

# TEST REPORT

**Applicant:** FLYSKY RC MODEL TECHNOLOGY CO., LTD

**Address of Applicant:** West building3, Huangjianyuan Ind, Park QIAOLI North Gate  
Changping Town, Dongguan, China

**Manufacturer:** ShenZhen FLYSKY Technology Co.,Ltd

**Address of Manufacturer:** 16F, Huafeng Building, No. 6006 Shennan Road, Futian  
District, Shenzhen, Guangdong, China

**Factory:** Dongguan Flysky RC Model technology Co.,Ltd

**Address of Factory:** West building 3, HuangjinyuanInd Park, Qiaoli North Gate,  
Changping Town, Dongguan, China

**Equipment Under Test (EUT)**

Product Name: Digital proportional radio control system

Model No.: FS-ST8B

Trade Mark: FLYSKY

**FCC ID:** N4ZST800

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Date of sample receipt:** December 09, 2022

**Date of Test:** December 09, 2022-March 24, 2023

**Date of report issued:** March 24, 2023

**Test Result :** PASS \*

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

Authorized Signature:



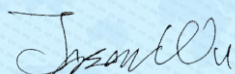
Robinson Luo  
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 2 Version

Report No.	Version No.	Date	Description
GTS202111000246F01	00	December 24, 2021	Original
GTS202212000072F01	01	March 24, 2023	Class II Permissive Change(C2PC)

**Prepared By:**

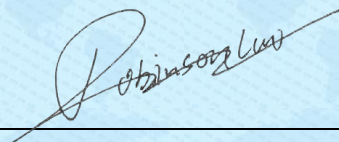


**Date:**

March 24, 2023

**Project Engineer**

**Check By:**



**Date:**

March 24, 2023

**Reviewer**

## 3 Contents

Page

1	COVER PAGE .....	1
2	VERSION .....	2
3	CONTENTS .....	3
4	TEST SUMMARY .....	4
4.1	MEASUREMENT UNCERTAINTY .....	4
5	GENERAL INFORMATION .....	5
5.1	GENERAL DESCRIPTION OF EUT .....	5
5.2	TEST MODE .....	7
5.3	TEST FACILITY.....	7
5.4	TEST LOCATION .....	7
5.5	DESCRIPTION OF SUPPORT UNITS .....	7
5.6	DEVIATION FROM STANDARDS.....	7
5.7	ABNORMALITIES FROM STANDARD CONDITIONS.....	7
5.8	ADDITIONAL INSTRUCTIONS.....	7
6	TEST INSTRUMENTS LIST .....	8
7	TEST RESULTS AND MEASUREMENT DATA.....	10
7.1	ANTENNA REQUIREMENT .....	10
7.2	CONDUCTED EMISSIONS .....	11
7.3	CONDUCTED PEAK OUTPUT POWER .....	16
7.4	20dB EMISSION BANDWIDTH .....	17
7.5	CARRIER FREQUENCIES SEPARATION.....	18
7.6	HOPPING CHANNEL NUMBER .....	19
7.7	DWELL TIME.....	20
7.8	SPURIOUS EMISSION IN NON-RESTRICTED & RESTRICTED BANDS .....	21
7.8.1	Conducted Emission Method.....	21
7.8.2	Radiated Emission Method.....	22
8	TEST SETUP PHOTO .....	57
9	EUT CONSTRUCTIONAL DETAILS .....	57



## 4 Test Summary

Test Item	Section	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)(iii)	Pass
Dwell Time	15.247 (a)(1)(iii)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

*Pass: The EUT complies with the essential requirements in the standard.*

*Remark : Test according to ANSI C63.10:2013.*

*This report is a Class II Permissive Change report, so it only reflects the test data of antenna 2 after the change. Please refer to the original report(GTS202111000246F01) for the test data of antenna 1.*

### 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz-30MHz	3.1dB	(1)
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 5 General Information

### 5.1 General Description of EUT

Product Name:	Digital proportional radio control system
Model No.:	FS-ST8B
Serial No.:	RD100426
Hardware version:	FS-ST8-V1.5
Software version:	FS-ST8 V1.0.27
Test sample(s) ID:	GTS202212000072-1
Sample(s) Status	Engineer sample
Operation Frequency:	2406MHz~2472MHz
Channel numbers:	133
Modulation method:	FHSS
Modulation technology:	GMSK
Antenna Type:	ANT 1: Integral Antenna ANT 2: Glue Stick Antenna
Antenna gain:	ANT 1: 2dBi ANT 2: 2.47dBi
Power supply:	DC 6V(4*1.5V Size“AA” Battery) Or USB DC5V input

Remark: All two antennas transmitters were work in asynchronous status.

The system works in the frequency range of 2406MHz to 2472MHz. This band has been divided to 133 independent channels. Each radio system uses 20 different channels; the minimum channel separation is  $\geq 2$ MHz. By using various switch-on times, hopping scheme and channel frequencies, the system can guarantee a jamming free radio transmission. Pre-testing all radio systems, this radio system recorded in the report is the worst mode. The channel list is below.

The test frequencies are below:

Channel	Frequency
The lowest channel	2406MHz
The middle channel	2440MHz
The Highest channel	2472MHz

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2406	36	2423.5	71	2441	106	2458.5
2	2406.5	37	2424	72	2441.5	107	2459
3	2407	38	2424.5	73	2442	108	2459.5
4	2407.5	39	2425	74	2442.5	109	2460
5	2408	40	2425.5	75	2443	110	2460.5
6	2408.5	41	2426	76	2443.5	111	2461
7	2409	42	2426.5	77	2444	112	2461.5
8	2409.5	43	2427	78	2444.5	113	2462
9	2410	44	2427.5	79	2445	114	2462.5
10	2410.5	45	2428	80	2445.5	115	2463
11	2411	46	2428.5	81	2446	116	2463.5
12	2411.5	47	2429	82	2446.5	117	2464
13	2412	48	2429.5	83	2447	118	2464.5
14	2412.5	49	2430	84	2447.5	119	2465
15	2413	50	2430.5	85	2448	120	2465.5
16	2413.5	51	2431	86	2448.5	121	2466
17	2414	52	2431.5	87	2449	122	2466.5
18	2414.5	53	2432	88	2449.5	123	2467
19	2415	54	2432.5	89	2450	124	2467.5
20	2415.5	55	2433	90	2450.5	125	2468
21	2416	56	2433.5	91	2451	126	2468.5
22	2416.5	57	2434	92	2451.5	127	2469
23	2417	58	2434.5	93	2452	128	2469.5
24	2417.5	59	2435	94	2452.5	129	2470
25	2418	60	2435.5	95	2453	130	2470.5
26	2418.5	61	2436	96	2453.5	131	2471
27	2419	62	2436.5	97	2454	132	2471.5
28	2419.5	63	2437	98	2454.5	133	2472
29	2420	64	2437.5	99	2455		
30	2420.5	65	2438	100	2455.5		
31	2421	66	2438.5	101	2456		
32	2421.5	67	2439	102	2456.5		
33	2422	68	2439.5	103	2457		
34	2422.5	69	2440	104	2457.5		
35	2423	70	2440.5	105	2458		



## 5.2 Test mode

Transmitting mode	Keep the EUT in transmitting mode.
Remark: During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data. New battery is used during all test.	

## 5.3 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC —Registration No.: 381383</b> Designation Number: CN5029 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.</li> <li>● <b>IC —Registration No.: 9079A</b> CAB identifier: CN0091 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.</li> <li>● <b>NVLAP (LAB CODE:600179-0)</b> Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).</li> </ul>
--

## 5.4 Test Location

All other tests were performed at:
<p>Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960</p>

## 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number
APPLE	USB Charger	A1399	N/A

## 5.6 Deviation from Standards

None.
-------

## 5.7 Abnormalities from Standard Conditions

None.
-------

## 5.8 Additional Instructions

Software (Used for test) from client
Built-in by manufacturer, power set default.

## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 02, 2020	July 01, 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 22, 2022	April 21, 2023
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 20, 2023	March 19, 2025
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June 12, 2022	June 11, 2023
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 23, 2022	June 22, 2023
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	April 22, 2022	April 21, 2023
9	Coaxial Cable	GTS	N/A	GTS211	April 22, 2022	April 21, 2023
10	Coaxial cable	GTS	N/A	GTS210	April 22, 2022	April 21, 2023
11	Coaxial Cable	GTS	N/A	GTS212	April 22, 2022	April 21, 2023
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April 22, 2022	April 21, 2023
13	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 23, 2022	June 22, 2023
14	Band filter	Amindeon	82346	GTS219	June 23, 2022	June 22, 2023
15	Power Meter	Anritsu	ML2495A	GTS540	June 23, 2022	June 22, 2023
16	Power Sensor	Anritsu	MA2411B	GTS541	June 23, 2022	June 22, 2023
17	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 22, 2022	April 21, 2023
18	Splitter	Agilent	11636B	GTS237	June 23, 2022	June 22, 2023
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023
20	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 22, 2022	April 21, 2023
21	Breitband hornantenna	SCHWARZBECK	BBHA 9170	GTS579	Oct. 16, 2022	Oct. 15, 2023
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 16, 2022	Oct. 15, 2023
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 16, 2022	Oct. 15, 2023
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June 23, 2022	June 22, 2023
25	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 22, 2022	April 21, 2023



Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May 14, 2022	May 13, 2025
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 24, 2022	April 23, 2023
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 23, 2022	June 22, 2023
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	April 22, 2022	April 21, 2023
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	JINCHUANG	GSP-8A	GTS639	April 28, 2022	April 27, 2023
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	April 15, 2022	April 14, 2023
9	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 22, 2022	April 21, 2023
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 22, 2022	April 21, 2023

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 22, 2022	April 21, 2023
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 22, 2022	April 21, 2023
3	Spectrum Analyzer	Agilent	E4440A	GTS536	April 22, 2022	April 21, 2023
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 22, 2022	April 21, 2023
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 22, 2022	April 21, 2023
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 22, 2022	April 21, 2023
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 22, 2022	April 21, 2023
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 22, 2022	April 21, 2023

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 25, 2022	April 24, 2023
2	Barometer	KUMAO	SF132	GTS647	July 26, 2022	July 25, 2023

## 7 Test results and Measurement Data

### 7.1 Antenna requirement

<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<p><b>15.203 requirement:</b></p> <p>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.</p> <p><b>15.247(c) (1)(i) requirement:</b></p> <p>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
<b>EUT Antenna:</b>	
The antenna 1 is integral antenna; The antenna 2 is glue stick antenna, reference to the appendix II for details.	

## 7.2 Conducted Emissions

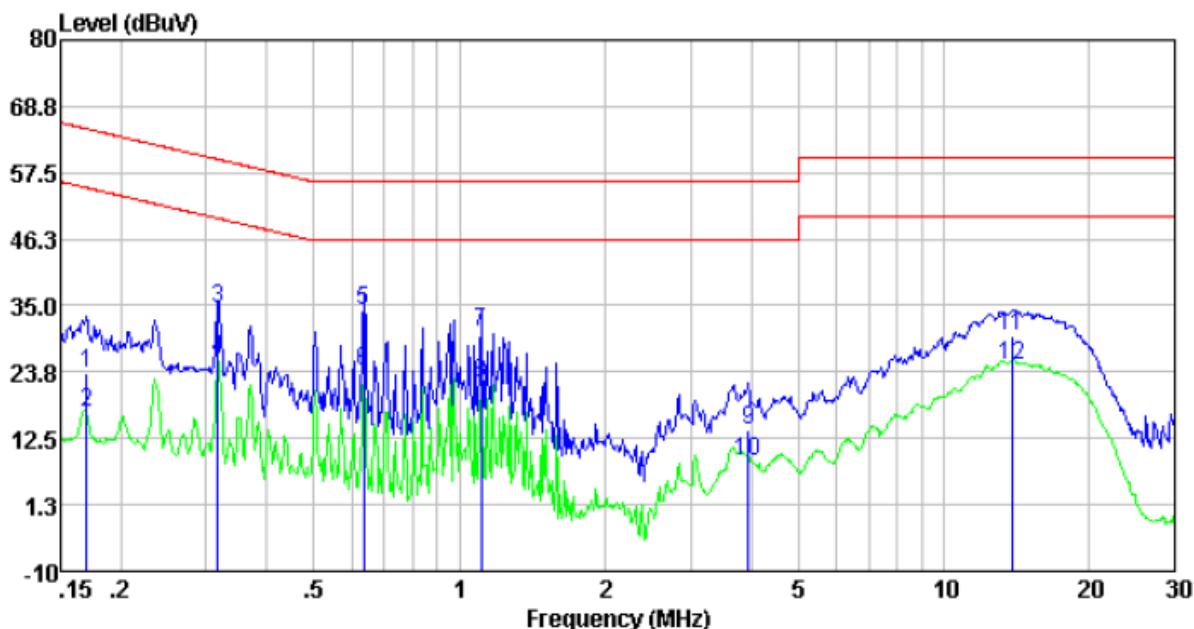
Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:	Frequency range (MHz)	Limit (dBuV)				
			Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
* Decreases with the logarithm of the frequency.						
Test setup:	<p>Remark                      E.U.T: Equipment Under Test                      LISN: Line Impedance Stabilization Network                      Test table height=0.8m</p>					
Test procedure:	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2009 on conducted measurement.</li> </ol>					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V					
Test results:	Pass					



## Measurement data

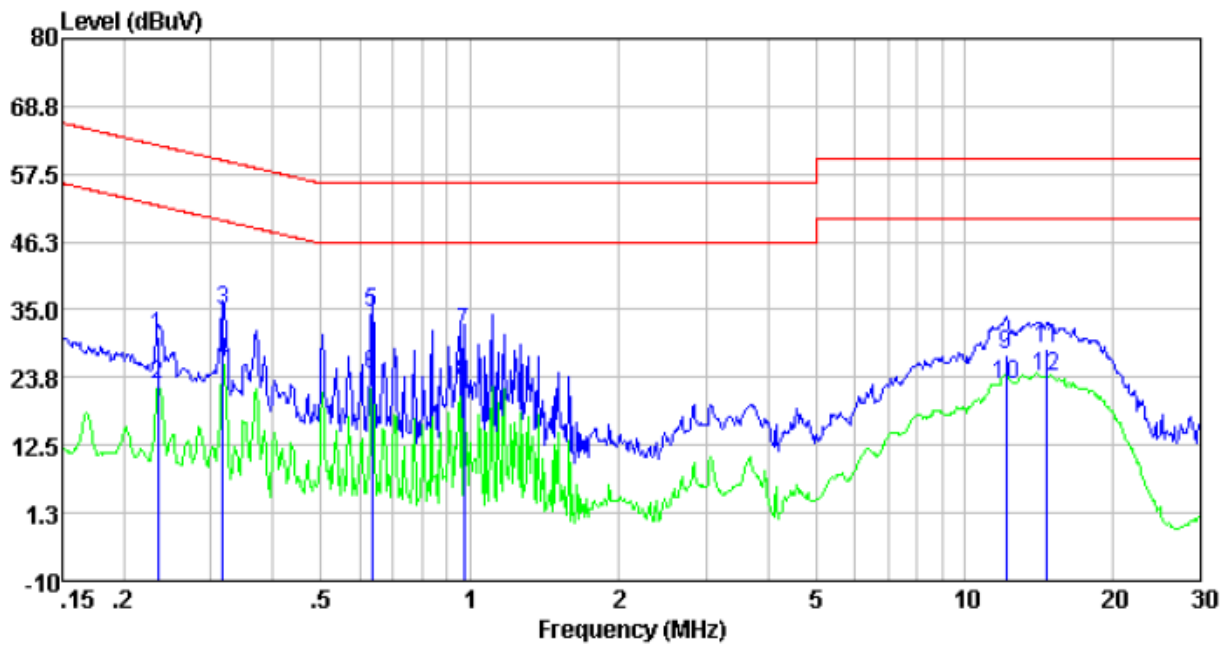
ANT 1:

Line:



Freq	Reading level	LISN/ISN factor	Cable loss	Level	Limit level	Over limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.17	13.12	10.40	0.01	23.53	64.99	-41.46	QP
0.17	6.54	10.40	0.01	16.95	54.99	-38.04	Average
0.32	24.08	10.39	0.01	34.48	59.80	-25.32	QP
0.32	15.50	10.39	0.01	25.90	49.80	-23.90	Average
0.63	23.87	10.28	0.02	34.17	56.00	-21.83	QP
0.63	13.47	10.28	0.02	23.77	46.00	-22.23	Average
1.11	20.29	10.20	0.03	30.52	56.00	-25.48	QP
1.11	11.73	10.20	0.03	21.96	46.00	-24.04	Average
3.94	3.66	10.20	0.06	13.92	56.00	-42.08	QP
3.94	-1.55	10.20	0.06	8.71	46.00	-37.29	Average
13.84	19.43	10.20	0.15	29.78	60.00	-30.22	QP
13.84	14.60	10.20	0.15	24.95	50.00	-25.05	Average

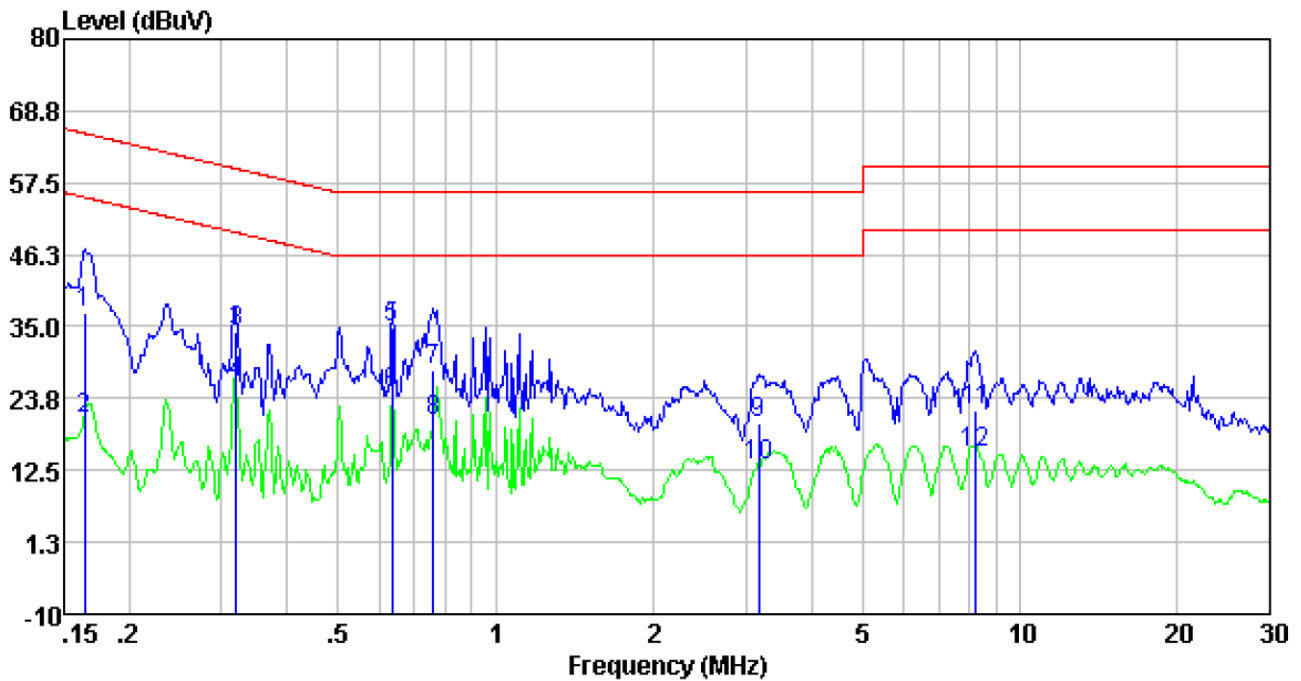
Neutral:



Freq	Reading level	LISN/ISN factor	Cable loss	Level	Limit level	Over limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.23	20.06	10.40	0.01	30.47	62.30	-31.83	QP
0.23	12.08	10.40	0.01	22.49	52.30	-29.81	Average
0.32	24.36	10.39	0.01	34.76	59.80	-25.04	QP
0.32	15.89	10.39	0.01	26.29	49.80	-23.51	Average
0.63	24.20	10.28	0.02	34.50	56.00	-21.50	QP
0.63	13.88	10.28	0.02	24.18	46.00	-21.82	Average
0.97	21.11	10.20	0.03	31.34	56.00	-24.66	QP
0.97	12.68	10.20	0.03	22.91	46.00	-23.09	Average
12.12	17.10	10.20	0.13	27.43	60.00	-32.57	QP
12.12	12.34	10.20	0.13	22.67	50.00	-27.33	Average
14.67	18.17	10.20	0.16	28.53	60.00	-31.47	QP
14.67	13.45	10.20	0.16	23.81	50.00	-26.19	Average

ANT 2:

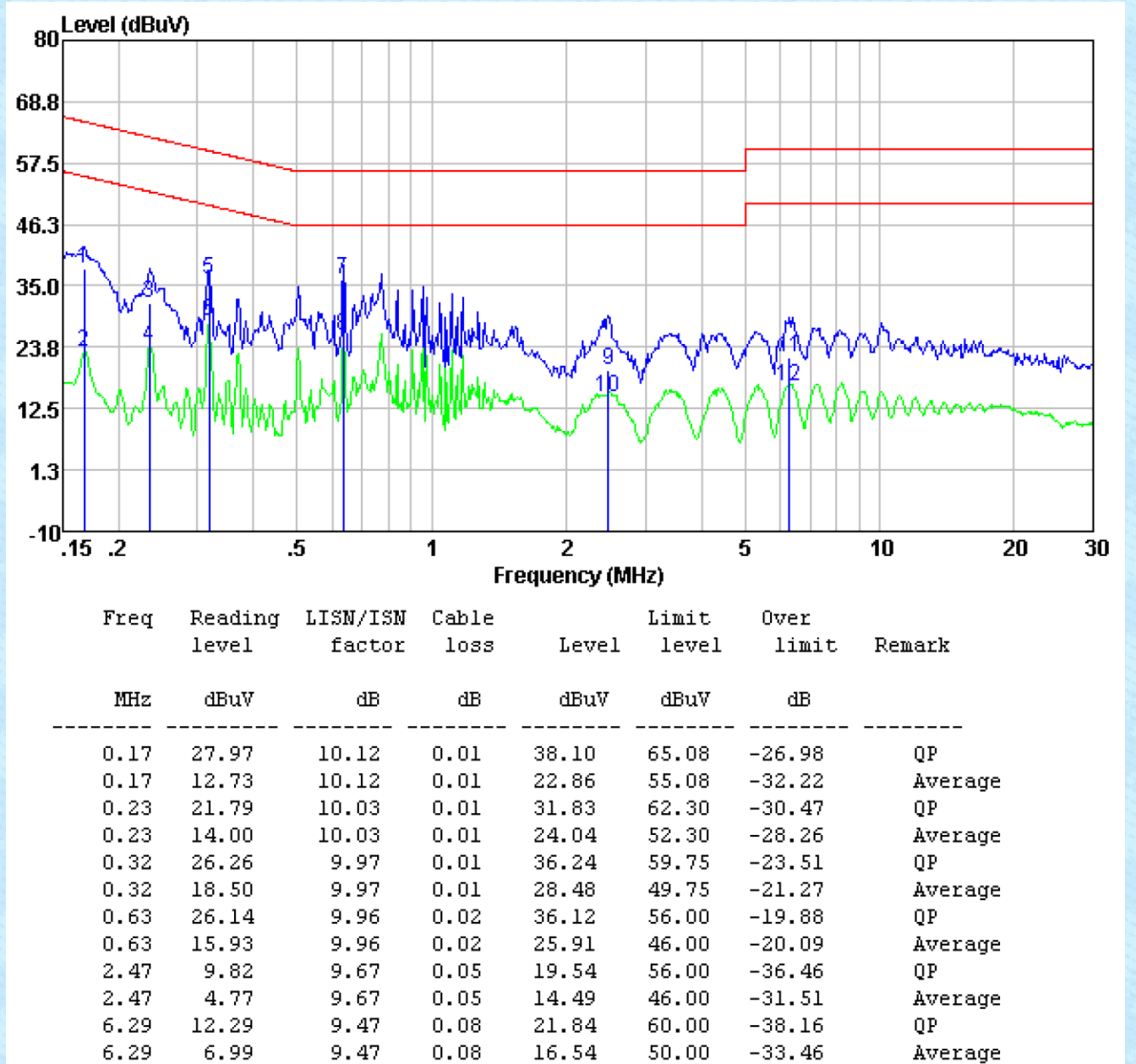
Line:



Freq	Reading level	LISN/ISN factor	Cable loss	Limit Level	Limit level	Over limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.16	27.00	10.10	0.01	37.11	65.25	-28.14	QP
0.16	10.48	10.10	0.01	20.59	55.25	-34.66	Average
0.32	24.07	9.98	0.01	34.06	59.71	-25.65	QP
0.32	16.33	9.98	0.01	26.32	49.71	-23.39	Average
0.63	24.92	9.96	0.02	34.90	56.00	-21.10	QP
0.63	14.70	9.96	0.02	24.68	46.00	-21.32	Average
0.76	18.21	9.96	0.02	28.19	56.00	-27.81	QP
0.76	10.13	9.96	0.02	20.11	46.00	-25.89	Average
3.17	10.12	9.74	0.05	19.91	56.00	-36.09	QP
3.17	3.60	9.74	0.05	13.39	46.00	-32.61	Average
8.24	12.27	9.65	0.10	22.02	60.00	-37.98	QP
8.24	5.57	9.65	0.10	15.32	50.00	-34.68	Average



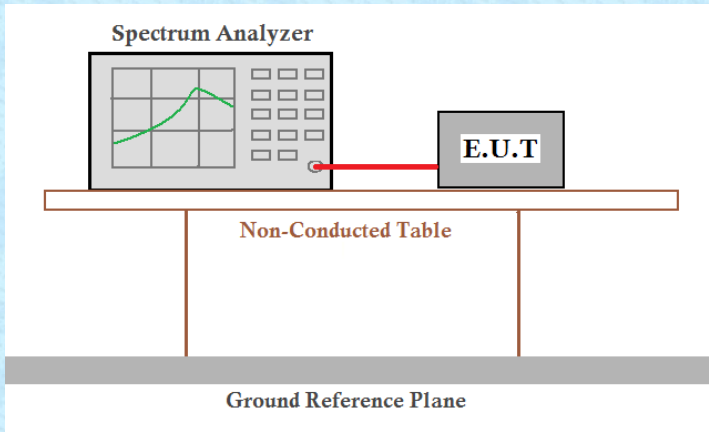
Neutral:



Notes:

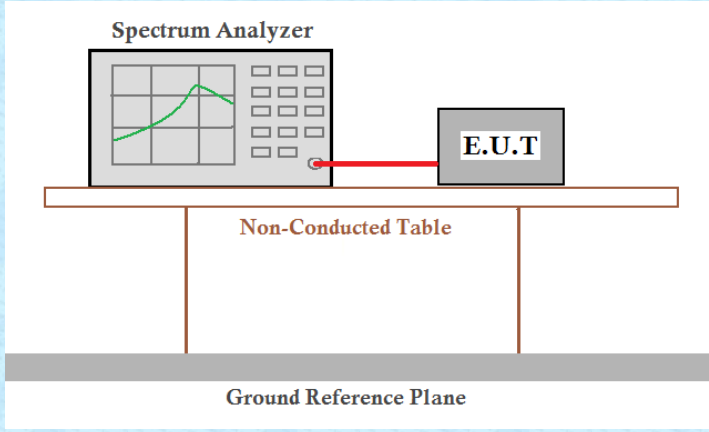
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

## 7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247(a)(1)
Test Method:	ANSI C63.10:2013
Limit:	20.97dBm
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

**Measurement Data:** The detailed test data see Appendix for 2.4G.

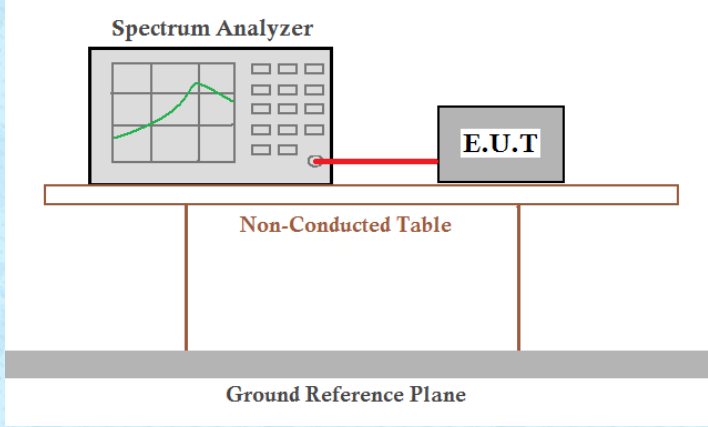
## 7.4 20dB Emission Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Limit:	N/A
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

**Measurement Data:** The detailed test data see Appendix for 2.4G.

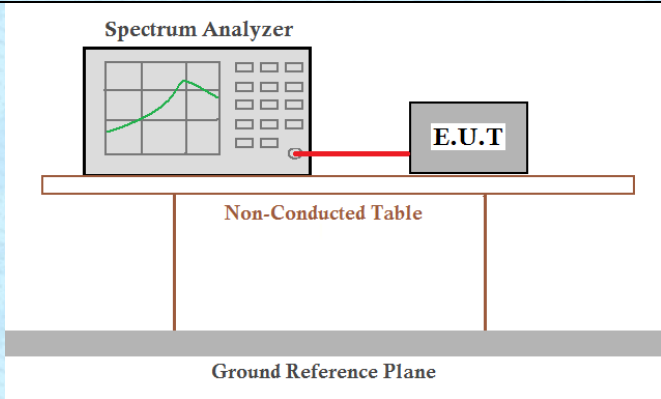


## 7.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

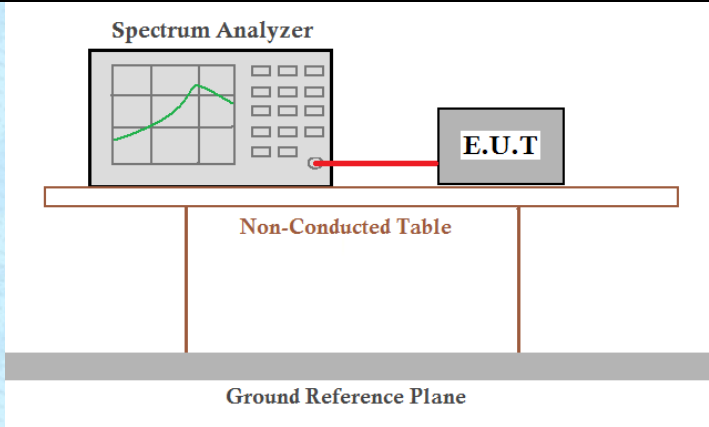
**Measurement Data:** The detailed test data see Appendix for 2.4G.

## 7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

**Measurement Data:** The detailed test data see Appendix for 2.4G.

## 7.7 Dwell Time

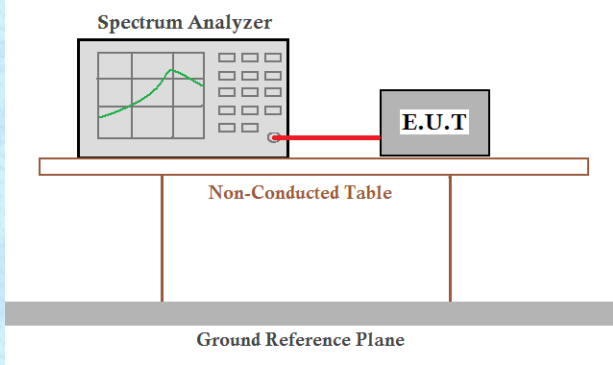
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

**Measurement Data:** The detailed test data see Appendix for 2.4G.



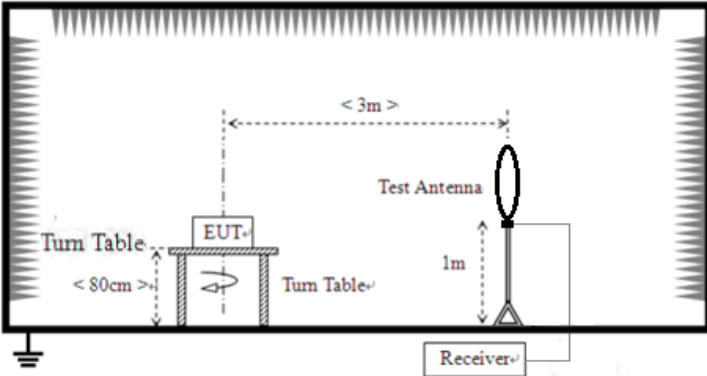
## 7.8 Spurious Emission in Non-restricted & restricted Bands

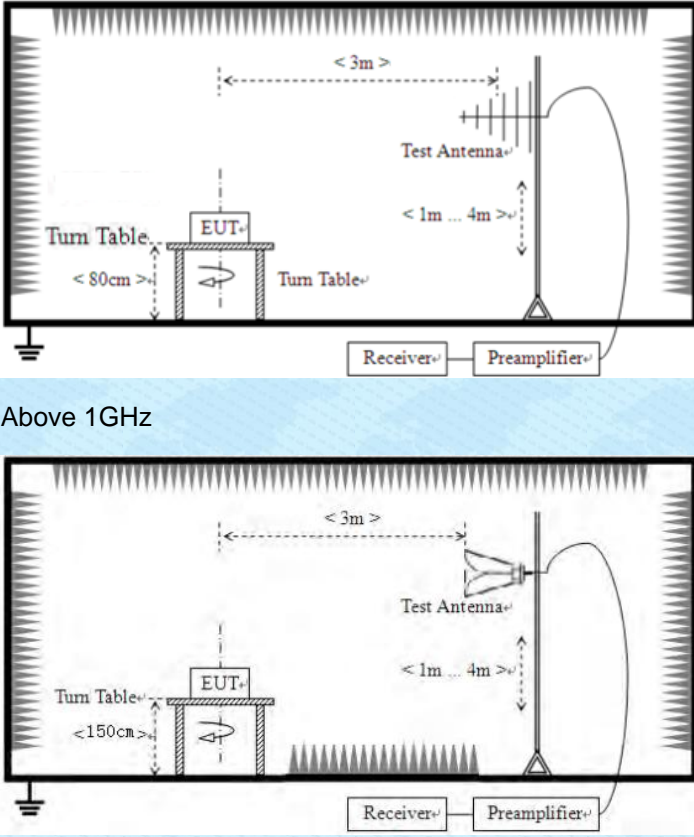
### 7.8.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

**Measurement Data:** The detailed test data see Appendix for 2.4G.

## 7.8.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit: (Spurious Emissions)	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
5000		Peak			
Test setup:	Below 30MHz				
					
Below 1GHz					

	 <p>Above 1GHz</p>						
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. 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.</li> <li>4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. 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.</li> </ol>						
<p>Test Instruments:</p>	<p>Refer to section 5.8 for details</p>						
<p>Test mode:</p>	<p>Refer to section 5.2 for details</p>						
<p>Temp. / Hum.</p>	<table border="1"> <tr> <td>Temp.:</td> <td>25 °C</td> <td>Humid.:</td> <td>52%</td> <td>Press.:</td> <td>1 012mbar</td> </tr> </table>	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar		



Test results:	Pass
Test voltage:	AC120V

*Remark:*

1. *Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

**Measurement data:**

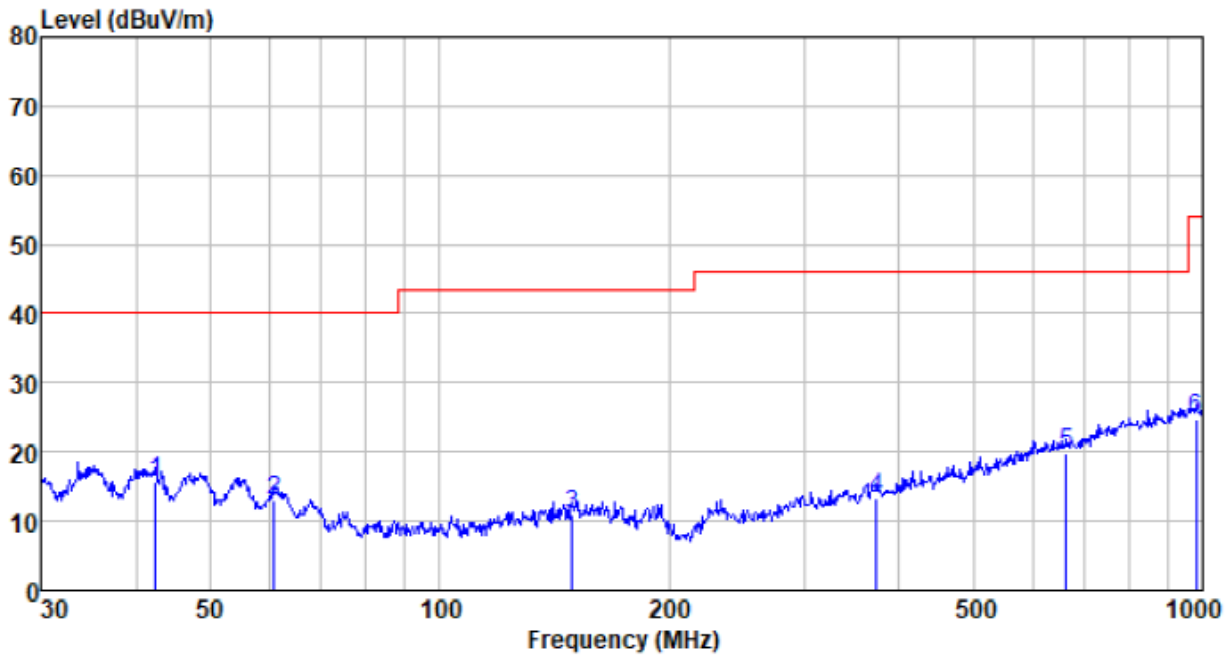
■ **Below 30MHz**

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

■ 30MHz ~ 1GHz

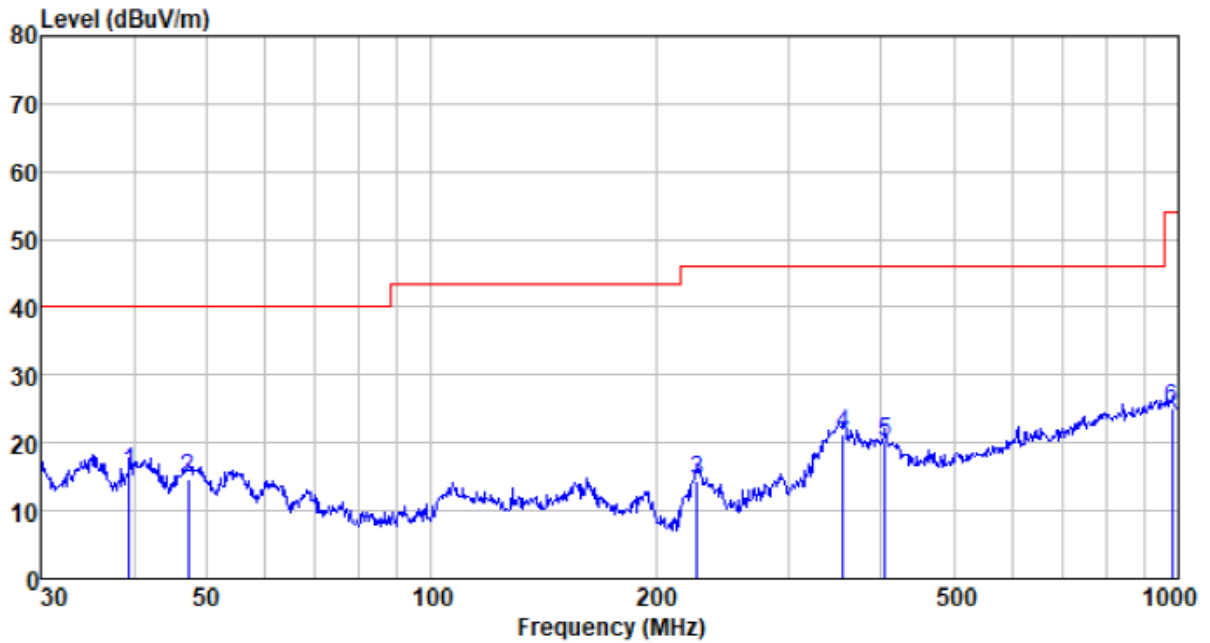
ANT 1:

Test channel:	Lowest	Polarization:	Horizontal
---------------	--------	---------------	------------



Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
42.451	37.77	13.11	0.69	35.80	15.77	40.00	-24.23	QP
60.704	36.39	12.19	0.87	36.33	13.12	40.00	-26.88	QP
148.963	33.60	12.73	1.56	37.07	10.82	43.50	-32.68	QP
373.311	33.99	14.15	2.73	37.50	13.37	46.00	-32.63	QP
663.473	33.44	20.03	3.96	37.60	19.83	46.00	-26.17	QP
979.180	33.28	23.99	5.14	37.53	24.88	54.00	-29.12	QP

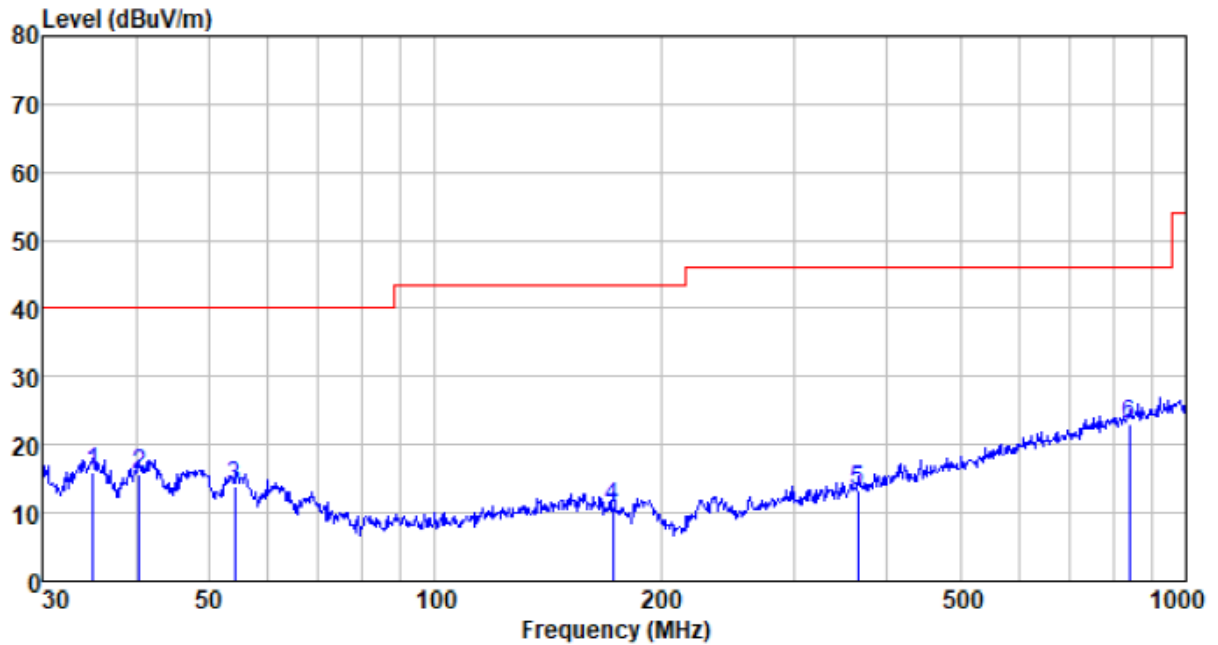
Test channel:	Lowest	Polarization:	Vertical
---------------	--------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.437	37.55	13.17	0.65	35.63	15.74	40.00	-24.26	QP
47.326	37.05	13.00	0.74	36.05	14.74	40.00	-25.26	QP
226.894	40.57	9.29	2.00	37.36	14.50	46.00	-31.50	QP
355.427	42.27	13.69	2.64	37.48	21.12	46.00	-24.88	QP
404.667	39.95	14.82	2.88	37.52	20.13	46.00	-25.87	QP
979.180	33.38	23.99	5.14	37.53	24.98	54.00	-29.02	QP

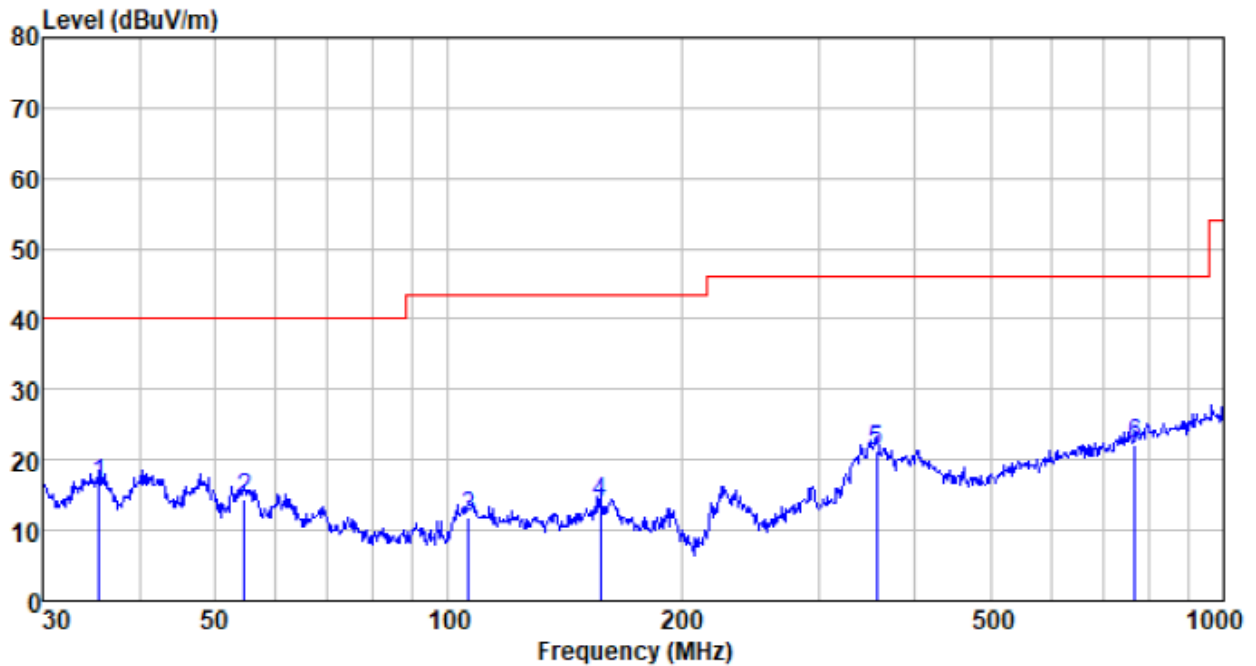


Test channel:	Middle	Polarization:	Horizontal
---------------	--------	---------------	------------



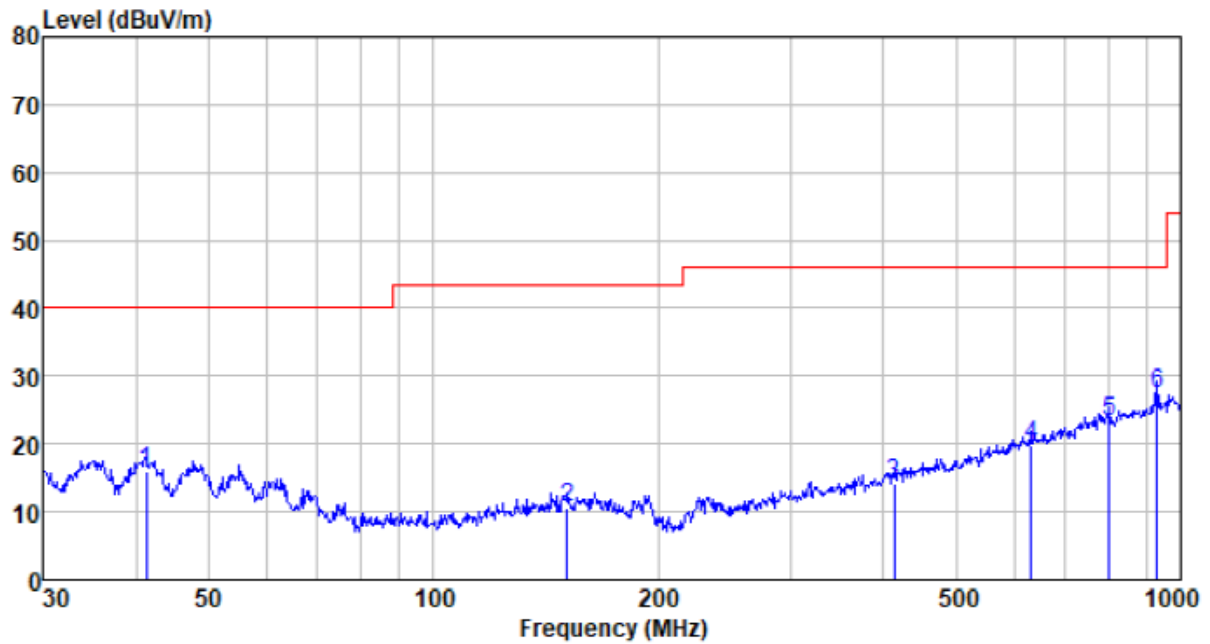
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
35.005	38.12	12.50	0.61	35.36	15.87	40.00	-24.13	QP
40.417	37.49	13.23	0.66	35.69	15.69	40.00	-24.31	QP
54.071	36.79	12.64	0.81	36.24	14.00	40.00	-26.00	QP
172.599	34.29	12.07	1.70	37.20	10.86	43.50	-32.64	QP
365.539	34.25	13.95	2.69	37.49	13.40	46.00	-32.60	QP
839.182	33.63	22.51	4.62	37.61	23.15	46.00	-22.85	QP

Test channel:	Middle	Polarization:	Vertical
---------------	--------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
35.499	38.76	12.58	0.61	35.39	16.56	40.00	-23.44	QP
54.643	37.27	12.58	0.81	36.25	14.41	40.00	-25.59	QP
106.385	37.68	9.67	1.25	36.77	11.83	43.50	-31.67	QP
157.007	36.67	12.77	1.61	37.12	13.93	43.50	-29.57	QP
356.676	42.37	13.72	2.65	37.48	21.26	46.00	-24.74	QP
768.748	33.54	21.81	4.35	37.62	22.08	46.00	-23.92	QP

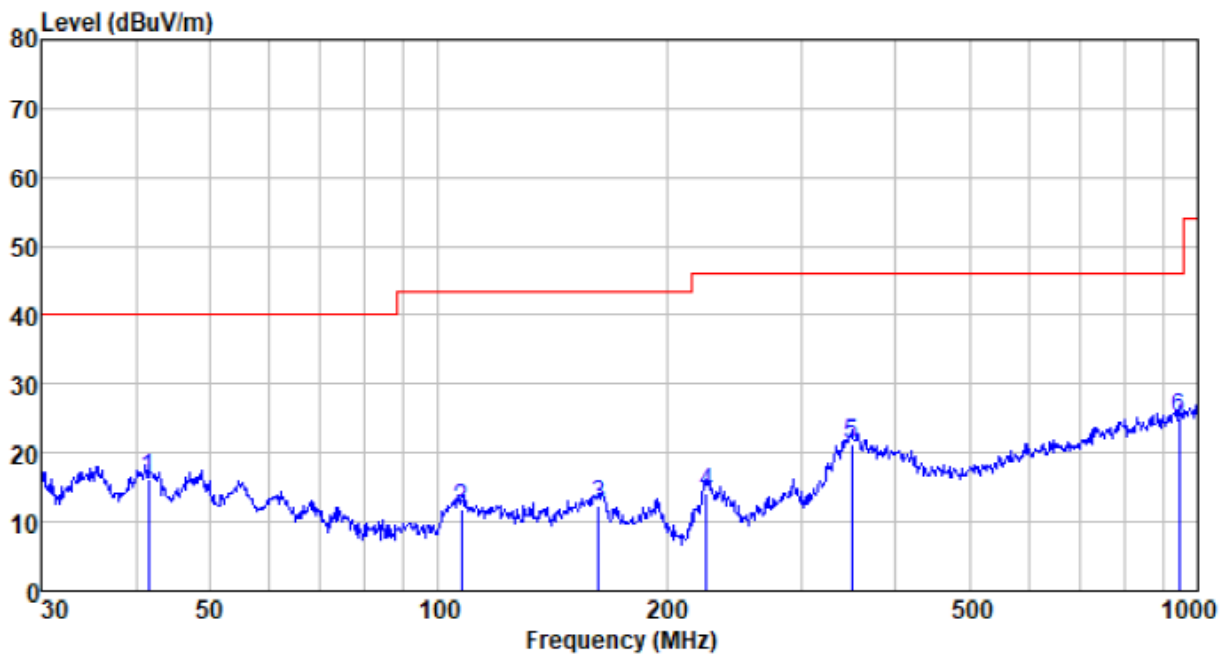
Test channel:	Highest	Polarization:	Horizontal
---------------	---------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
41.277	37.79	13.18	0.68	35.74	15.91	40.00	-24.09	QP
151.067	33.44	12.80	1.58	37.08	10.74	43.50	-32.76	QP
413.271	33.80	15.04	2.92	37.52	14.24	46.00	-31.76	QP
631.688	33.82	19.77	3.84	37.57	19.86	46.00	-26.14	QP
801.786	34.20	22.25	4.46	37.62	23.29	46.00	-22.71	QP
929.008	36.42	23.55	4.96	37.57	27.36	46.00	-18.64	QP



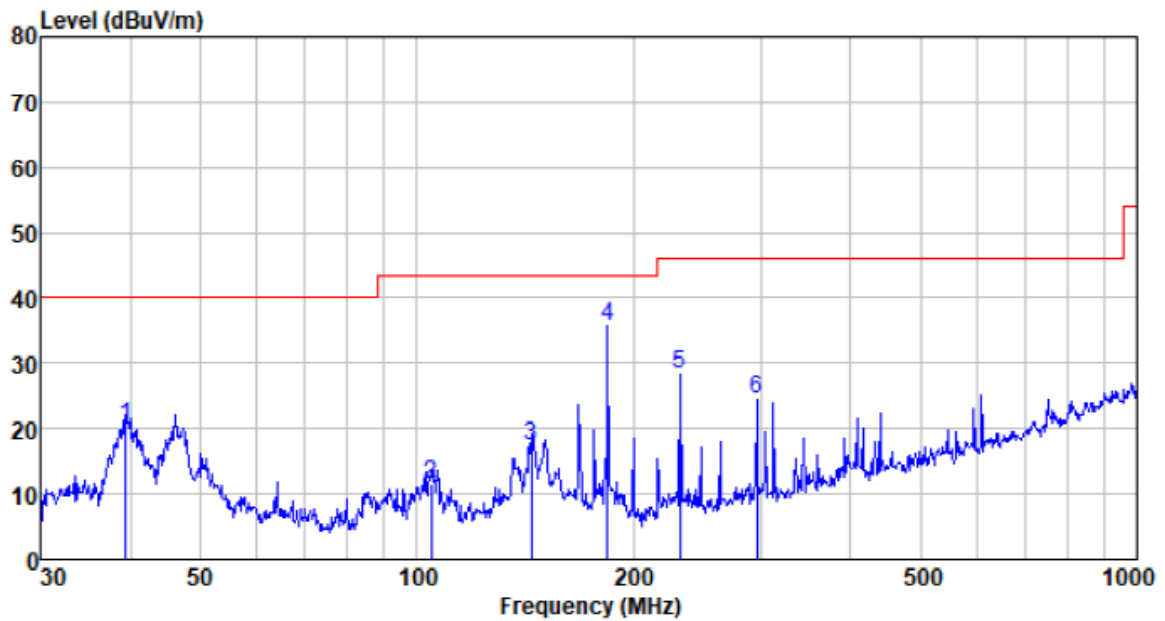
Test channel:	Highest	Polarization:	Vertical
---------------	---------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
41.567	38.20	13.17	0.68	35.75	16.30	40.00	-23.70	QP
107.134	37.74	9.73	1.25	36.78	11.94	43.50	-31.56	QP
162.611	35.12	12.68	1.65	37.15	12.30	43.50	-31.20	QP
225.308	40.45	9.23	1.99	37.36	14.31	46.00	-31.69	QP
350.477	42.47	13.56	2.62	37.47	21.18	46.00	-24.82	QP
945.440	33.59	23.89	5.03	37.56	24.95	46.00	-21.05	QP

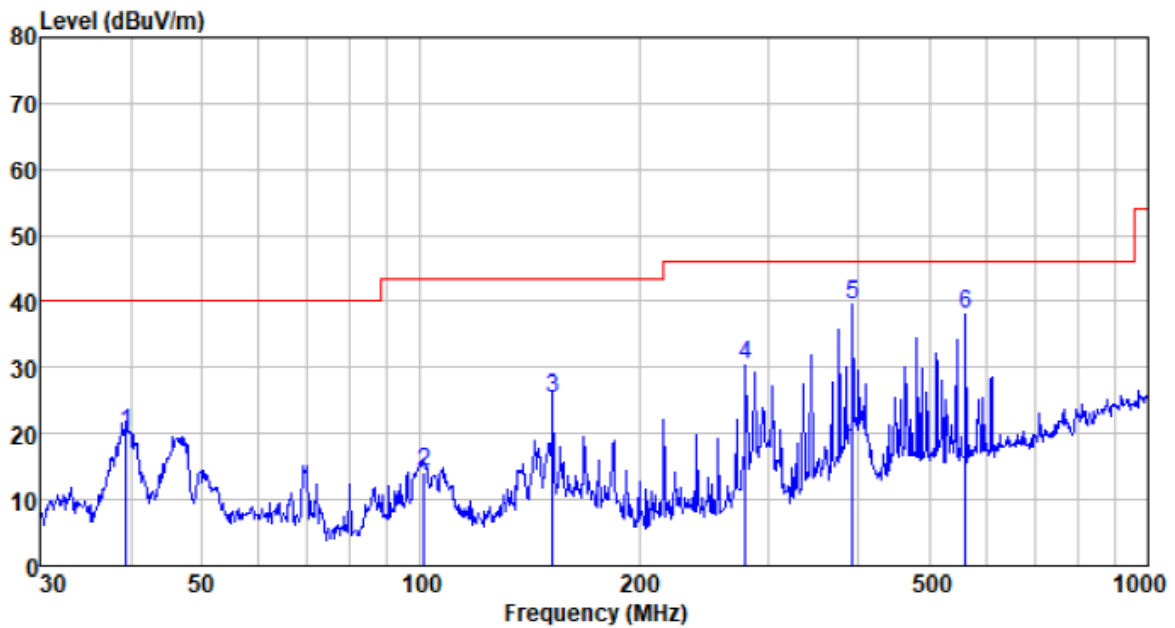
**ANT 2:**

Test channel:	Lowest	Polarization:	Horizontal
---------------	--------	---------------	------------



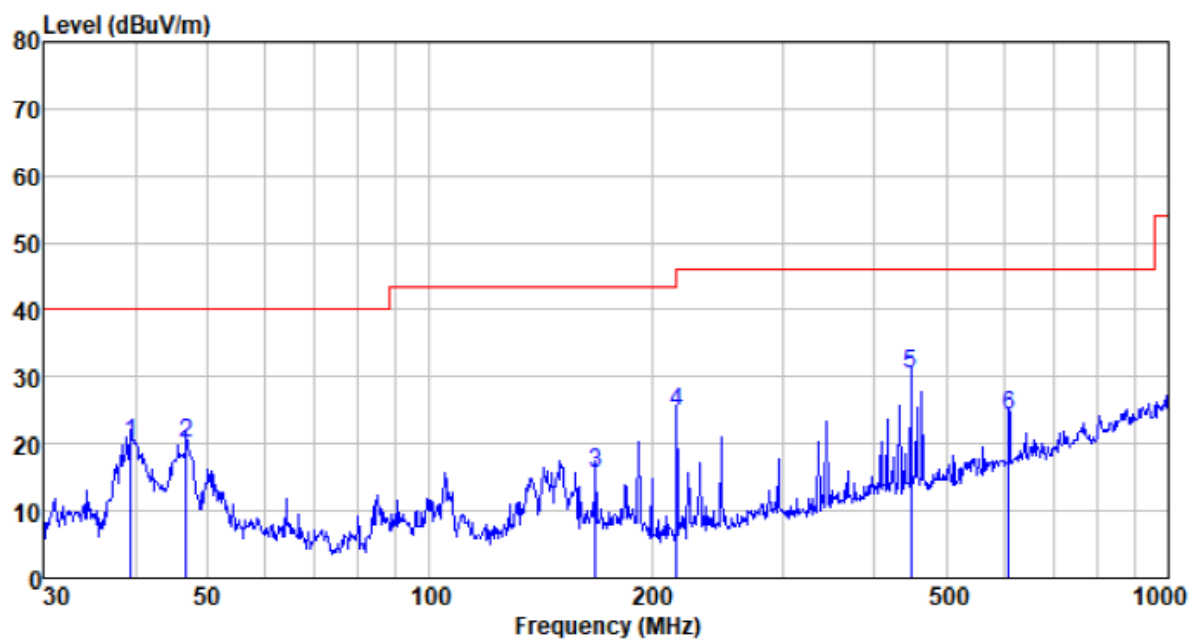
Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
39.437	38.18	13.42	0.65	32.00	20.25	40.00	-19.75	QP
104.536	32.25	10.06	1.23	32.00	11.54	43.50	-31.96	QP
144.335	35.29	12.45	1.53	32.00	17.27	43.50	-26.23	QP
183.844	55.98	10.08	1.76	32.00	35.82	43.50	-7.68	QP
231.718	47.32	11.08	2.02	32.00	28.42	46.00	-17.58	QP
296.184	41.68	12.49	2.34	32.00	24.51	46.00	-21.49	QP

Test channel:	Lowest	Polarization:	Vertical
---------------	--------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.437	37.89	13.42	0.65	32.00	19.96	40.00	-20.04	QP
101.289	35.29	9.81	1.20	32.00	14.30	43.50	-29.20	QP
152.130	43.20	12.52	1.58	32.00	25.30	43.50	-18.20	QP
280.024	47.23	12.90	2.27	32.00	30.40	46.00	-15.60	QP
392.095	53.35	15.47	2.82	32.00	39.64	46.00	-6.36	QP
560.693	47.82	18.67	3.56	32.00	38.05	46.00	-7.95	QP

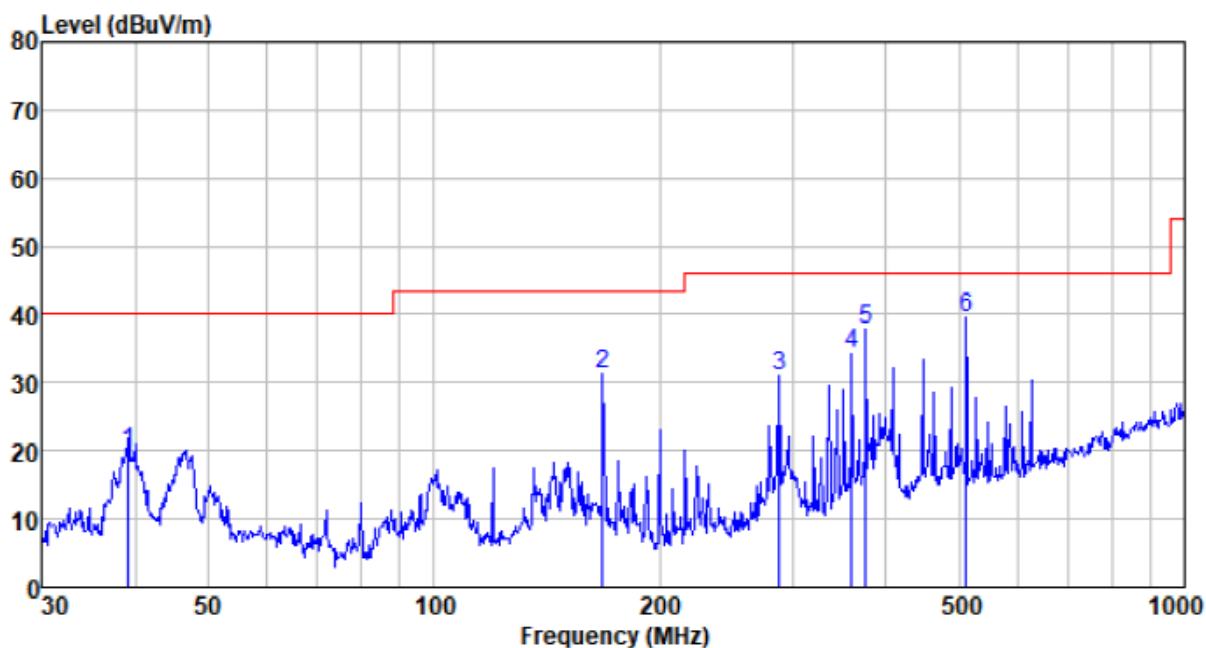
Test channel:	Middle	Polarization:	Horizontal
---------------	--------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.437	38.13	13.42	0.65	32.00	20.20	40.00	-19.80	QP
46.830	37.93	13.29	0.74	32.00	19.96	40.00	-20.04	QP
167.824	34.21	11.67	1.67	32.00	15.55	43.50	-27.95	QP
216.024	44.76	10.09	1.93	32.00	24.78	46.00	-21.22	QP
447.982	42.72	16.66	3.08	32.00	30.46	46.00	-15.54	QP
607.787	33.15	19.43	3.75	32.00	24.33	46.00	-21.67	QP

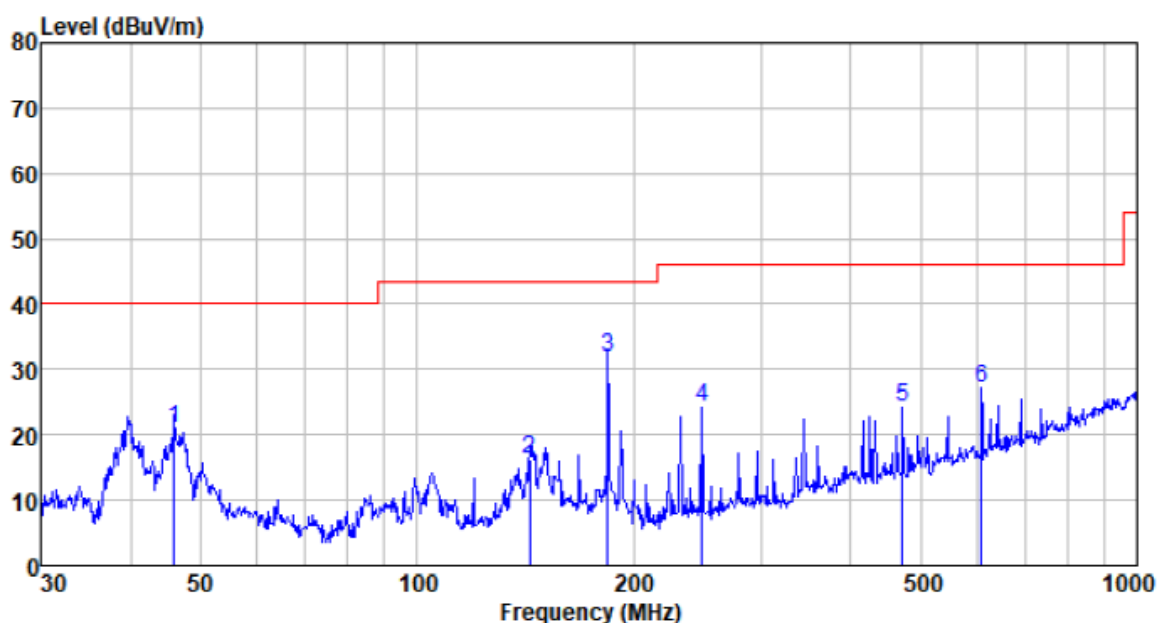


Test channel:	Middle	Polarization:	Vertical
---------------	--------	---------------	----------



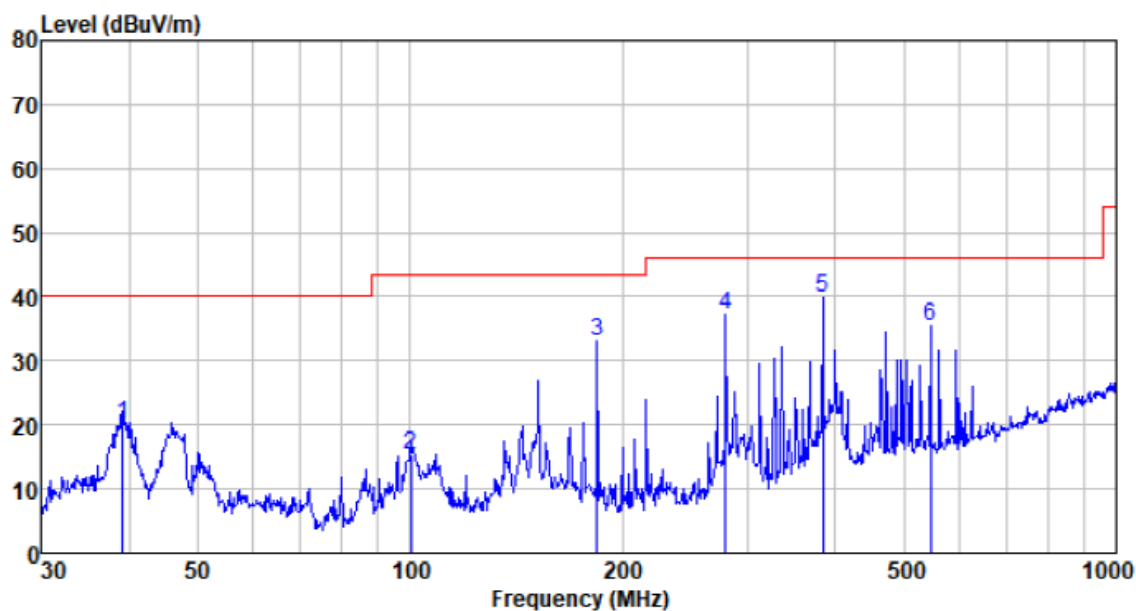
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.162	37.77	13.37	0.65	32.00	19.79	40.00	-20.21	QP
167.824	50.00	11.67	1.67	32.00	31.34	43.50	-12.16	QP
287.990	48.03	12.70	2.31	32.00	31.04	46.00	-14.96	QP
360.448	49.00	14.51	2.67	32.00	34.18	46.00	-11.82	QP
375.939	52.05	14.99	2.75	32.00	37.79	46.00	-8.21	QP
511.835	50.36	17.82	3.36	32.00	39.54	46.00	-6.46	QP

Test channel:	Highest	Polarization:	Horizontal
---------------	---------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
46.016	38.85	13.31	0.73	32.00	20.89	40.00	-19.11	QP
143.326	34.33	12.44	1.53	32.00	16.30	43.50	-27.20	QP
183.844	52.13	10.08	1.76	32.00	31.97	43.50	-11.53	QP
248.552	42.57	11.47	2.12	32.00	24.16	46.00	-21.84	QP
472.176	35.85	17.11	3.19	32.00	24.15	46.00	-21.85	QP
607.787	35.89	19.43	3.75	32.00	27.07	46.00	-18.93	QP

Test channel:	Highest	Polarization:	Vertical
---------------	---------	---------------	----------

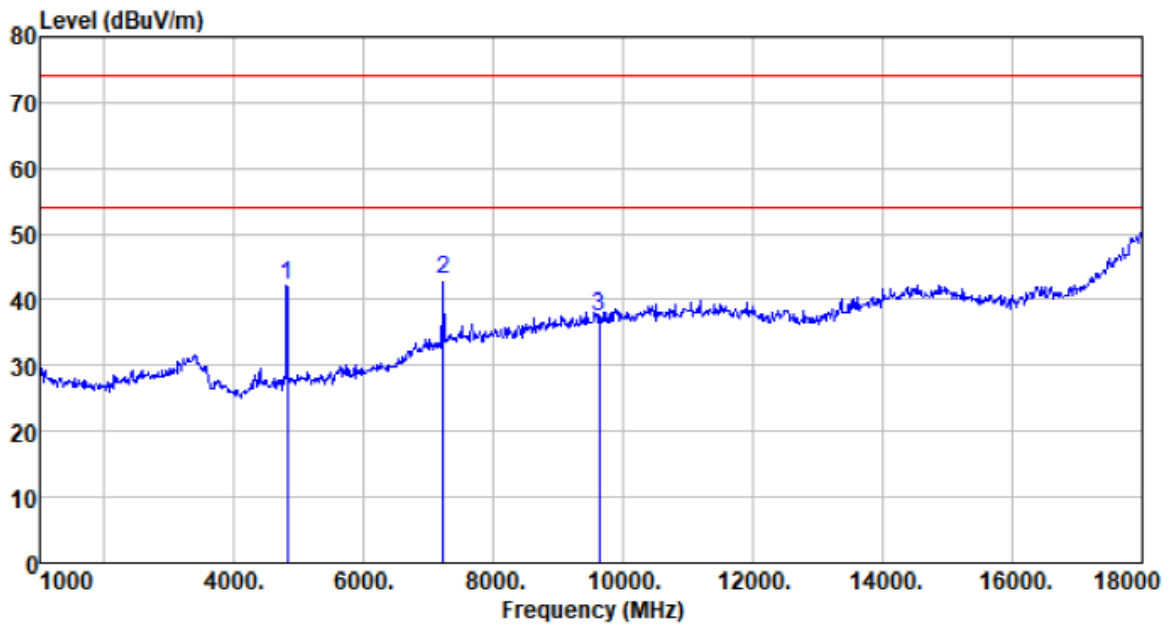


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.162	37.99	13.37	0.65	32.00	20.01	40.00	-19.99	QP
100.229	36.44	9.72	1.19	32.00	15.35	43.50	-28.15	QP
183.844	53.32	10.08	1.76	32.00	33.16	43.50	-10.34	QP
280.024	53.97	12.90	2.27	32.00	37.14	46.00	-8.86	QP
383.932	53.95	15.23	2.78	32.00	39.96	46.00	-6.04	QP
545.183	45.64	18.41	3.50	32.00	35.55	46.00	-10.45	QP

- Unwanted Emissions in Restricted Frequency Bands
- Above 1GHz

ANT 1:

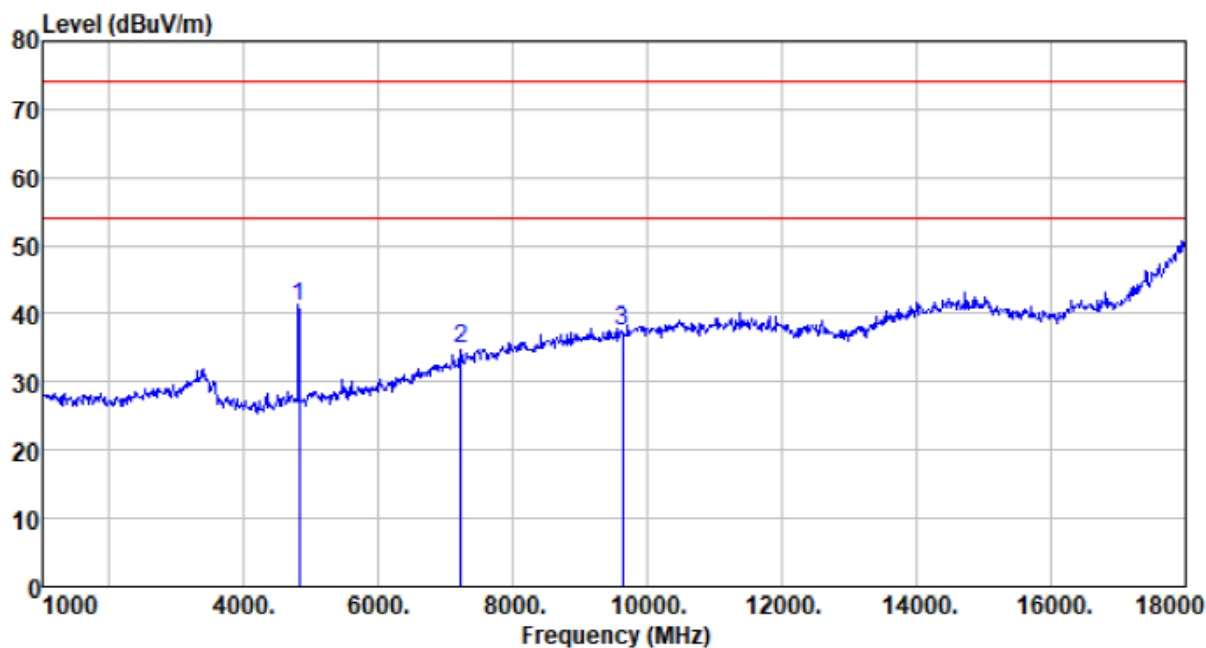
Test channel:	Lowest	Polarization:	Horizontal
---------------	--------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4812.000	44.04	31.22	4.61	37.73	42.14	74.00	-31.86	Peak
7218.000	35.98	36.20	6.50	35.63	43.05	74.00	-30.95	Peak
9624.000	26.41	37.93	7.98	34.94	37.38	74.00	-36.62	Peak

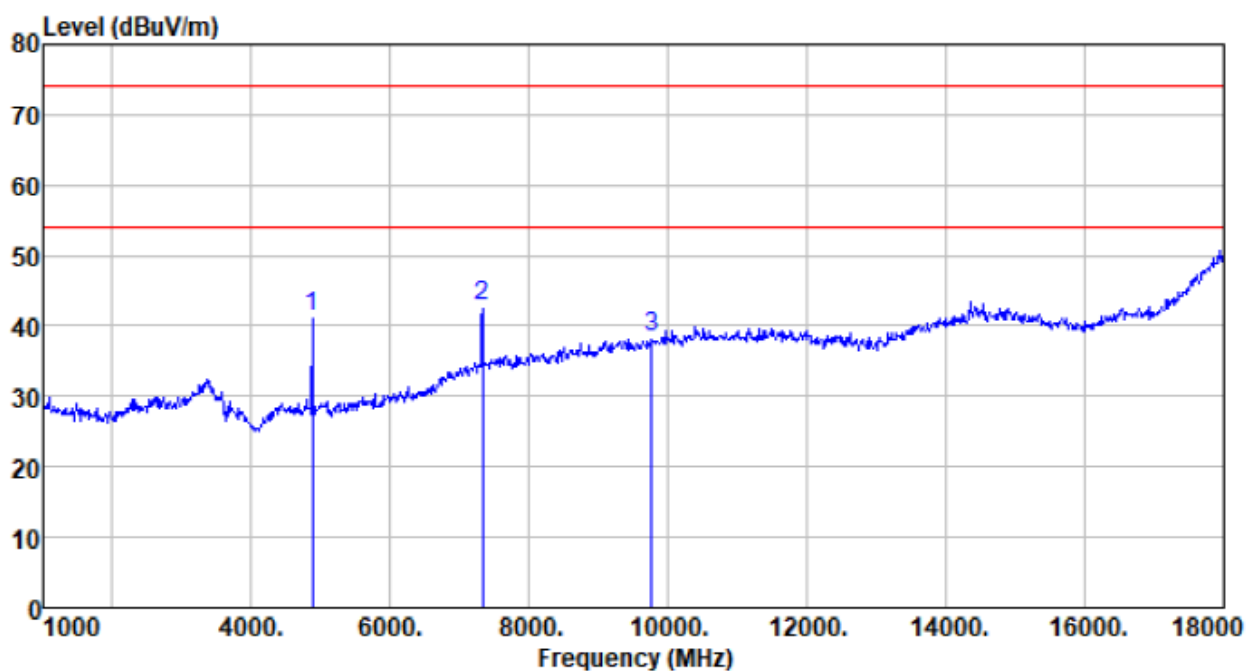


Test channel:	Lowest	Polarization:	Vertical
---------------	--------	---------------	----------



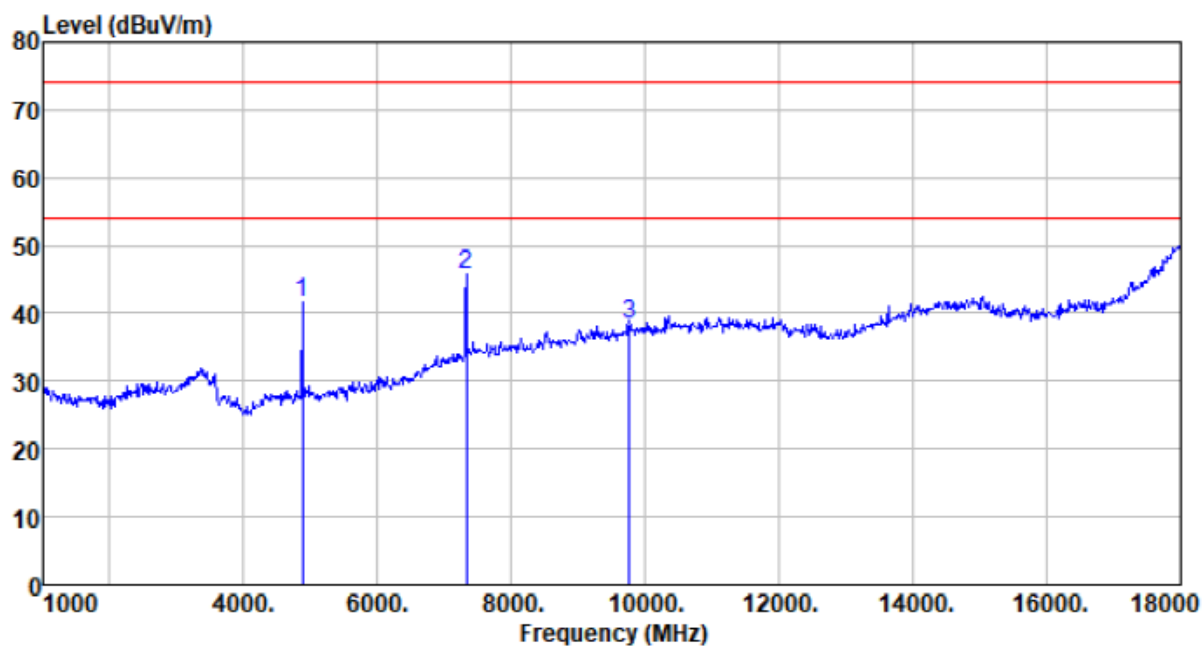
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4812.000	42.98	31.22	4.61	37.73	41.08	74.00	-32.92	Peak
7218.000	27.68	36.20	6.50	35.63	34.75	74.00	-39.25	Peak
9624.000	26.51	37.93	7.98	34.94	37.48	74.00	-36.52	Peak

Test channel:	Middle	Polarization:	Horizontal
---------------	--------	---------------	------------



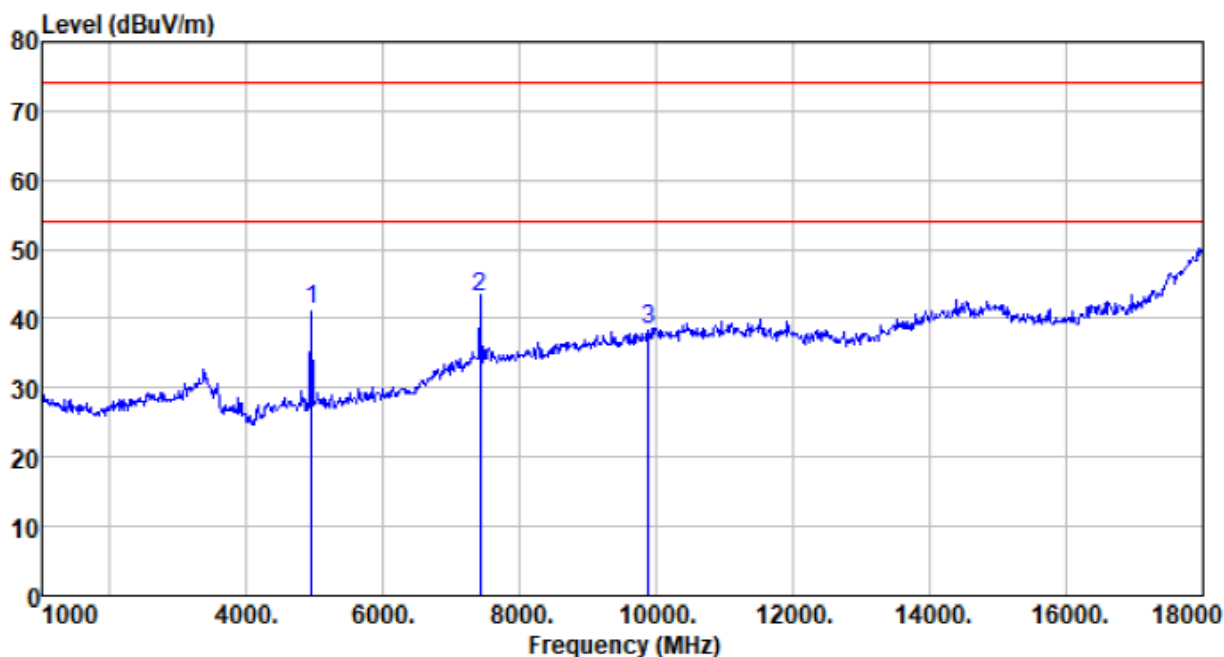
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	42.99	31.31	4.69	37.75	41.24	74.00	-32.76	Peak
7320.000	35.30	36.43	6.63	35.60	42.76	74.00	-31.24	Peak
9760.000	27.18	38.10	8.03	35.03	38.28	74.00	-35.72	Peak

Test channel:	Middle	Polarization:	Vertical
---------------	--------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	43.34	31.31	4.69	37.75	41.59	74.00	-32.41	Peak
7320.000	38.25	36.43	6.63	35.60	45.71	74.00	-28.29	Peak
9760.000	27.18	38.10	8.03	35.03	38.28	74.00	-35.72	Peak

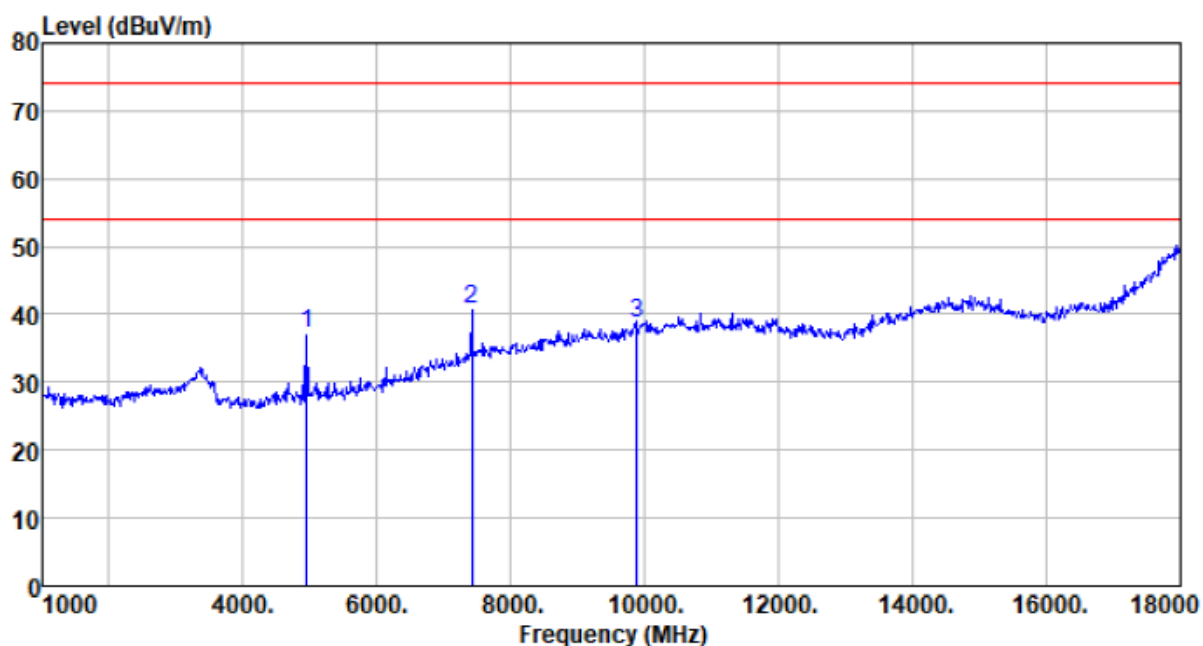
Test channel:	Highest	Polarization:	Horizontal
---------------	---------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4944.000	43.00	31.41	4.77	37.78	41.40	74.00	-32.60	Peak
7416.000	35.39	36.62	6.73	35.57	43.17	74.00	-30.83	Peak
9888.000	27.07	38.27	8.08	35.12	38.30	74.00	-35.70	Peak



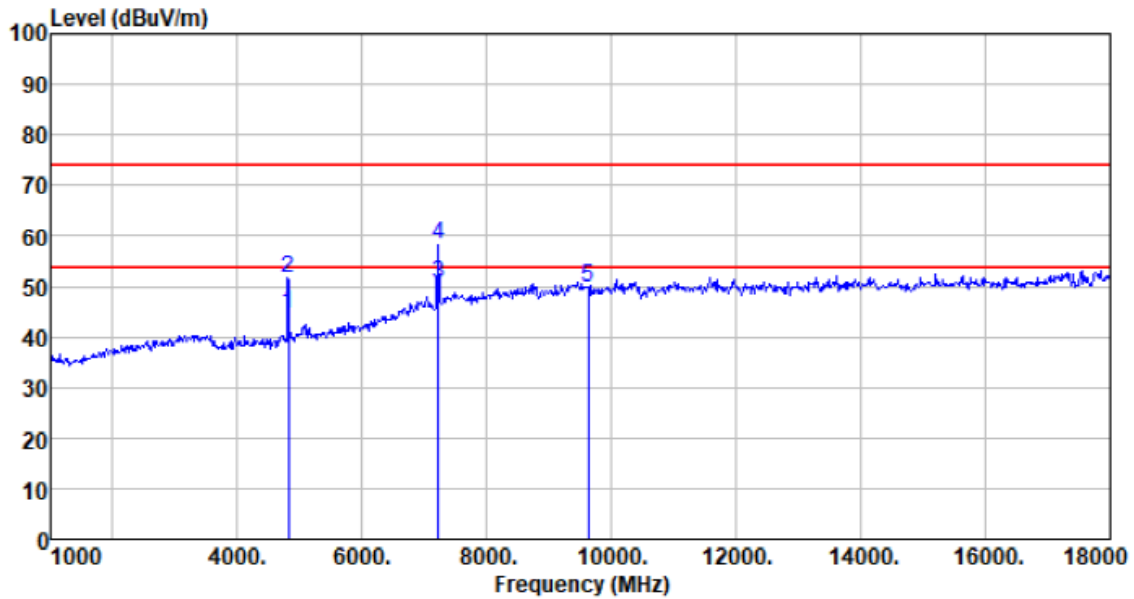
Test channel:	Highest	Polarization:	Vertical
---------------	---------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4944.000	38.76	31.41	4.77	37.78	37.16	74.00	-36.84	Peak
7416.000	33.01	36.62	6.73	35.57	40.79	74.00	-33.21	Peak
9888.000	27.53	38.27	8.08	35.12	38.76	74.00	-35.24	Peak

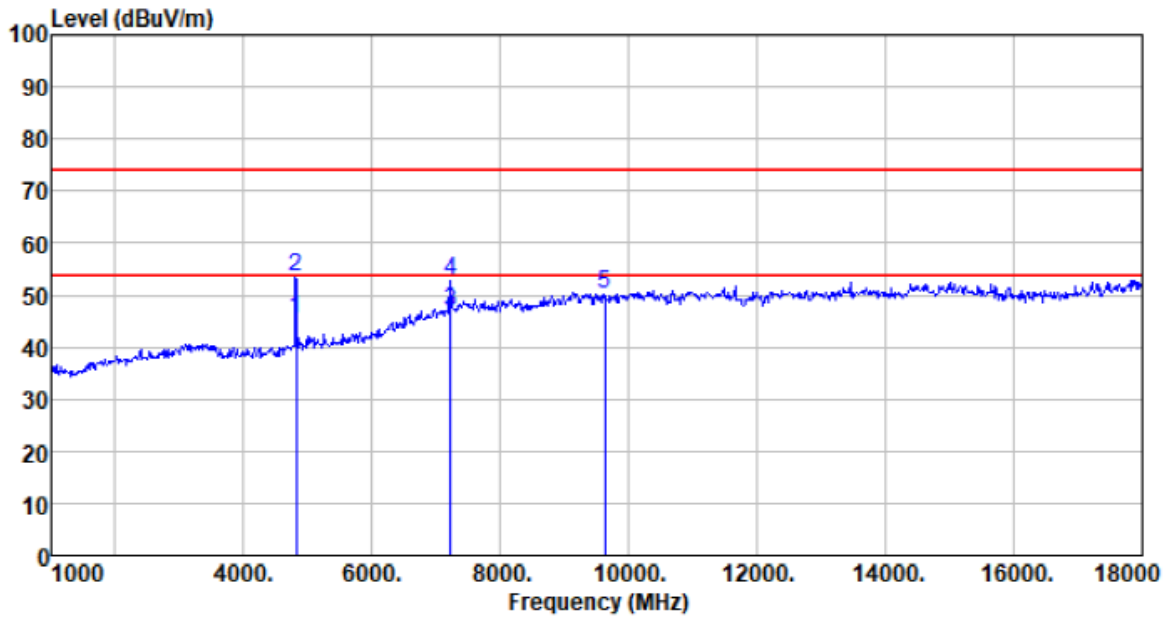
**ANT 2:**

Test channel:	Lowest	Polarization:	Horizontal
---------------	--------	---------------	------------



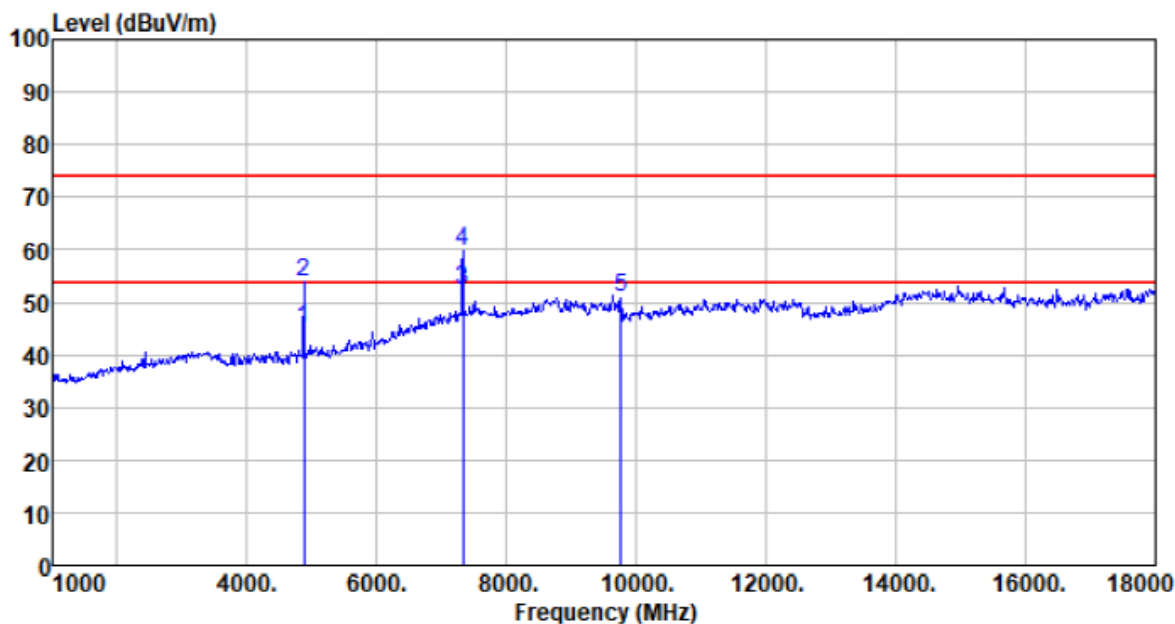
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4812.000	47.47	31.07	4.61	38.36	44.79	54.00	-9.21	Average
4812.000	54.21	31.07	4.61	38.36	51.53	74.00	-22.47	Peak
7218.000	46.92	35.94	6.50	38.97	50.39	54.00	-3.61	Average
7218.000	54.77	35.94	6.50	38.97	58.24	74.00	-15.76	Peak
9624.000	43.66	37.92	7.98	39.69	49.87	74.00	-24.13	Peak

Test channel:	Lowest	Polarization:	Vertical
---------------	--------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4812.000	48.20	31.07	4.61	38.36	45.52	54.00	-8.48	Average
4812.000	56.13	31.07	4.61	38.36	53.45	74.00	-20.55	Peak
7218.000	43.25	35.94	6.50	38.97	46.72	54.00	-7.28	Average
7218.000	49.14	35.94	6.50	38.97	52.61	74.00	-21.39	Peak
9624.000	44.02	37.92	7.98	39.69	50.23	74.00	-23.77	Peak

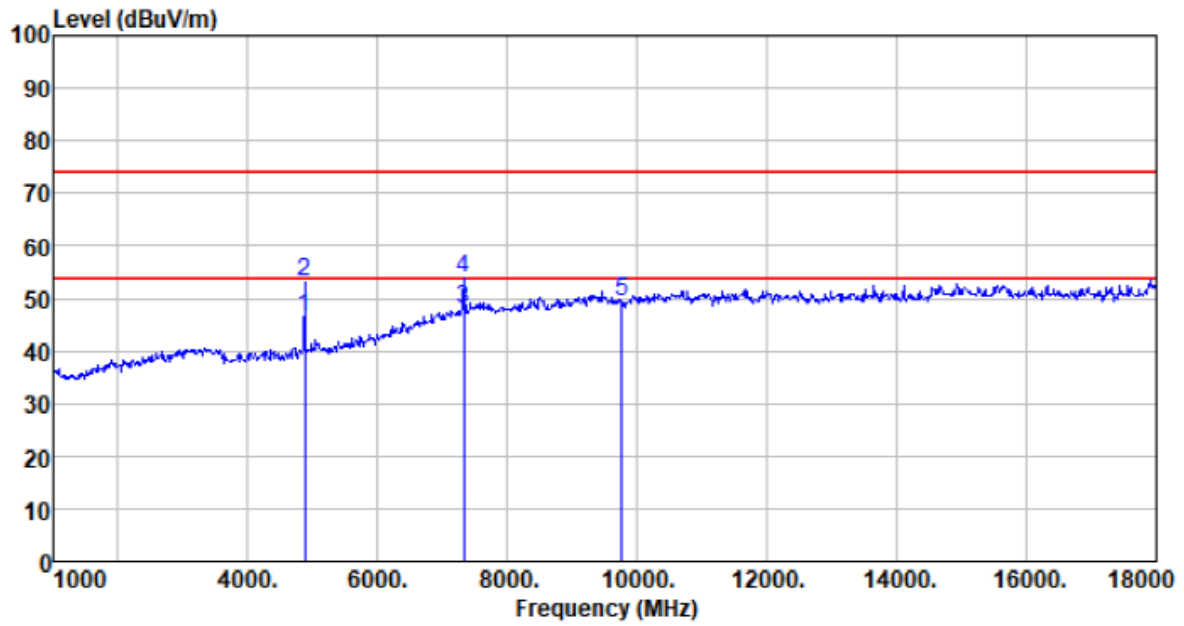
Test channel:	Middle	Polarization:	Horizontal
---------------	--------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	47.50	31.26	4.69	38.38	45.07	54.00	-8.93	Average
4880.000	56.32	31.26	4.69	38.38	53.89	74.00	-20.11	Peak
7320.000	48.53	36.14	6.63	39.00	52.30	54.00	-1.70	Average
7320.000	55.99	36.14	6.63	39.00	59.76	74.00	-14.24	Peak
9760.000	44.48	38.06	8.03	39.73	50.84	74.00	-23.16	Peak

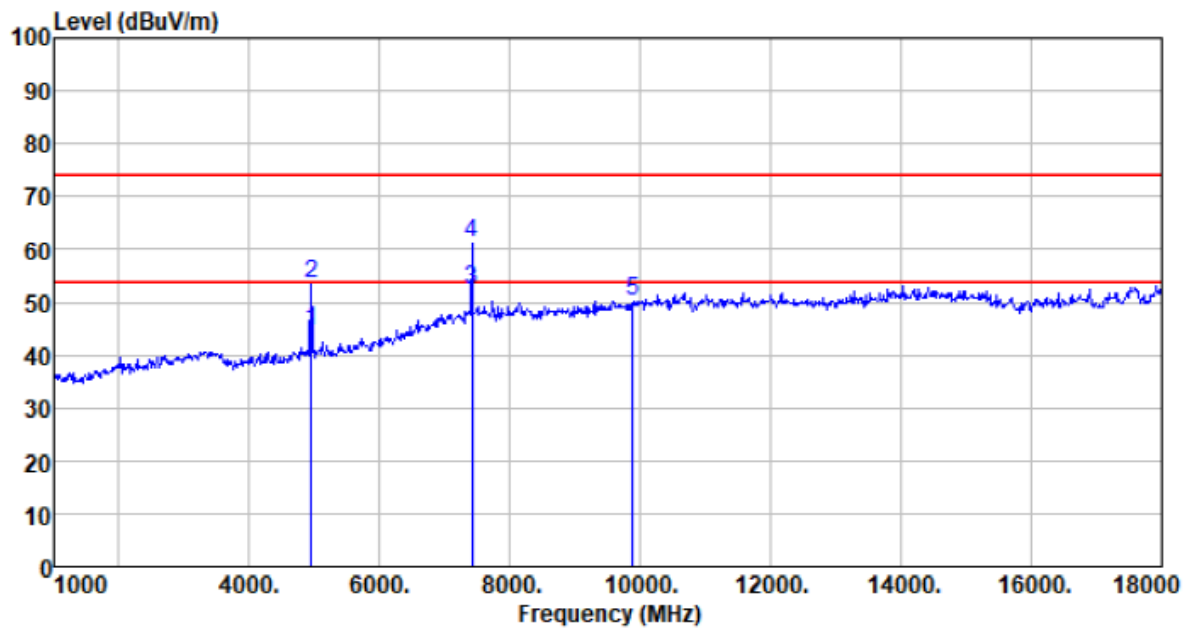


Test channel:	Middle	Polarization:	Vertical
---------------	--------	---------------	----------



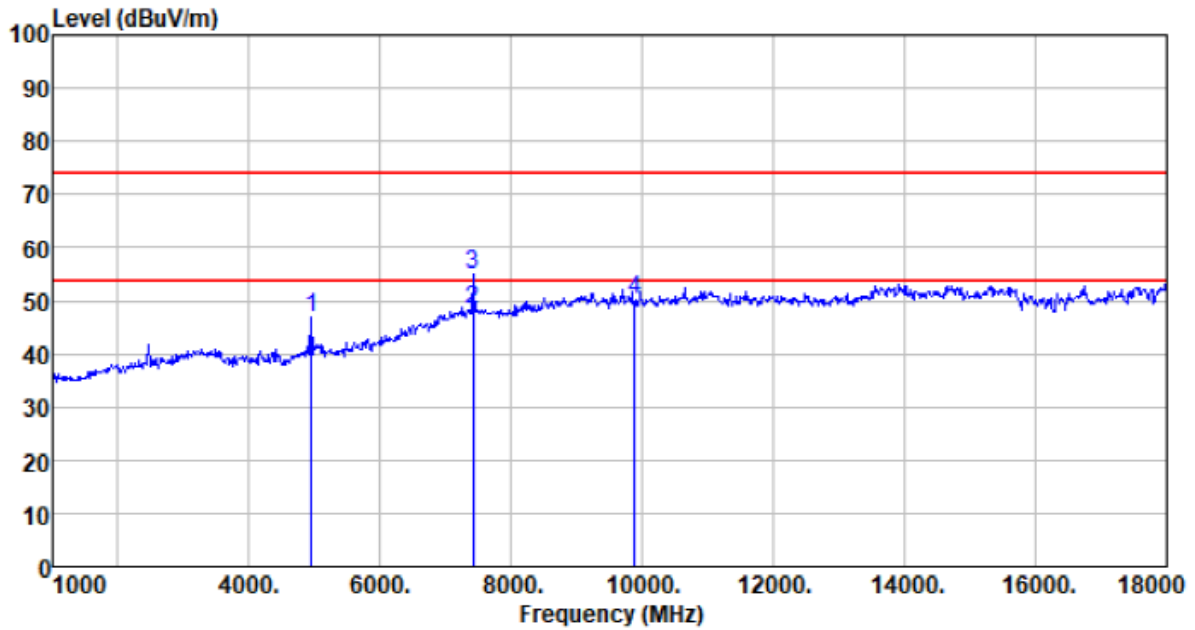
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.000	48.98	31.26	4.69	38.38	46.55	54.00	-7.45	Average
4880.000	55.75	31.26	4.69	38.38	53.32	74.00	-20.68	Peak
7320.000	44.27	36.14	6.63	39.00	48.04	54.00	-5.96	Average
7320.000	50.20	36.14	6.63	39.00	53.97	74.00	-20.03	Peak
9760.000	42.96	38.06	8.03	39.73	49.32	74.00	-24.68	Peak

Test channel:	Highest	Polarization:	Horizontal
---------------	---------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4944.000	46.66	31.44	4.77	38.39	44.48	54.00	-9.52	Average
4944.000	55.75	31.44	4.77	38.39	53.57	74.00	-20.43	Peak
7160.000	48.21	36.33	6.73	39.02	52.25	54.00	-1.75	Average
7160.000	57.20	36.33	6.73	39.02	61.24	74.00	-12.76	Peak
9888.000	43.74	38.19	8.08	39.77	50.24	74.00	-23.76	Peak

Test channel:	Highest	Polarization:	Vertical
---------------	---------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4944.000	48.97	31.44	4.77	38.39	46.79	74.00	-27.21	Peak
7416.000	44.29	36.33	6.73	39.02	48.33	54.00	-5.67	Average
7416.000	51.11	36.33	6.73	39.02	55.15	74.00	-18.85	Peak
9888.000	43.87	38.19	8.08	39.77	50.37	74.00	-23.63	Peak

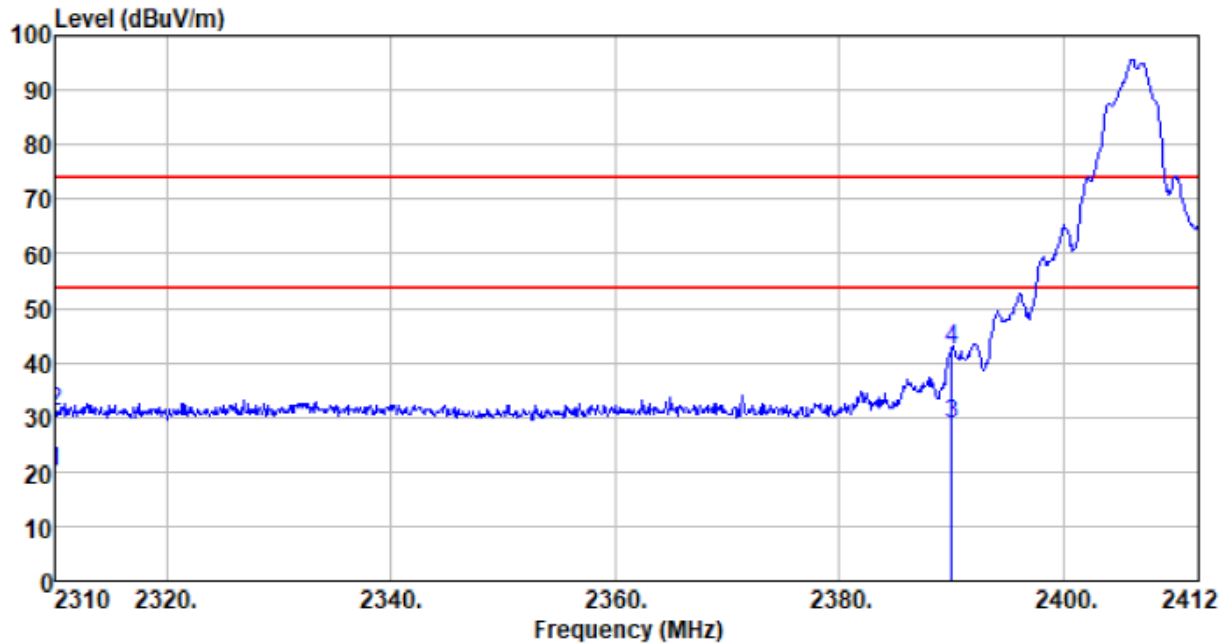
**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## Unwanted Emissions in Non-restricted Frequency Bands

ANT 1:

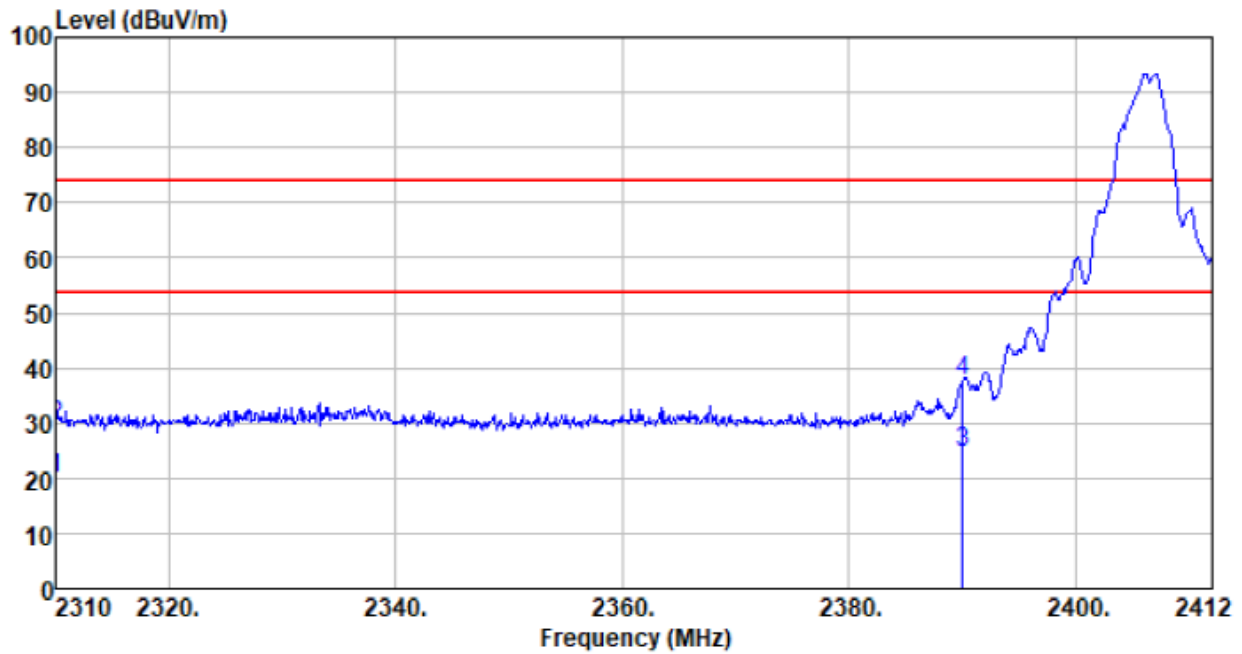
Test channel:	Lowest	Polarization:	Horizontal
---------------	--------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	28.60	27.14	2.81	38.64	19.91	54.00	-34.09	Average
2310.000	39.61	27.14	2.81	38.64	30.92	74.00	-43.08	Peak
2390.000	37.18	27.37	2.91	38.84	28.62	54.00	-25.38	Average
2390.000	51.07	27.37	2.91	38.84	42.51	74.00	-31.49	Peak

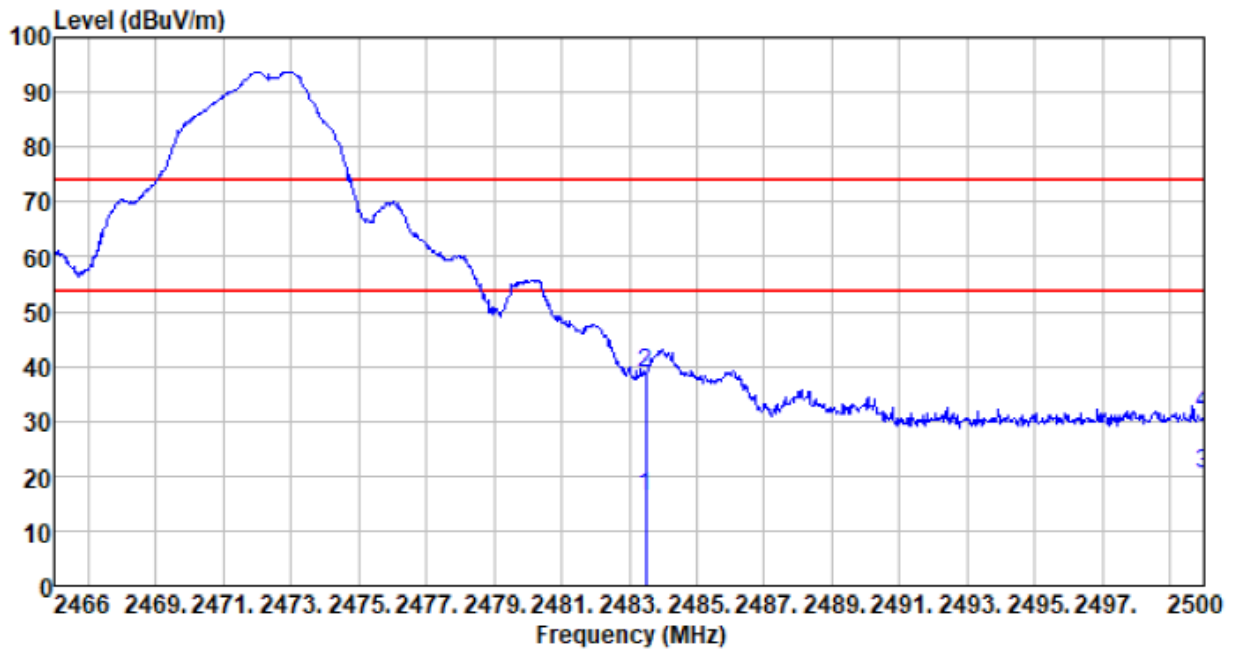


Test channel:	Lowest	Polarization:	Vertical
---------------	--------	---------------	----------



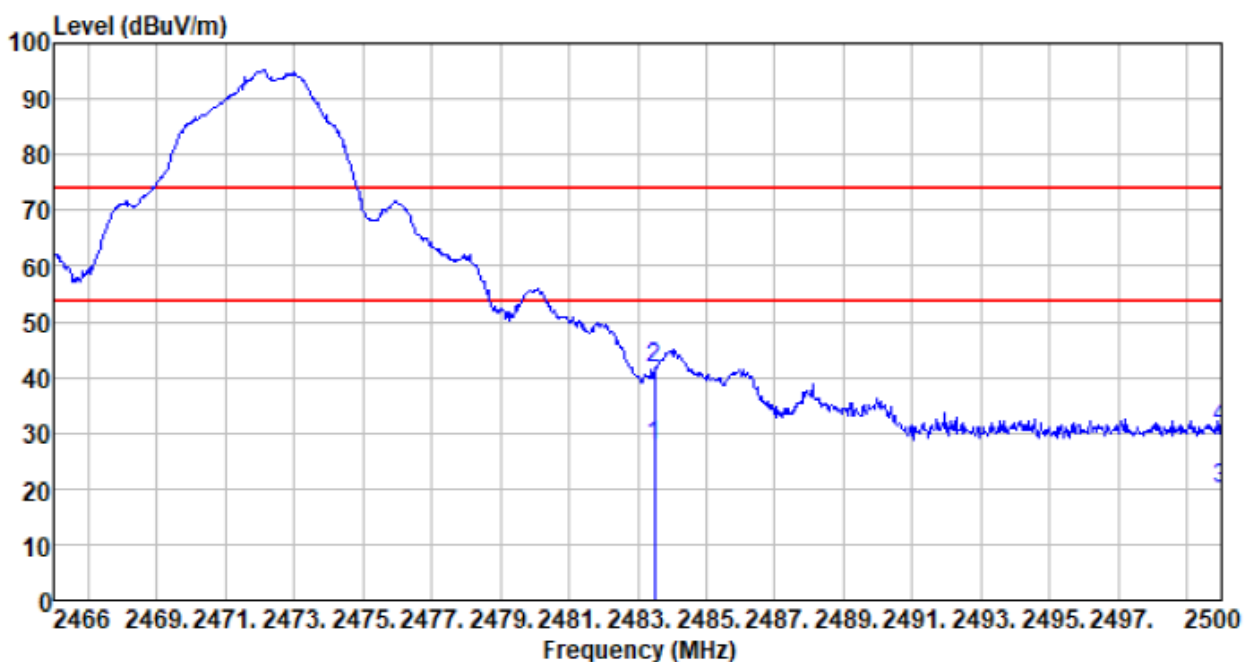
Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
2310.000	28.66	27.14	2.81	38.64	19.97	54.00	-34.03	Average
2310.000	38.39	27.14	2.81	38.64	29.70	74.00	-44.30	Peak
2390.000	33.25	27.37	2.91	38.84	24.69	54.00	-29.31	Average
2390.000	46.07	27.37	2.91	38.84	37.51	74.00	-36.49	Peak

Test channel:	Highest	Polarization:	Horizontal
---------------	---------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	24.80	27.66	2.99	39.06	16.39	54.00	-37.61	Average
2483.500	47.16	27.66	2.99	39.06	38.75	74.00	-35.25	Peak
2500.000	28.57	27.70	3.01	39.10	20.18	54.00	-33.82	Average
2500.000	39.67	27.70	3.01	39.10	31.28	74.00	-42.72	Peak

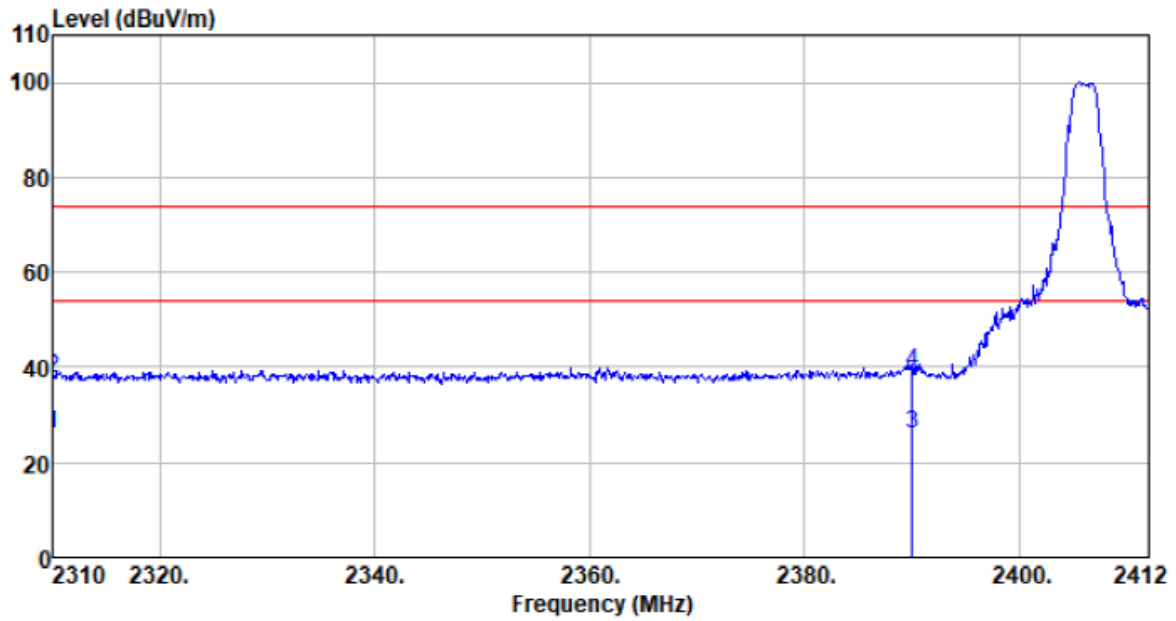
Test channel:	Highest	Polarization:	Vertical
---------------	---------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	36.23	27.66	2.99	39.06	27.82	54.00	-26.18	Average
2483.500	50.06	27.66	2.99	39.06	41.65	74.00	-32.35	Peak
2500.000	28.21	27.70	3.01	39.10	19.82	54.00	-34.18	Average
2500.000	39.49	27.70	3.01	39.10	31.10	74.00	-42.90	Peak

ANT 2:

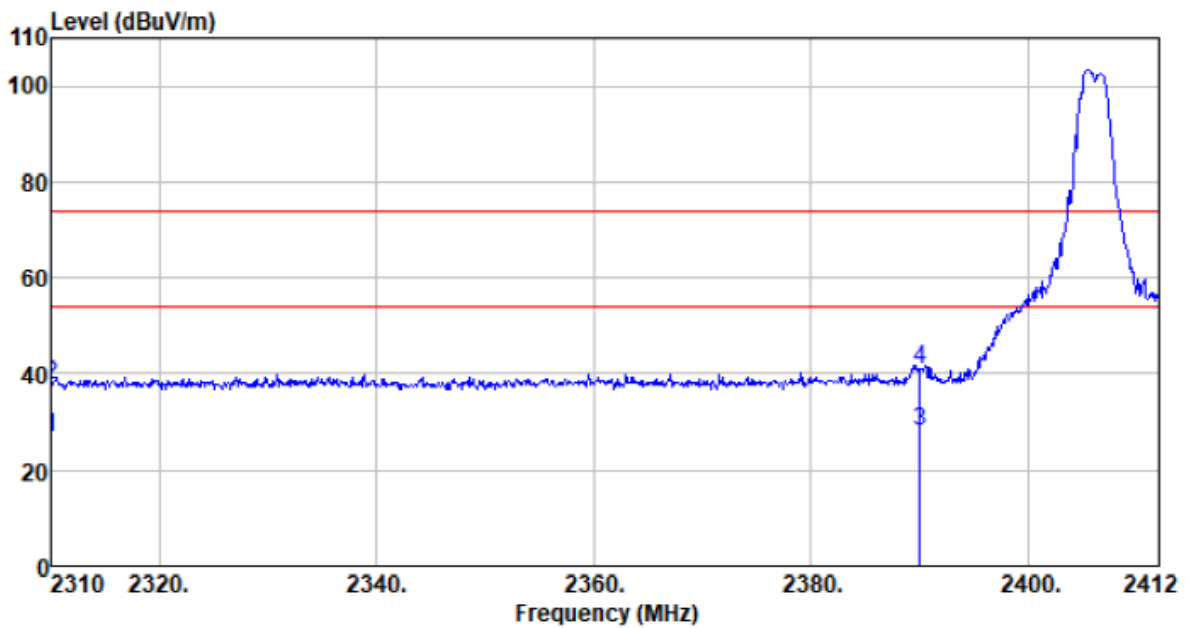
Test channel:	Lowest	Polarization:	Horizontal
---------------	--------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	34.48	27.17	2.81	38.52	25.94	54.00	-28.06	Average
2310.000	46.25	27.17	2.81	38.52	37.71	74.00	-36.29	Peak
2390.000	34.43	27.27	2.91	38.56	26.05	54.00	-27.95	Average
2390.000	47.40	27.27	2.91	38.56	39.02	74.00	-34.98	Peak

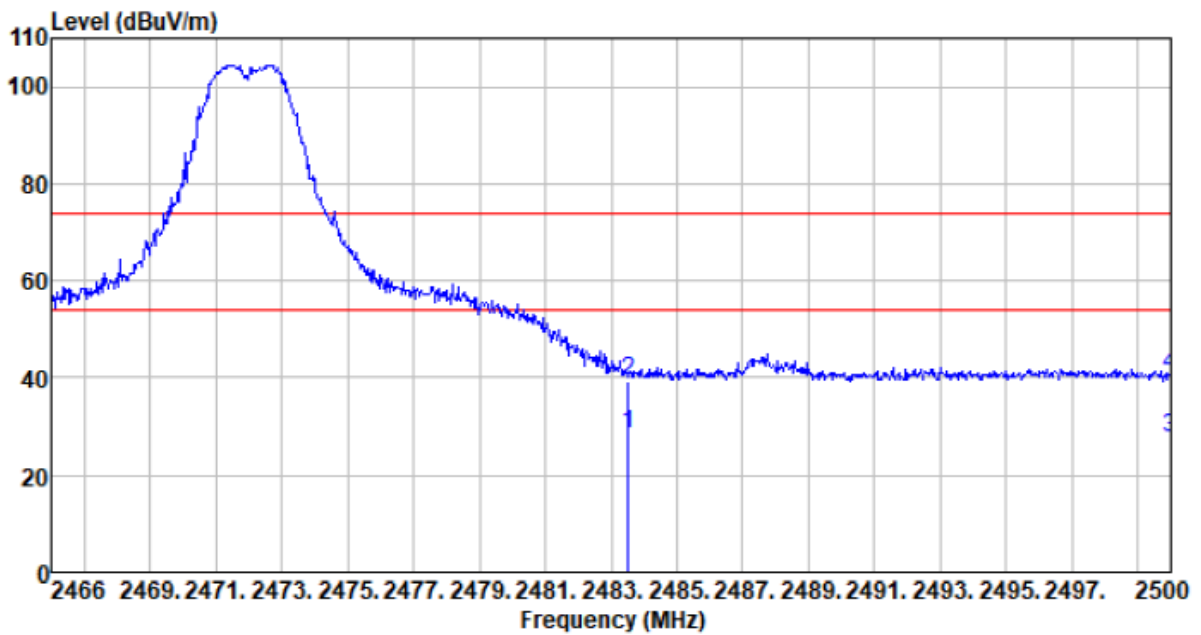


Test channel:	Lowest	Polarization:	Vertical
---------------	--------	---------------	----------



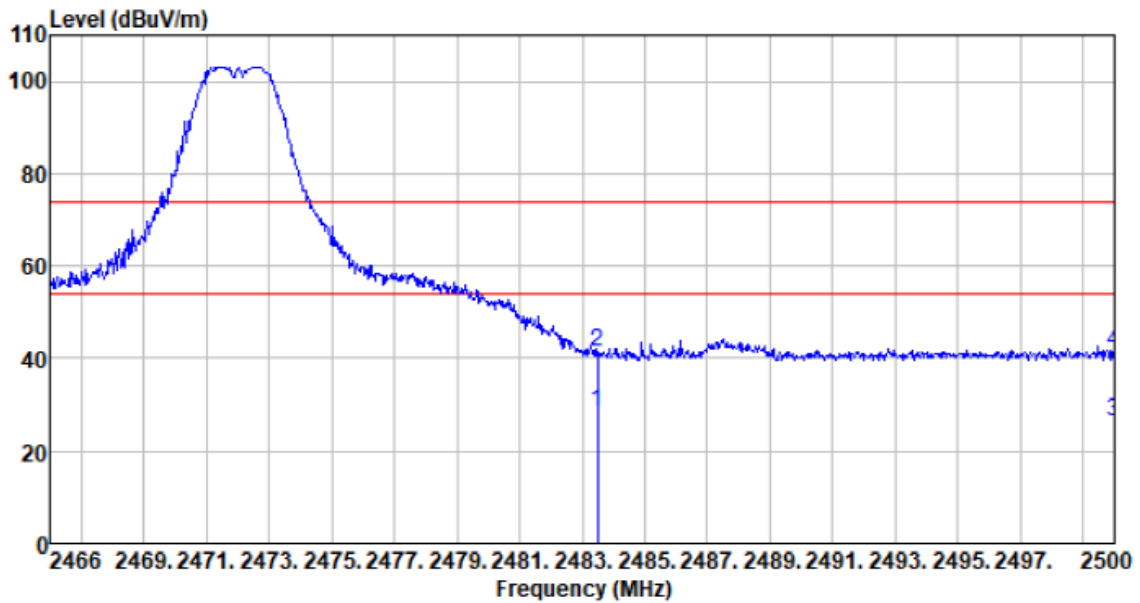
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	35.42	27.17	2.81	38.52	26.88	54.00	-27.12	Average
2310.000	46.32	27.17	2.81	38.52	37.78	74.00	-36.22	Peak
2390.000	36.44	27.27	2.91	38.56	28.06	54.00	-25.94	Average
2390.000	49.55	27.27	2.91	38.56	41.17	74.00	-32.83	Peak

Test channel:	Highest	Polarization:	Horizontal
---------------	---------	---------------	------------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.510	36.68	27.38	2.99	38.59	28.46	54.00	-25.54	Average
2483.510	47.54	27.38	2.99	38.59	39.32	74.00	-34.68	Peak
2500.000	35.85	27.40	3.01	38.60	27.66	54.00	-26.34	Average
2500.000	48.97	27.40	3.01	38.60	40.78	74.00	-33.22	Peak

Test channel:	Highest	Polarization:	Vertical
---------------	---------	---------------	----------



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	36.52	27.38	2.99	38.59	28.30	54.00	-25.70	Average
2483.500	49.49	27.38	2.99	38.59	41.27	74.00	-32.73	Peak
2500.000	34.57	27.40	3.01	38.60	26.38	54.00	-27.62	Average
2500.000	49.45	27.40	3.01	38.60	41.26	74.00	-32.74	Peak

**Remarks:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 8 Test Setup Photo

Reference to the **appendix I** for details.

## 9 EUT Constructional Details

Reference to the **appendix II** for details.

---End---