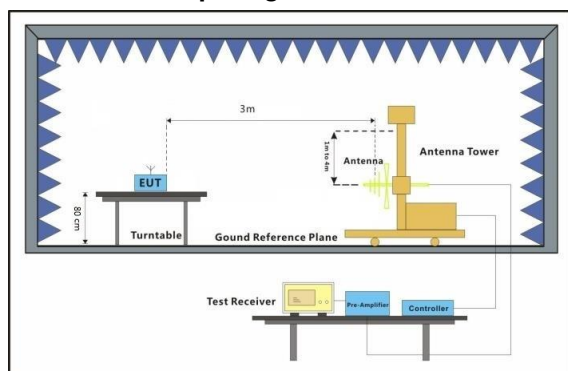
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

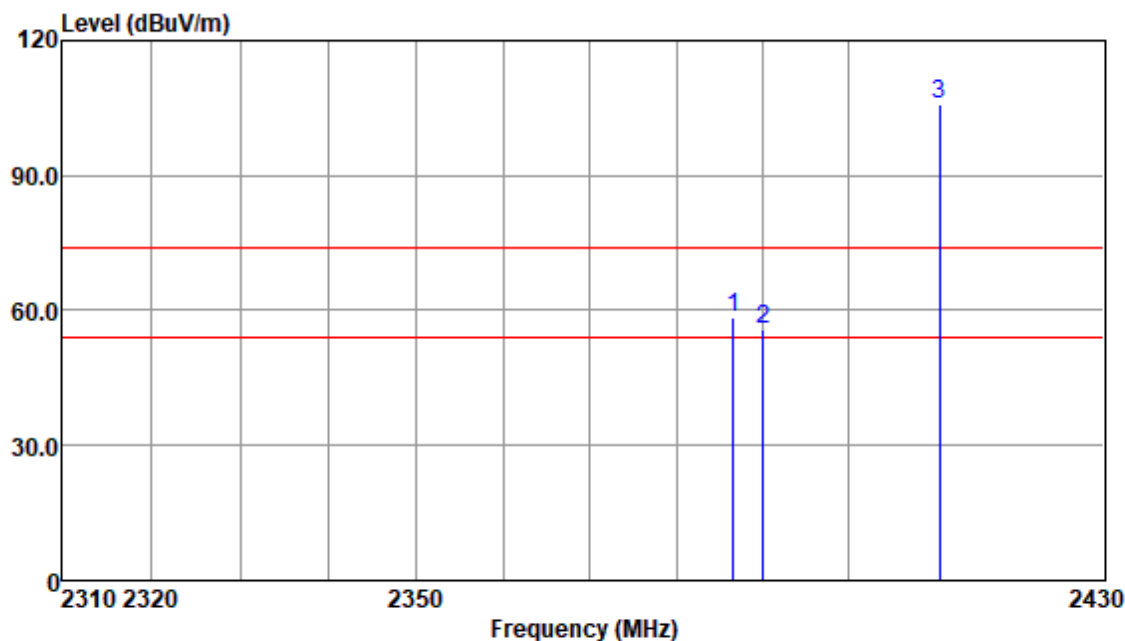
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: This test item was investigated while operating in SISO mode of both two antennas, however, it was determined that SISO antenna 1 operation for b/g/n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low

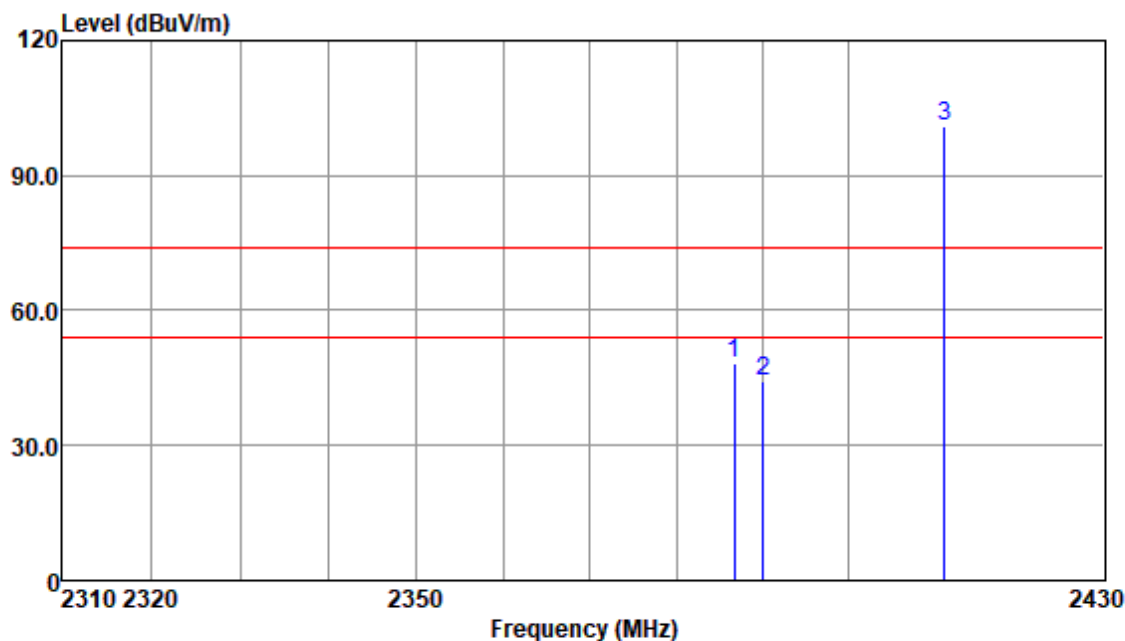


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2386.58	29.11	26.03	3.16	58.30	74.00	-15.70	Peak
2390.00	26.66	26.03	3.15	55.84	74.00	-18.16	Peak
2410.63	76.79	26.06	3.13	105.98	74.00	31.98	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low

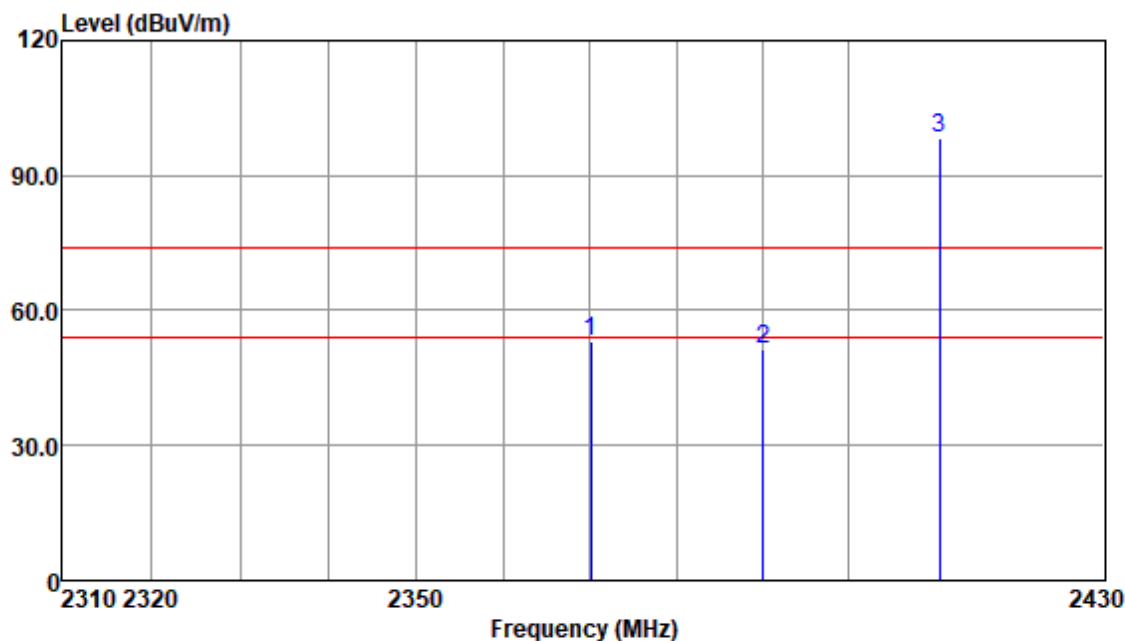


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2386.70	19.13	26.03	3.16	48.32	54.00	-5.68	Average
2390.00	15.06	26.03	3.15	44.24	54.00	-9.76	Average
2411.24	71.83	26.08	3.13	101.04	54.00	47.04	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low

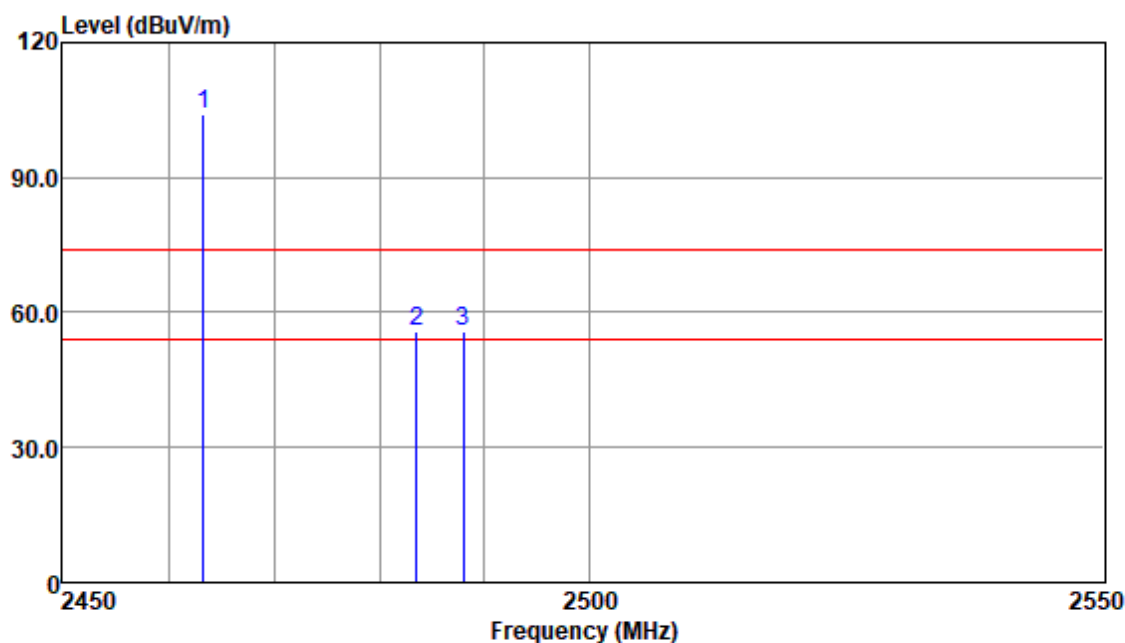


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
2370.08	23.80	26.01	3.17	52.98	74.00	-21.02	Peak
2390.00	22.15	26.03	3.15	51.33	74.00	-22.67	Peak
2410.63	69.25	26.06	3.13	98.44	74.00	24.44	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High

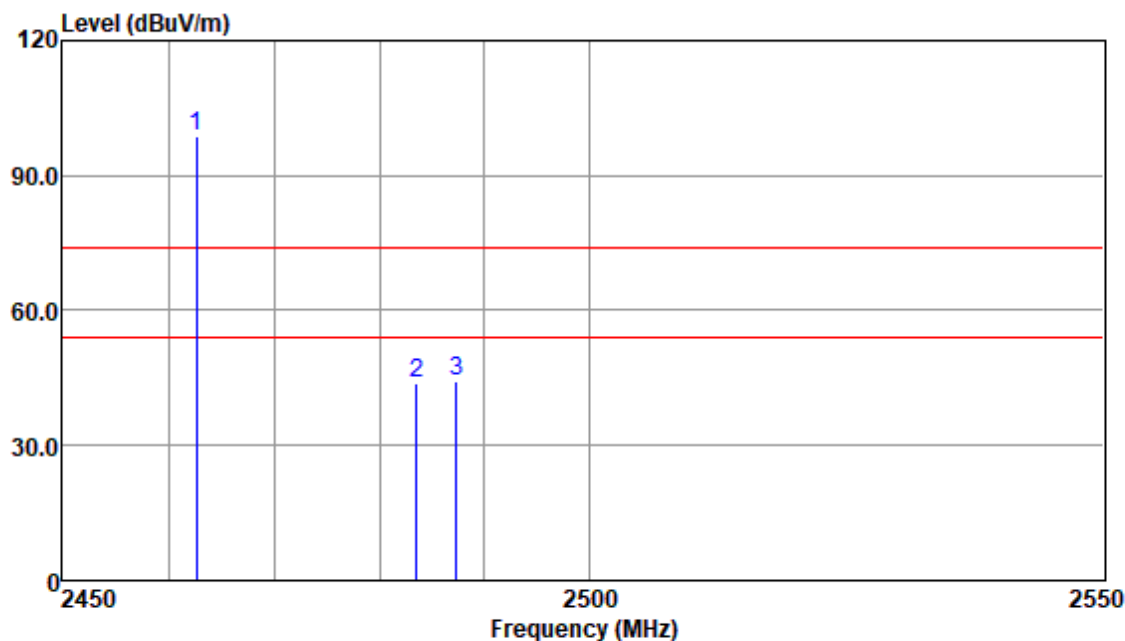


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2463.27	74.60	26.15	3.13	103.88	74.00	29.88	Peak
2483.50	26.41	26.18	3.14	55.73	74.00	-18.27	Peak
2488.03	26.44	26.18	3.14	55.76	74.00	-18.24	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High

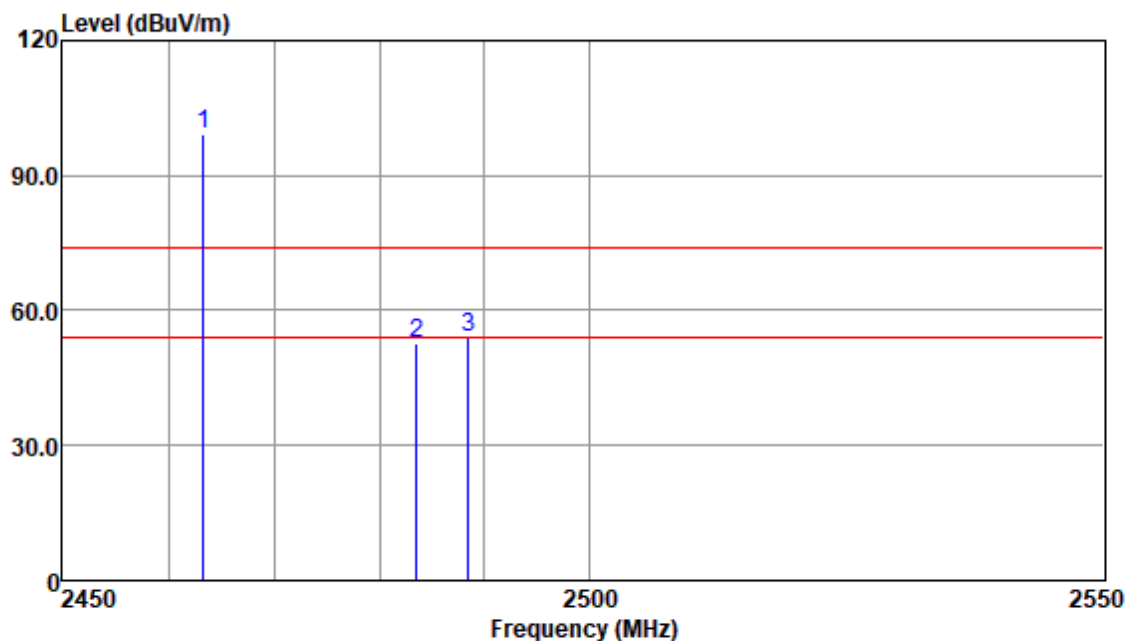


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2462.68	69.39	26.15	3.13	98.67	54.00	44.67	Average
2483.50	14.68	26.18	3.14	44.00	54.00	-10.00	Average
2487.33	15.18	26.18	3.14	44.50	54.00	-9.50	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High

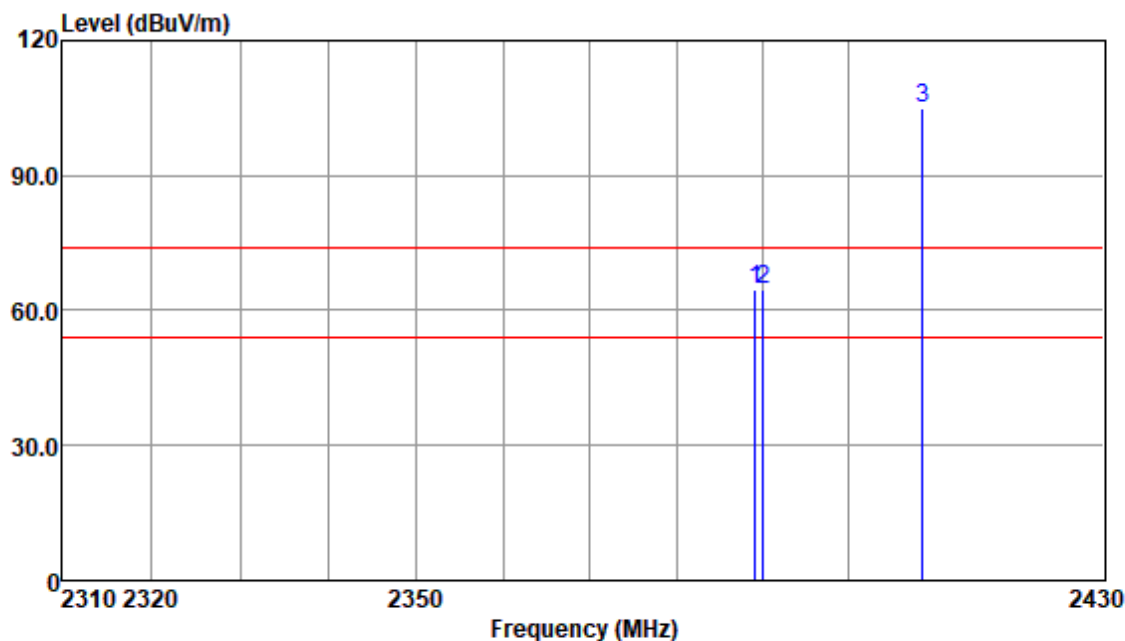


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2463.27	69.96	26.15	3.13	99.24	74.00	25.24	Peak
2483.50	23.41	26.18	3.14	52.73	74.00	-21.27	Peak
2488.53	24.61	26.18	3.14	53.93	74.00	-20.07	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low

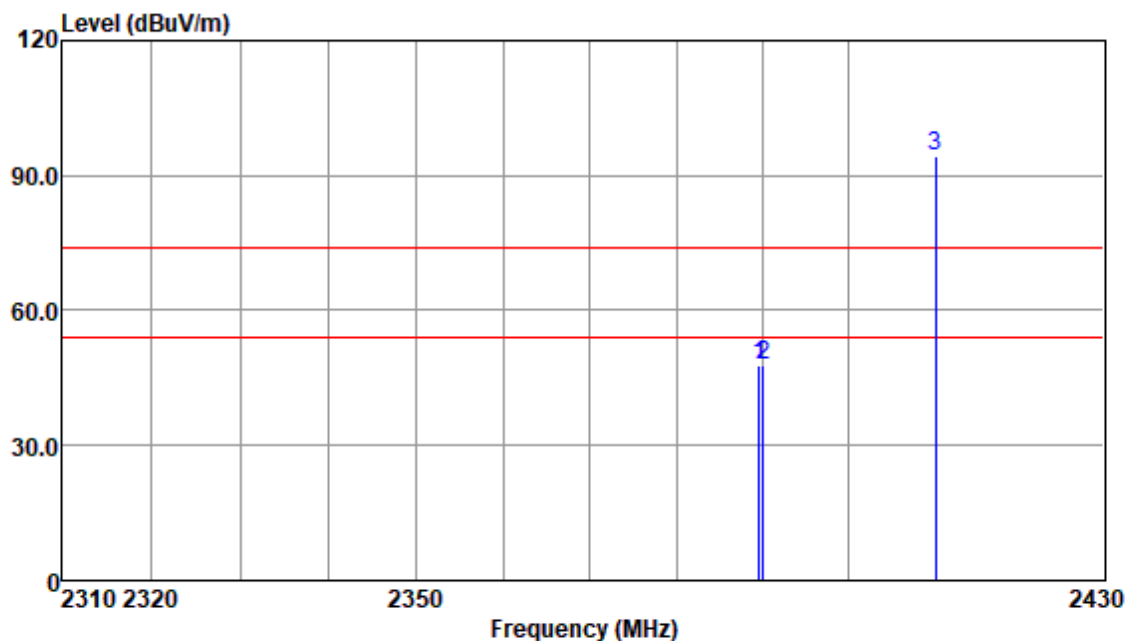


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2389.12	35.35	26.03	3.15	64.53	74.00	-9.47	Peak
2390.00	35.46	26.03	3.15	64.64	74.00	-9.36	Peak
2408.68	75.74	26.06	3.14	104.94	74.00	30.94	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low

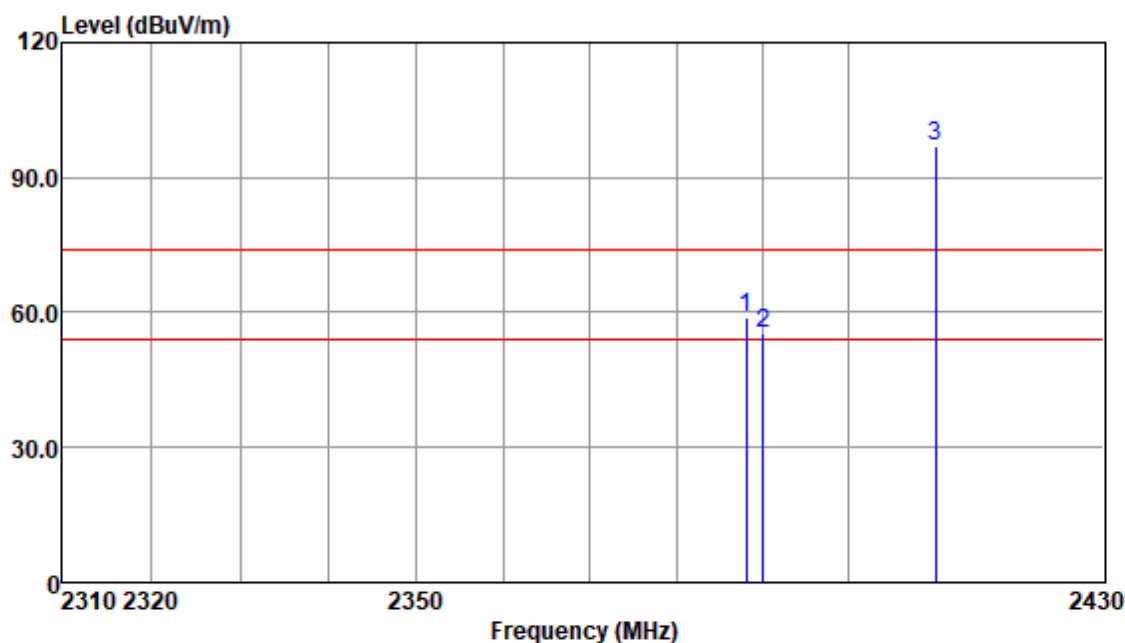


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2389.61	18.57	26.03	3.15	47.75	54.00	-6.25	Average
2390.00	18.77	26.03	3.15	47.95	54.00	-6.05	Average
2410.15	65.32	26.06	3.13	94.51	54.00	40.51	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low

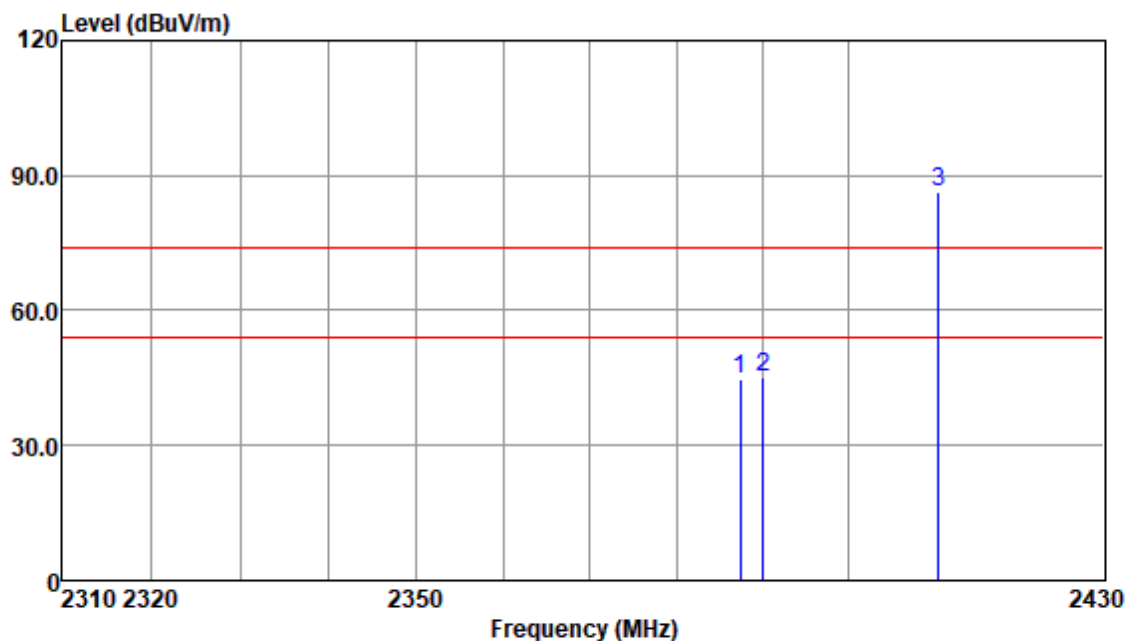


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2388.03	29.73	26.03	3.15	58.91	74.00	-15.09	Peak
2390.00	26.08	26.03	3.15	55.26	74.00	-18.74	Peak
2410.15	67.97	26.06	3.13	97.16	74.00	23.16	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low

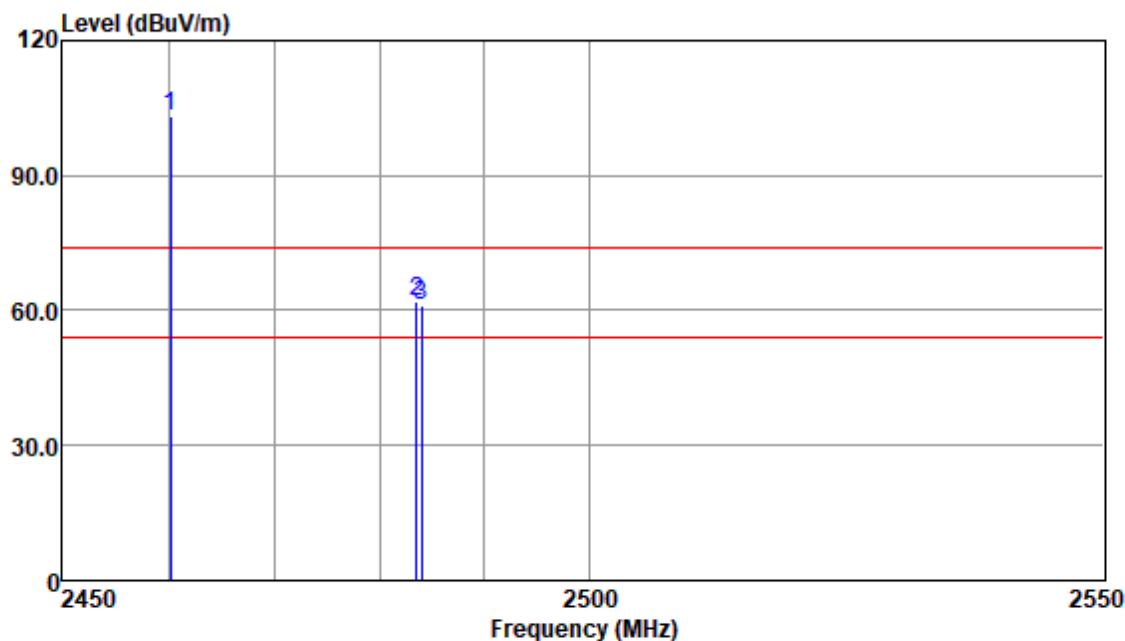


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2387.43	15.49	26.03	3.16	44.68	54.00	-9.32	Average
2390.00	15.86	26.03	3.15	45.04	54.00	-8.96	Average
2410.51	57.01	26.06	3.13	86.20	54.00	32.20	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High

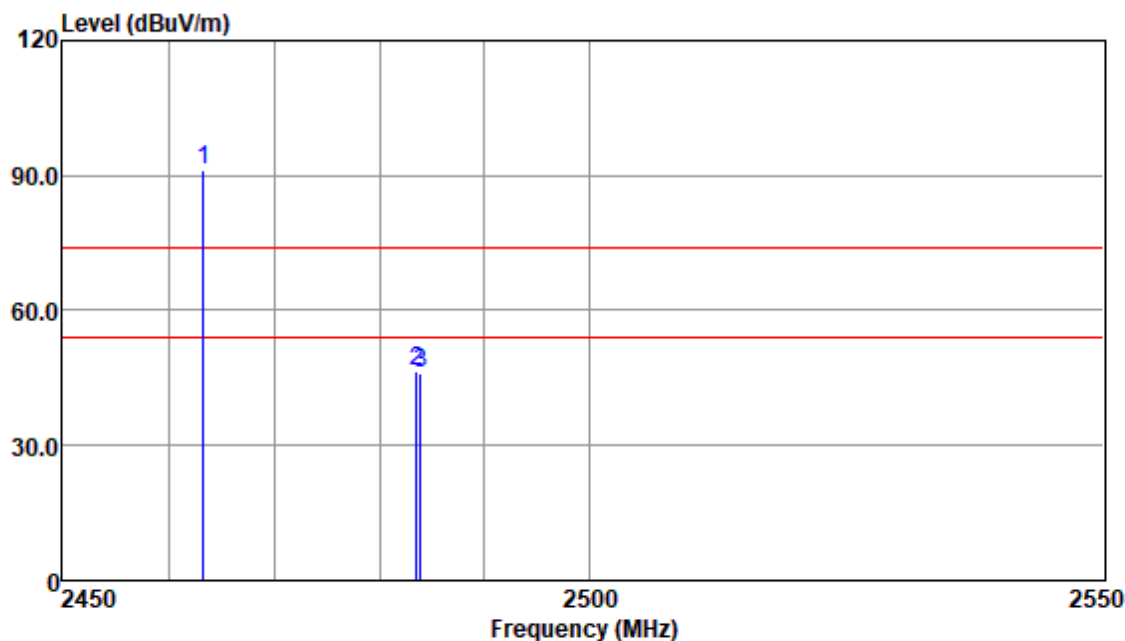


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2460.22	73.71	26.14	3.13	102.98	74.00	28.98	Peak
2483.50	32.49	26.18	3.14	61.81	74.00	-12.19	Peak
2484.05	31.58	26.18	3.14	60.90	74.00	-13.10	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High

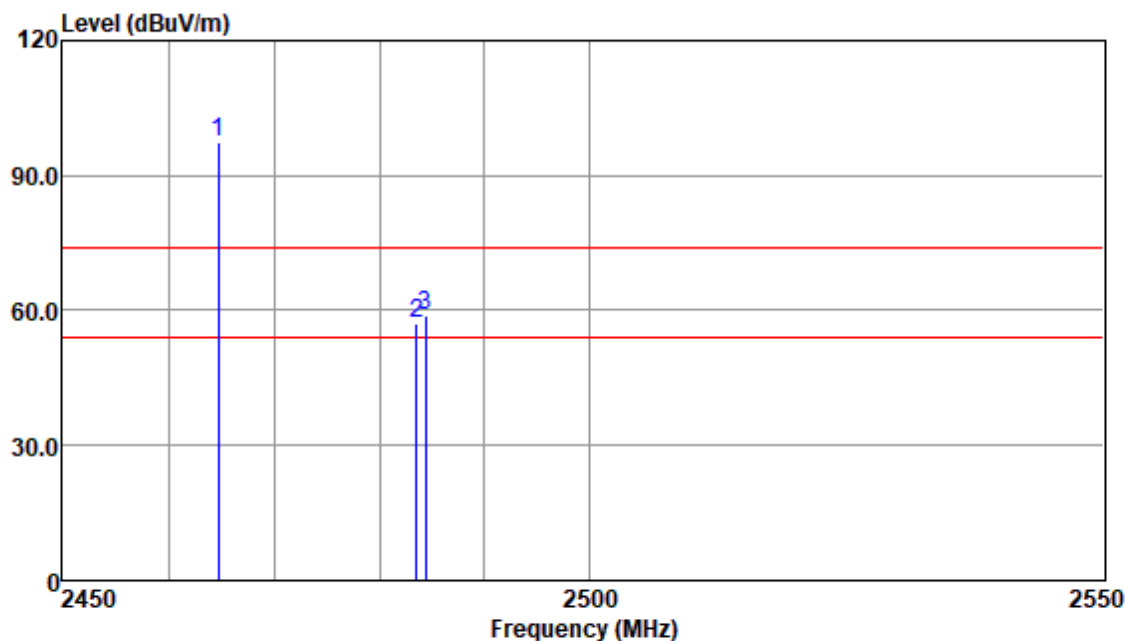


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
2463.27	62.13	26.15	3.13	91.41	54.00	37.41	Average
2483.50	17.12	26.18	3.14	46.44	54.00	-7.56	Average
2483.95	16.92	26.18	3.14	46.24	54.00	-7.76	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High

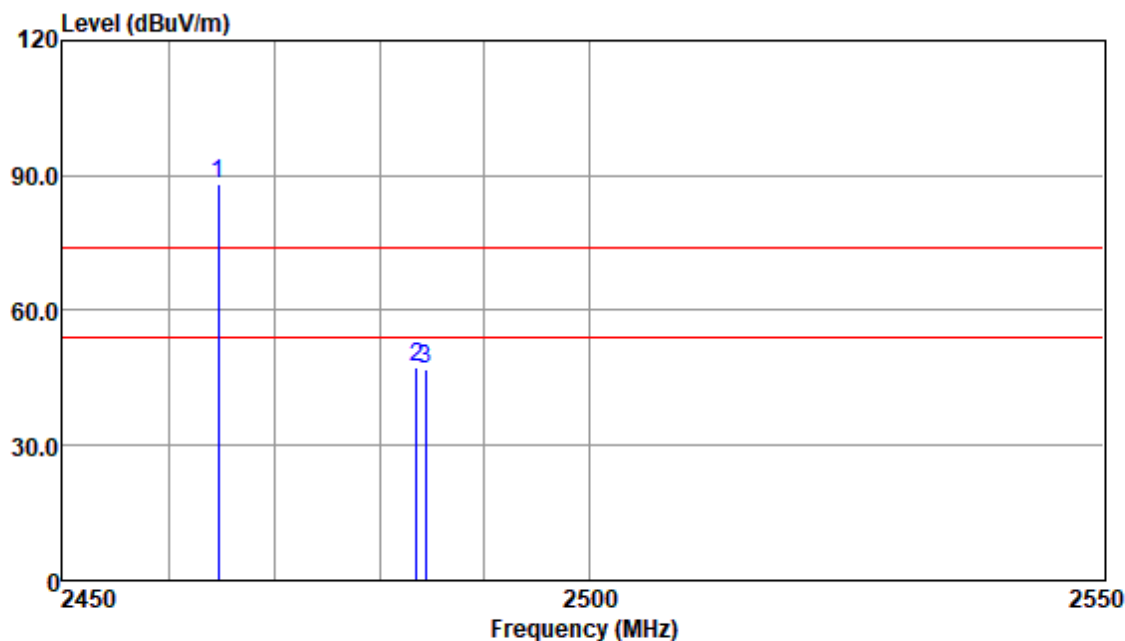


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2464.75	67.92	26.15	3.13	97.20	74.00	23.20	Peak
2483.50	27.76	26.18	3.14	57.08	74.00	-16.92	Peak
2484.35	29.54	26.18	3.14	58.86	74.00	-15.14	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High

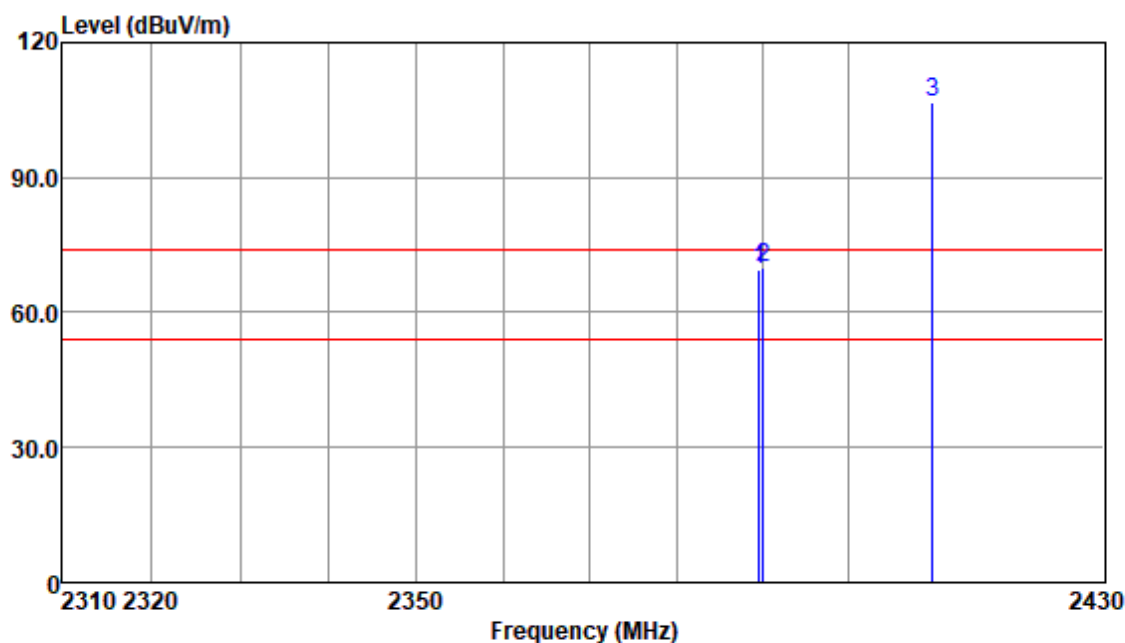


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2464.75	58.67	26.15	3.13	87.95	54.00	33.95	Average
2483.50	17.86	26.18	3.14	47.18	54.00	-6.82	Average
2484.35	17.76	26.18	3.14	47.08	54.00	-6.92	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

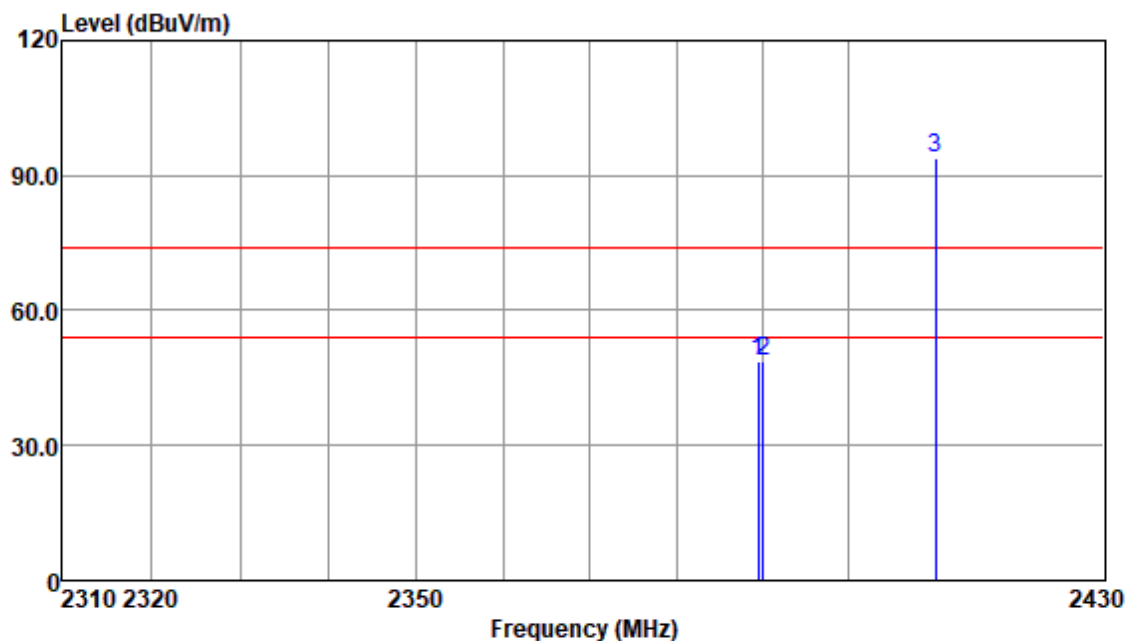


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2389.61	40.31	26.03	3.15	69.49	74.00	-4.51	Peak
2390.00	40.58	26.03	3.15	69.76	74.00	-4.24	Peak
2409.78	77.39	26.06	3.13	106.58	74.00	32.58	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

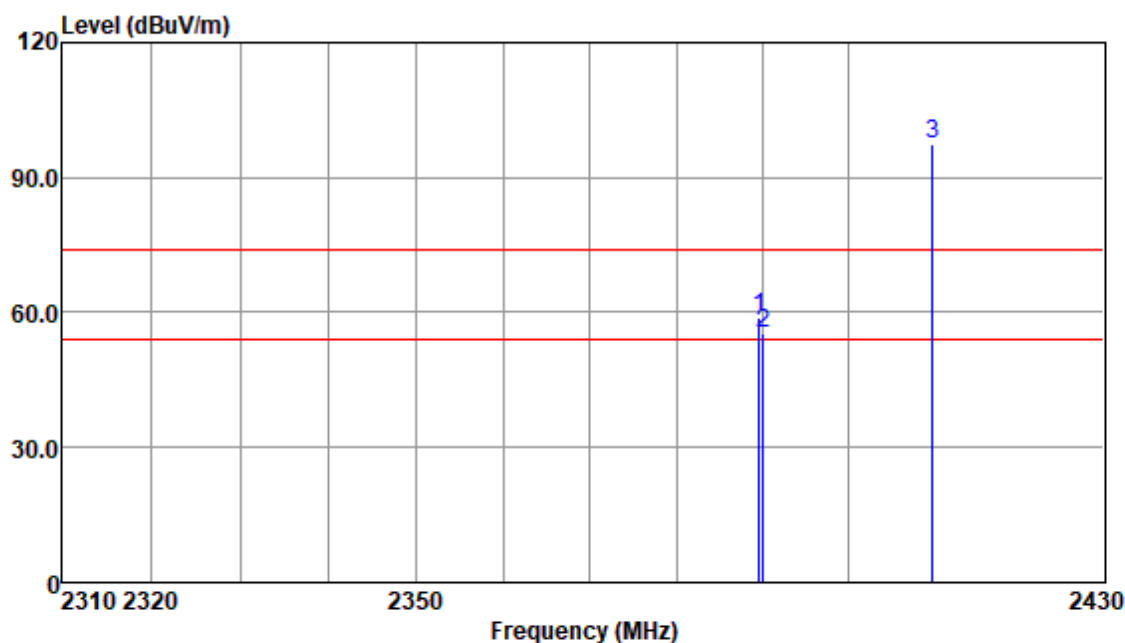


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2389.48	19.33	26.03	3.15	48.51	54.00	-5.49	Average
2390.00	19.68	26.03	3.15	48.86	54.00	-5.14	Average
2410.15	64.70	26.06	3.13	93.89	54.00	39.89	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

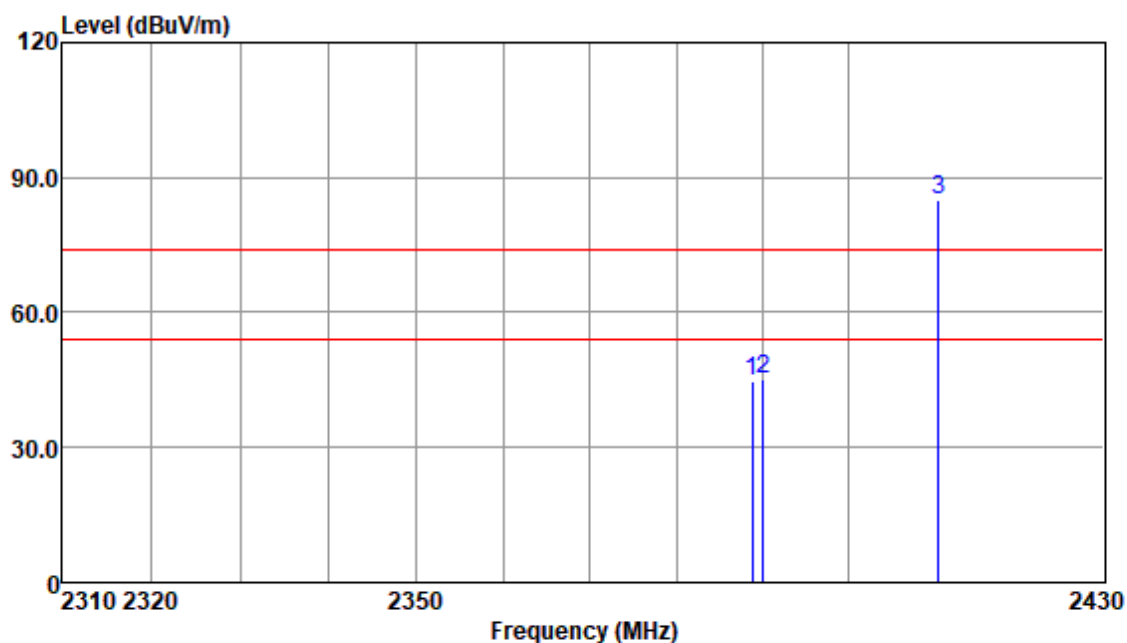


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2389.61	29.65	26.03	3.15	58.83	74.00	-15.17	Peak
2390.00	26.26	26.03	3.15	55.44	74.00	-18.56	Peak
2409.78	68.10	26.06	3.13	97.29	74.00	23.29	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

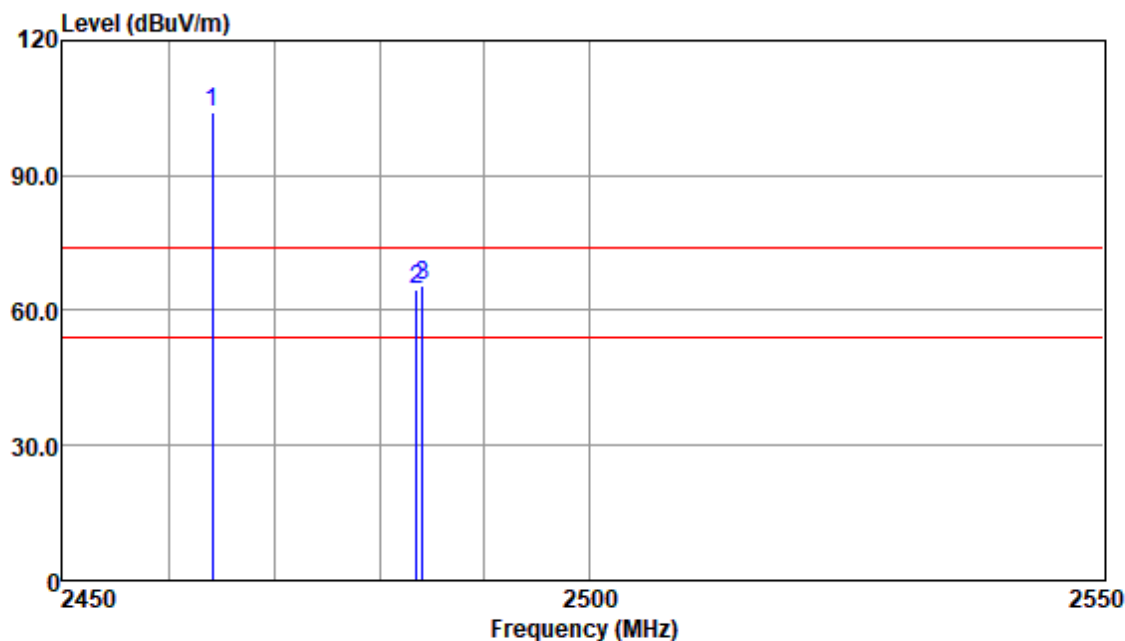


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2388.76	15.59	26.03	3.15	44.77	54.00	-9.23	Average
2390.00	15.79	26.03	3.15	44.97	54.00	-9.03	Average
2410.51	55.90	26.06	3.13	85.09	54.00	31.09	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

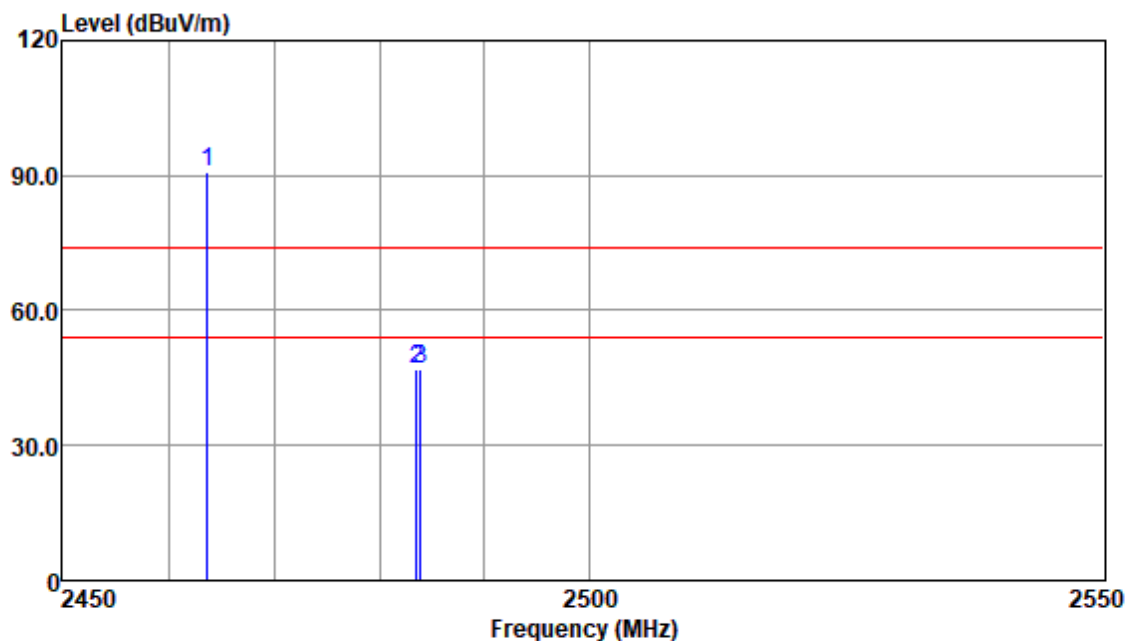


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2464.16	74.76	26.15	3.13	104.04	74.00	30.04	Peak
2483.50	35.37	26.18	3.14	64.69	74.00	-9.31	Peak
2484.15	35.99	26.18	3.14	65.31	74.00	-8.69	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

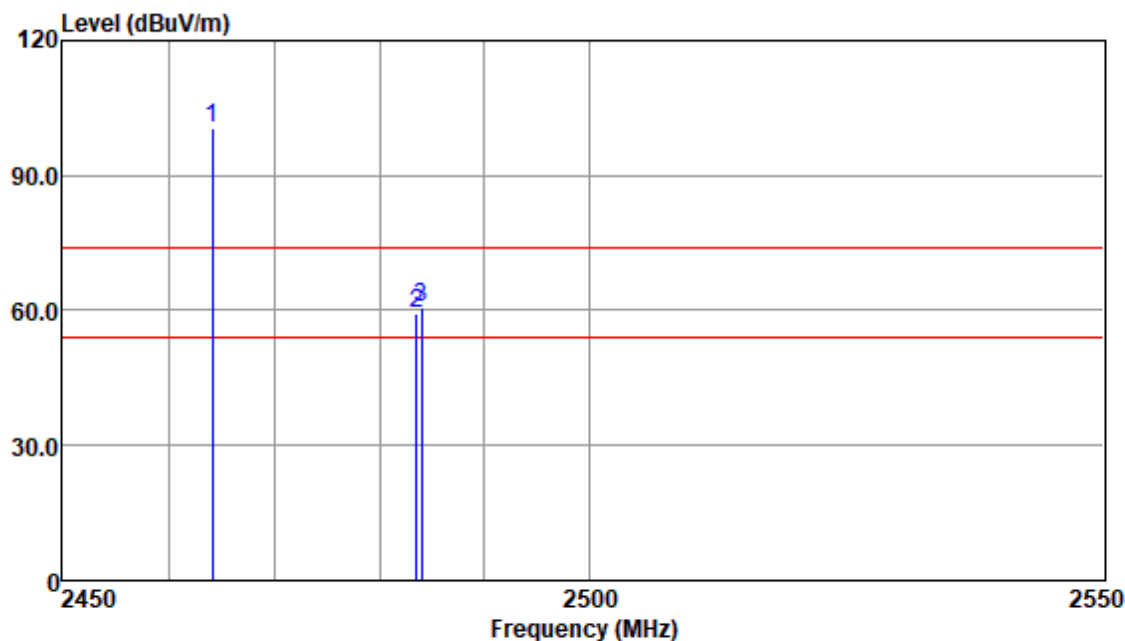


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
2463.66	61.49	26.15	3.13	90.77	54.00	36.77	Average
2483.50	17.67	26.18	3.14	46.99	54.00	-7.01	Average
2483.95	17.45	26.18	3.14	46.77	54.00	-7.23	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

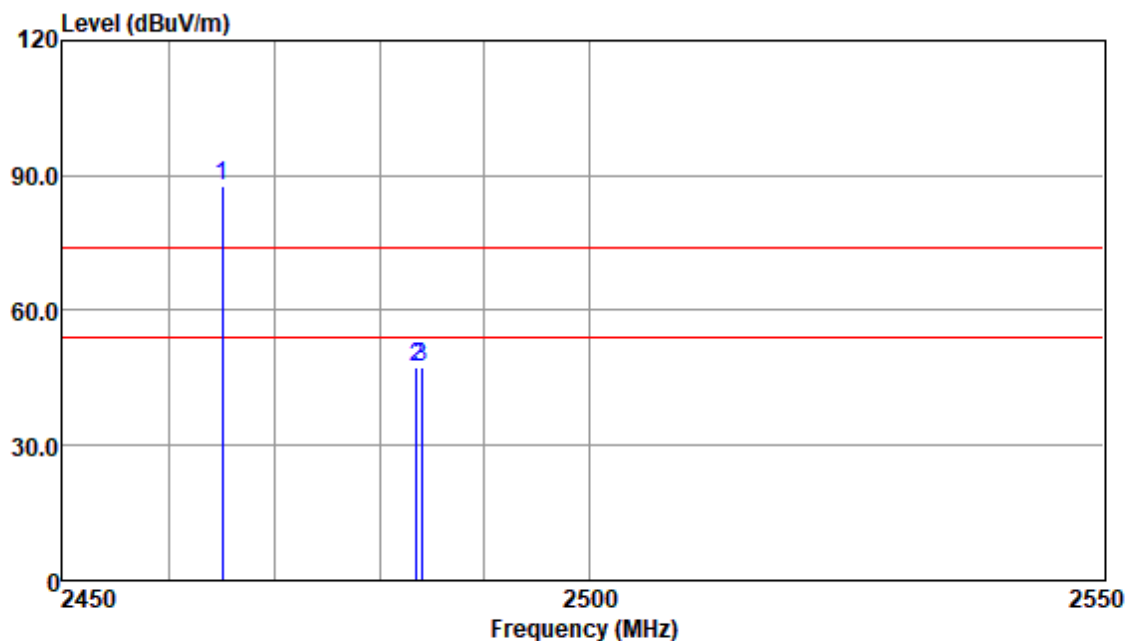


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2464.16	71.25	26.15	3.13	100.53	74.00	26.53	Peak
2483.50	30.09	26.18	3.14	59.41	74.00	-14.59	Peak
2484.05	31.24	26.18	3.14	60.56	74.00	-13.44	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

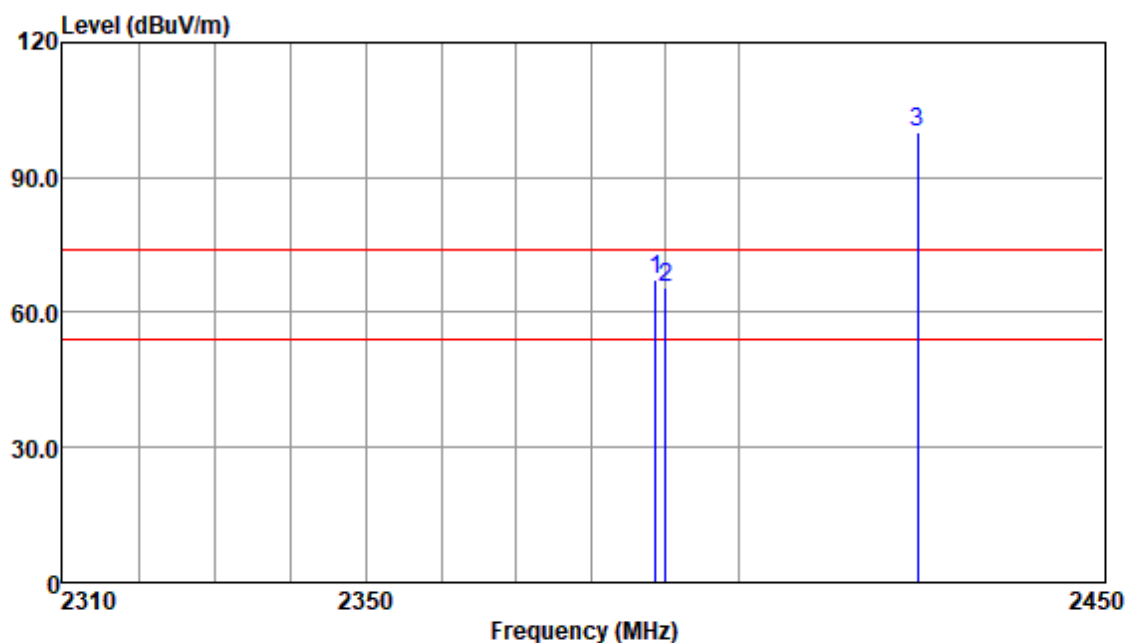


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2465.04	58.33	26.15	3.13	87.61	54.00	33.61	Average
2483.50	18.21	26.18	3.14	47.53	54.00	-6.47	Average
2484.05	18.10	26.18	3.14	47.42	54.00	-6.58	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

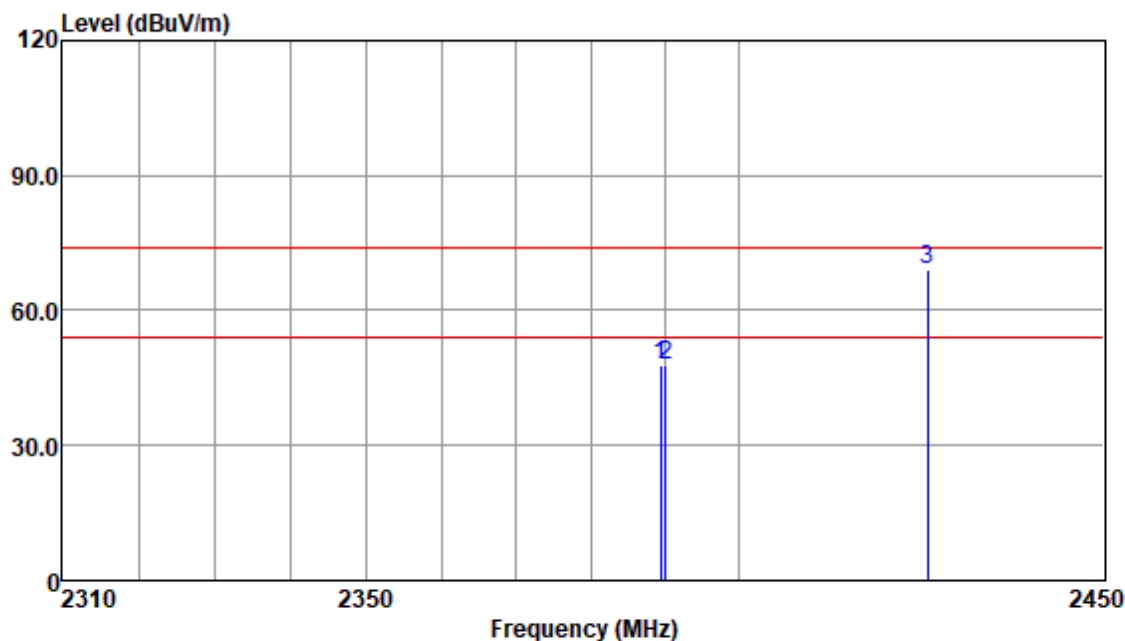


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2388.65	38.12	26.03	3.15	67.30	74.00	-6.70	Peak
2390.00	36.39	26.03	3.15	65.57	74.00	-8.43	Peak
2424.33	71.02	26.09	3.12	100.23	74.00	26.23	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

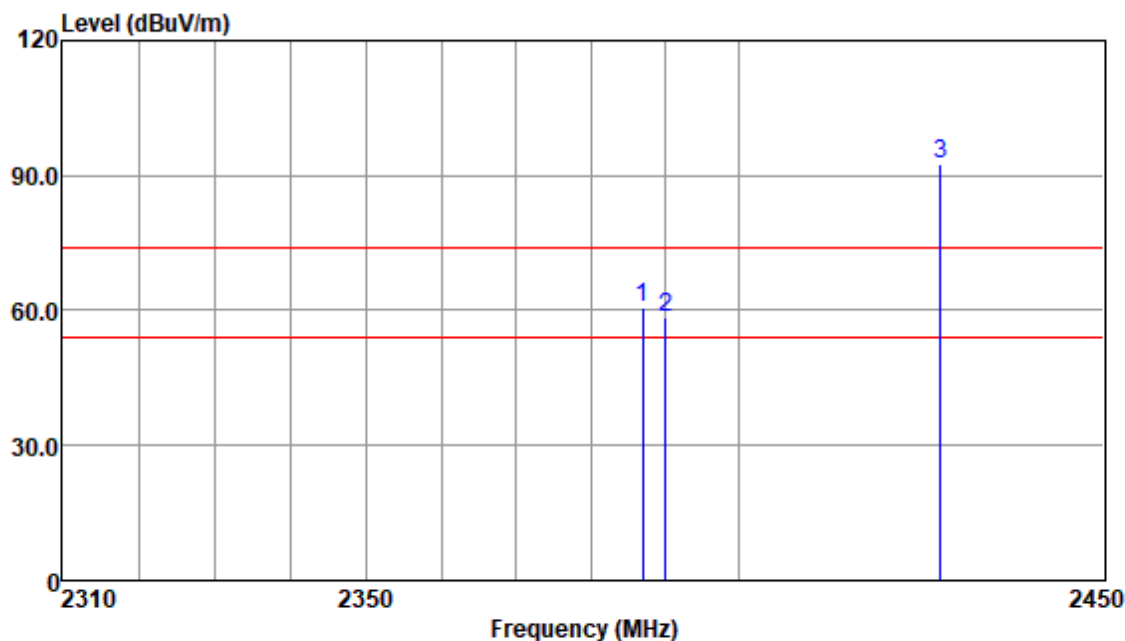


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2389.35	18.69	26.03	3.15	47.87	54.00	-6.13	Average
2390.00	18.72	26.03	3.15	47.90	54.00	-6.10	Average
2425.62	40.00	26.10	3.12	69.22	54.00	15.22	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



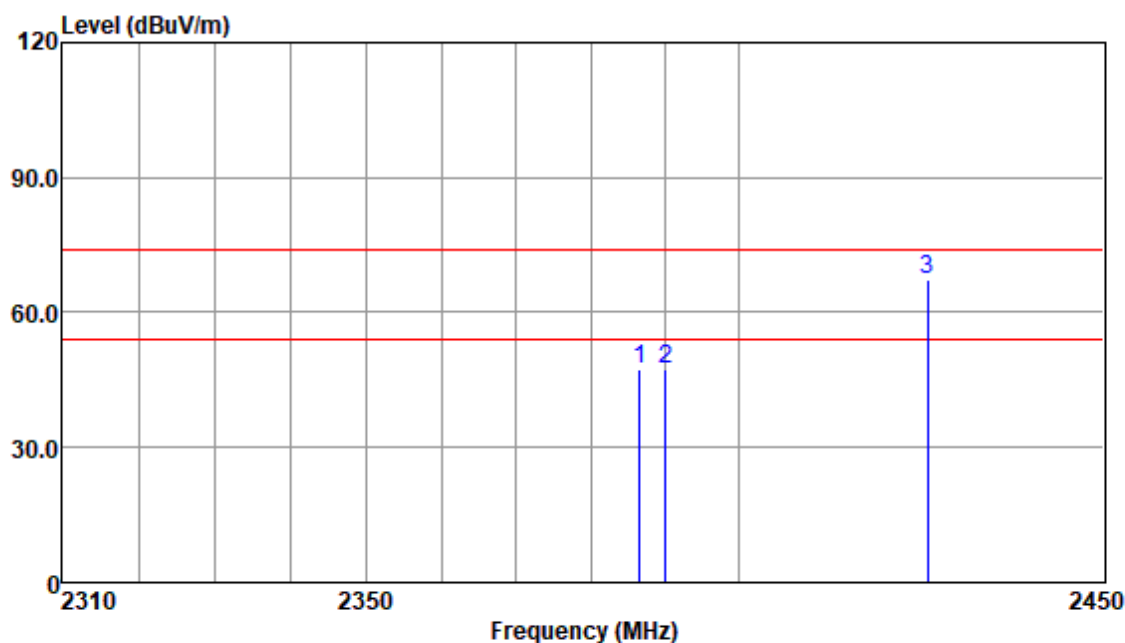
Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2386.96	31.44	26.03	3.16	60.63	74.00	-13.37	Peak
2390.00	29.07	26.03	3.15	58.25	74.00	-15.75	Peak
2427.47	63.27	26.10	3.12	92.49	74.00	18.49	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss



Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

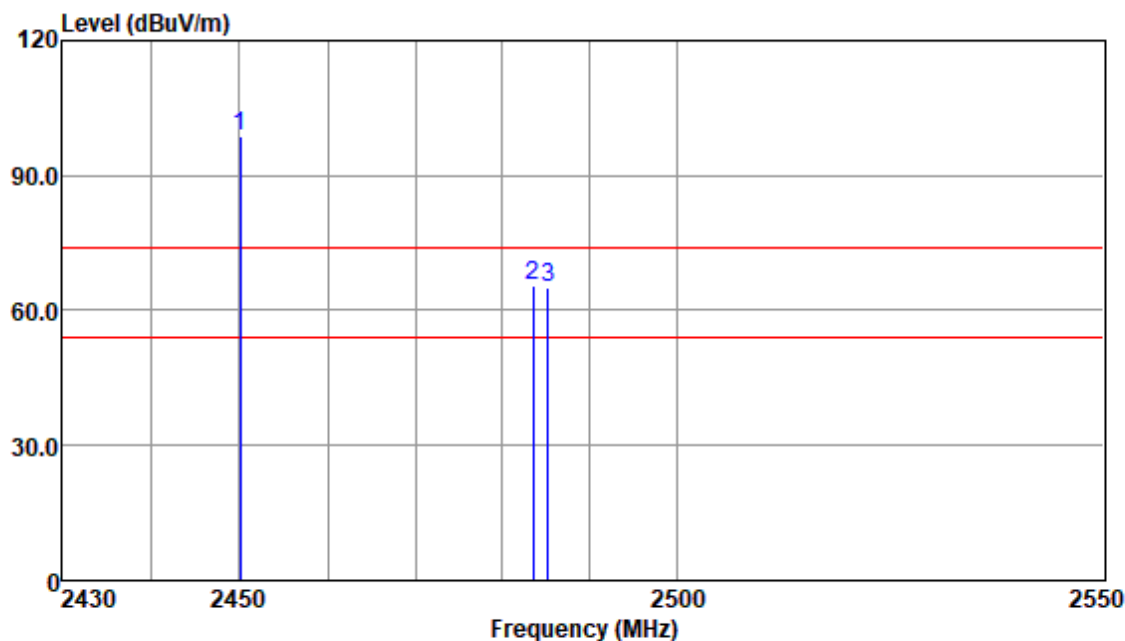


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2386.54	17.97	26.03	3.16	47.16	54.00	-6.84	Average
2390.00	18.27	26.03	3.15	47.45	54.00	-6.55	Average
2425.62	38.26	26.10	3.12	67.48	54.00	13.48	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

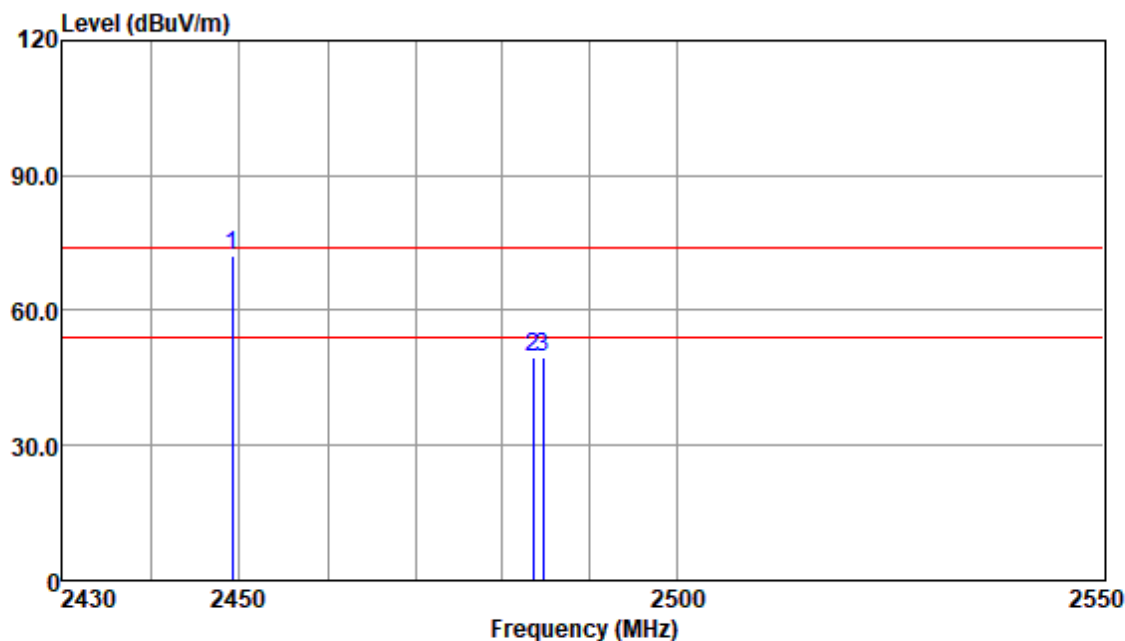


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2450.11	69.62	26.13	3.13	98.88	74.00	24.88	Peak
2483.50	36.31	26.18	3.14	65.63	74.00	-8.37	Peak
2485.20	35.71	26.18	3.14	65.03	74.00	-8.97	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

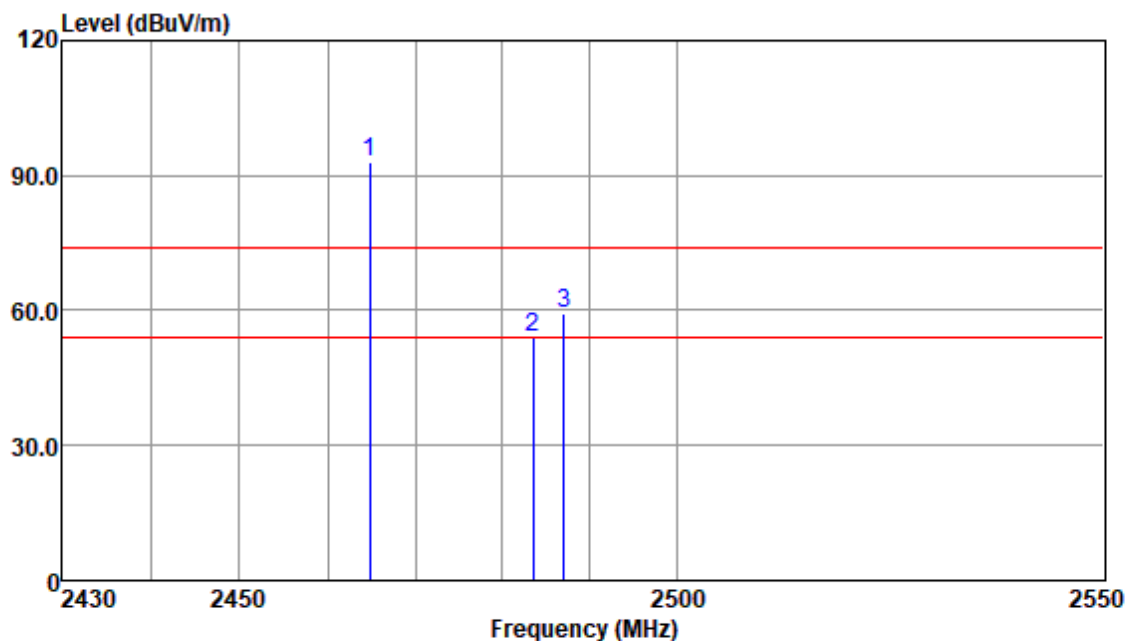


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2449.17	43.07	26.13	3.13	72.33	54.00	18.33	Average
2483.50	20.39	26.18	3.14	49.71	54.00	-4.29	Average
2484.60	20.37	26.18	3.14	49.69	54.00	-4.31	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

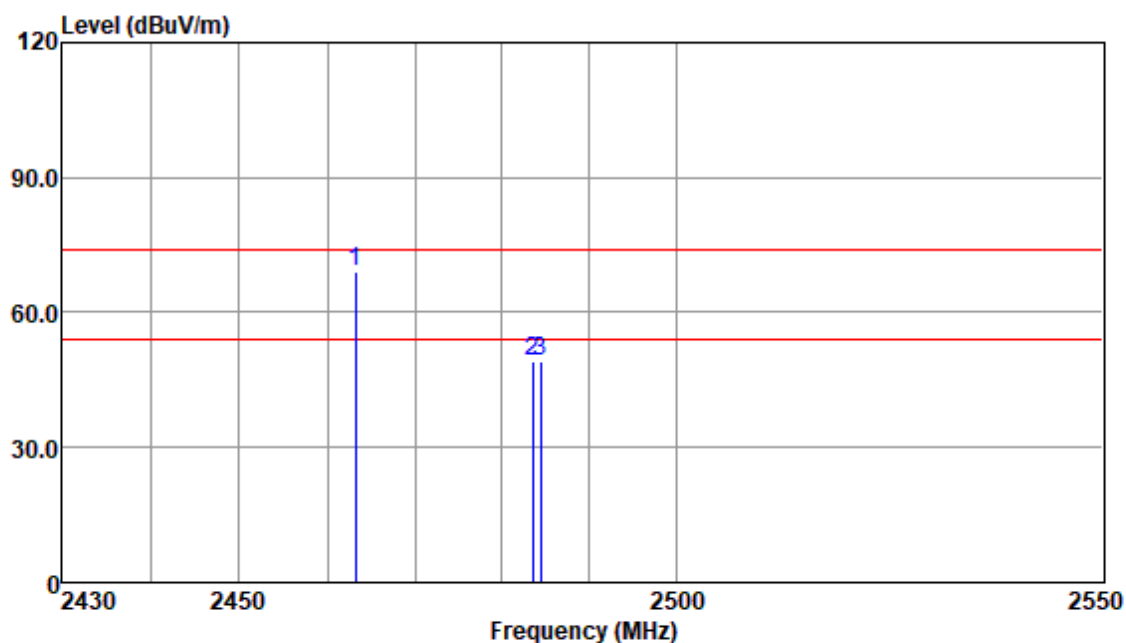


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2464.80	63.80	26.15	3.13	93.08	74.00	19.08	Peak
2483.50	24.85	26.18	3.14	54.17	74.00	-19.83	Peak
2487.00	30.12	26.18	3.14	59.44	74.00	-14.56	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dBuv/m	dBuv/m	dB	
2463.26	39.72	26.15	3.13	69.00	54.00	15.00	Average
2483.50	19.76	26.18	3.14	49.08	54.00	-4.92	Average
2484.36	19.78	26.18	3.14	49.10	54.00	-4.90	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss



7.2 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

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
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

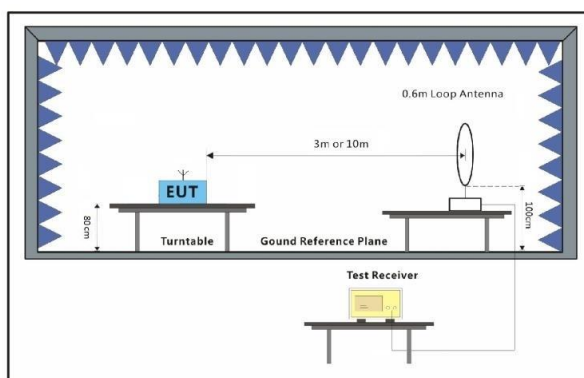
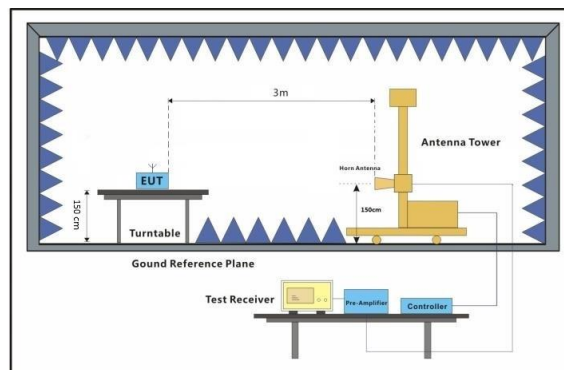
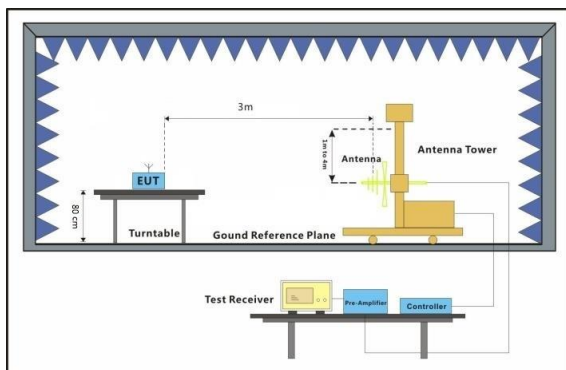
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

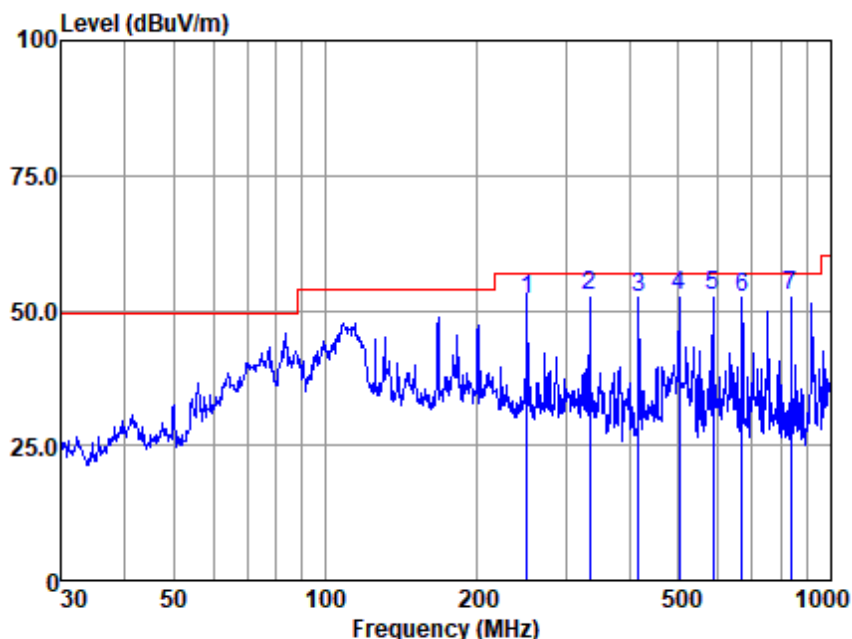
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown
- 5) This test item was investigated while operating in SISO mode of both two antennas, however, it was determined that SISO antenna 1 operation for b/g/n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

Below 1GHz:

Mode:a; Polarization:Horizontal

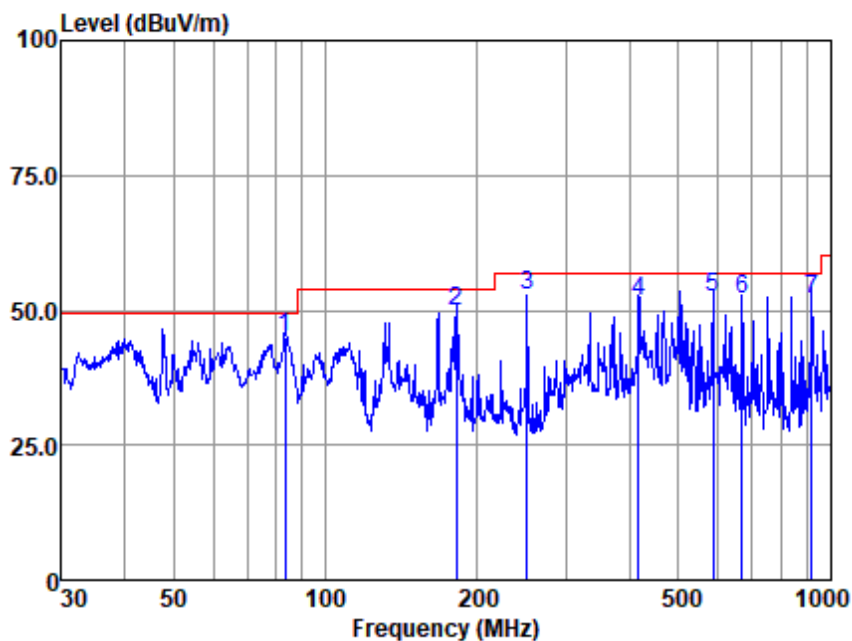


Antenna Polarity :HORIZONTAL
EUT/Project :18605CR
Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	251.180	80.11	11.74	2.22	42.10	51.97	56.90	-4.93	QP
2	333.687	78.27	14.11	2.50	41.99	52.89	56.90	-4.01	QP
3	417.641	75.59	16.06	2.73	41.86	52.52	56.90	-4.38	QP
4	501.179	73.88	17.72	2.90	41.69	52.81	56.90	-4.09	QP
5	584.790	72.13	19.22	3.16	41.67	52.84	56.90	-4.06	QP
6	668.142	70.10	20.49	3.39	41.73	52.25	56.90	-4.65	QP
7	836.244	68.17	22.52	3.77	41.83	52.63	56.90	-4.27	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL
EUT/Project :18605CR
Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	83.230	77.24	8.70	1.24	42.28	44.90	49.50	-4.60	QP
2	181.283	78.47	11.63	1.90	42.20	49.80	54.00	-4.20	QP
3	250.301	80.96	11.70	2.21	42.10	52.77	56.90	-4.13	QP
4	417.641	74.91	16.06	2.73	41.86	51.84	56.90	-5.06	QP
5	584.790	71.72	19.22	3.16	41.67	52.43	56.90	-4.47	QP
6	668.142	69.76	20.49	3.39	41.73	51.91	56.90	-4.99	QP
7	919.287	66.09	23.64	3.96	41.55	52.14	56.90	-4.76	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Above 1GHz:

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.57	6.40	49.97	54	-4.03	peak
7236	38.87	10.76	49.63	54	-4.37	peak
9648	34.94	14.37	49.31	54	-4.69	peak

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	39.60	6.40	46.00	54	-8.00	peak
7236	37.23	10.76	47.99	54	-6.01	peak
9648	33.26	14.37	47.63	54	-6.37	peak

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	42.67	6.92	49.59	54	-4.41	peak
7311	34.76	11.08	45.84	54	-8.16	peak
9748	34.92	14.36	49.28	54	-4.72	peak

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	41.00	6.92	47.92	54	-6.08	peak
7311	35.38	11.08	46.46	54	-7.54	peak
9748	33.25	14.36	47.61	54	-6.39	peak

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.89	7.31	47.20	54	-6.80	peak
7386	35.99	11.41	47.40	54	-6.60	peak
9848	33.19	14.38	47.57	54	-6.43	peak

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.78	7.31	47.09	54	-6.91	peak
7386	38.86	11.41	50.27	54	-3.73	peak
9848	32.22	14.38	46.60	54	-7.40	peak

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.71	6.40	49.11	54	-4.89	peak
7236	36.58	10.76	47.34	54	-6.66	peak
9648	35.46	14.37	49.83	54	-4.17	peak



Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.08	6.40	48.48	54	-5.52	peak
7236	39.37	10.76	50.13	54	-3.87	peak
9648	36.38	14.37	50.75	54	-3.25	peak

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.00	6.92	44.92	54	-9.08	peak
7311	38.72	11.08	49.80	54	-4.20	peak
9748	35.70	14.36	50.06	54	-3.94	peak

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.12	6.92	45.04	54	-8.96	peak
7311	34.86	11.08	45.94	54	-8.06	peak
9748	31.03	14.36	45.39	54	-8.61	peak

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.39	7.31	49.70	54	-4.30	peak
7386	36.86	11.41	48.27	54	-5.73	peak
9848	31.54	14.38	45.92	54	-8.08	peak

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	41.55	7.31	48.86	54	-5.14	peak
7386	35.14	11.41	46.55	54	-7.45	peak
9848	32.56	14.38	46.94	54	-7.06	peak

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.37	6.40	48.77	54	-5.23	peak
7236	39.75	10.76	50.51	54	-3.49	peak
9648	37.73	14.37	52.10	54	-1.90	peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.37	6.40	49.77	54	-4.23	peak
7236	38.84	10.76	49.60	54	-4.40	peak
9648	30.74	14.37	45.11	54	-8.89	peak



Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4874	38.50	6.92	45.42	54	-8.58	peak
7311	36.19	11.08	47.27	54	-6.73	peak
9748	32.57	14.36	46.93	54	-7.07	peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4874	40.06	6.92	46.98	54	-7.02	peak
7311	34.42	11.08	45.50	54	-8.50	peak
9748	31.50	14.36	45.86	54	-8.14	peak

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4924	40.52	7.31	47.83	54	-6.17	peak
7386	36.29	11.41	47.70	54	-6.30	peak
9848	33.69	14.38	48.07	54	-5.93	peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4924	43.57	7.31	50.88	54	-3.12	peak
7386	36.92	11.41	48.33	54	-5.67	peak
9848	33.94	14.38	48.32	54	-5.68	peak

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4844	41.96	6.60	48.56	54	-5.44	peak
7266	37.38	10.89	48.27	54	-5.73	peak
9688	35.80	14.35	50.15	54	-3.85	peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4844	43.13	6.60	49.73	54	-4.27	peak
7266	36.88	10.89	47.77	54	-6.23	peak
9688	31.25	14.35	45.60	54	-8.40	peak

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4874	40.79	6.92	47.71	54	-6.29	peak
7311	38.94	11.08	50.02	54	-3.98	peak
9748	31.71	14.36	46.07	54	-7.93	peak



Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4874	40.90	6.92	47.82	54	-6.18	peak
7311	37.69	11.08	48.77	54	-5.23	peak
9748	35.79	14.36	50.15	54	-3.85	peak

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4904	43.01	7.22	50.23	54	-3.77	peak
7356	35.83	11.28	47.11	54	-6.89	peak
9808	36.89	14.37	51.26	54	-2.74	peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
4904	42.74	7.22	49.96	54	-4.04	peak
7356	35.02	11.28	46.30	54	-7.70	peak
9808	31.35	14.37	45.72	54	-8.28	peak



8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < Photos >.

- End of the Report -