

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: ADD 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: 2.4GHz 4 CHANNEL RECEIVER

Model No.: INr4-GYB

Trade Mark: FLYSKY

FCC ID: N4ZINR4GYB0

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

Date of sample receipt: May 20, 2021

Date of Test: May 20-27, 2021

Date of report issued: May 28, 2021

Test Result : PASS *

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

Authorized Signature:



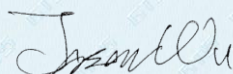
Robinson Luo
Laboratory Manager

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

Version No.	Date	Description
00	May 28, 2021	Original

Prepared By:

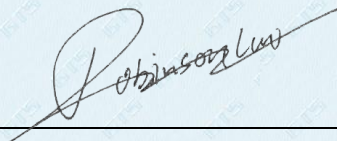


Date:

May 28, 2021

Project Engineer

Check By:



Date:

May 28, 2021

Reviewer

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4 Test Summary

Test Item	Section	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
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)	Pass
Dwell Time	15.247 (a)(1)	Pass
Pseudorandom Frequency Hopping Sequence	15.247(b)(4)	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.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
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:	2.4GHz 4 CHANNEL RECEIVER
Model No.:	INr4-GYB
Serial No.:	N/A
Hardware version:	INR4-GYB-V1.3
Software version:	INR4-GYB V1.0.3
Test sample(s) ID:	GTS202105000148-1
Sample(s) Status	Engineer sample
Operation Frequency:	2402.6MHz~2479.4MHz
Channel numbers:	43
Modulation technology:	GMSK
Antenna Type:	Integral Antenna
Antenna gain:	1dBi
Power supply:	DC 3.5-9V

Remark: The system works in the frequency range of 2402.6MHz to 2479.4MHz. This band has been divided to 43 independent channels. Each radio system uses 32 different channels; the minimum channel separation is ≥ 2.3 MHz. By using various switch-on times, hopping scheme and channel frequencies, the system can guarantee a jamming free radio transmission. The channel list is below.

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402.6	12	2422.4	23	2442.2	34	2463.2
2	2404.4	13	2424.2	24	2445.2	35	2465.0
3	2406.2	14	2426.0	25	2447.0	36	2466.8
4	2408.0	15	2427.8	26	2448.8	37	2468.6
5	2409.8	16	2429.6	27	2450.6	38	2470.4
6	2411.6	17	2431.4	28	2452.4	39	2472.2
7	2413.4	18	2433.2	29	2454.2	40	2474.0
8	2415.2	19	2435.0	30	2456.0	41	2475.8
9	2417.0	20	2436.8	31	2457.8	42	2477.6
10	2418.8	21	2438.6	32	2459.6	43	2479.4
11	2420.6	22	2440.4	33	2461.4		

The test frequencies are below:

Channel	Frequency
The lowest channel	2402.6MHz
The middle channel	2440.4MHz
The Highest channel	2479.4MHz

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting mode.
Remark: DC 3.5 to 9V all have been pretested, only worse case DC 9V is reported	

5.3 Test Facility

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

- **FCC —Registration No.: 381383**

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. Registration 381383.

- **IC —Registration No.: 9079A**

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 with Registration No.: 9079A

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.4 Test Location

All other tests were performed at:
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

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number
ShenZhen FLYSKY Technology Co.,Ltd	Remote control	F6S	N/A
MEILI	DC POWER SUPPLY	MCH-305A	011121168

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.
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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	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

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	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

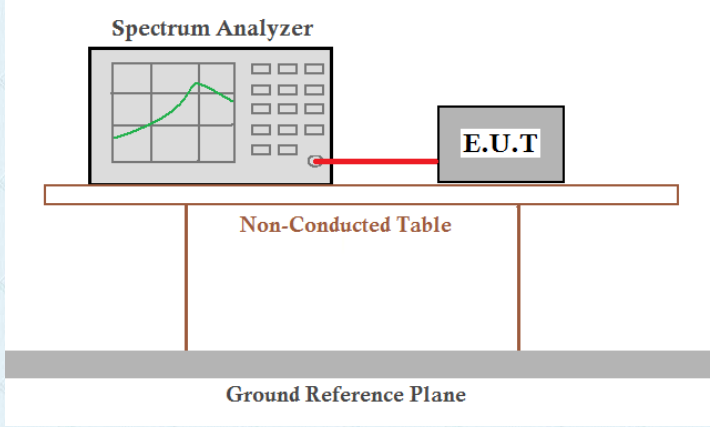
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: <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>	
15.247(c) (1)(i) requirement: <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>	
EUT Antenna:	
<p><i>The antenna is integral antenna, the best case gain of the antenna is 1dBi, reference to the appendix II for details.</i></p>	

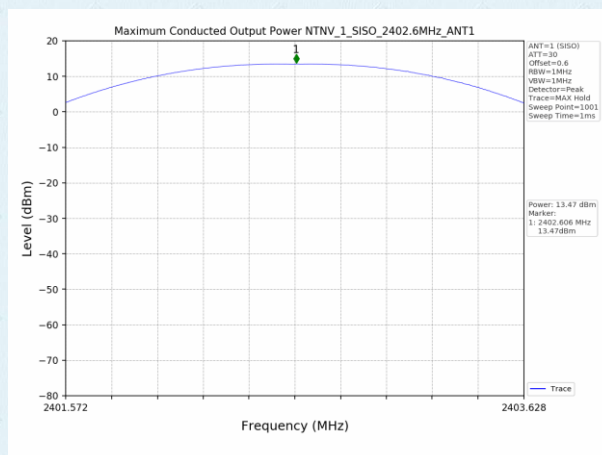
7.2 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(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 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 section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

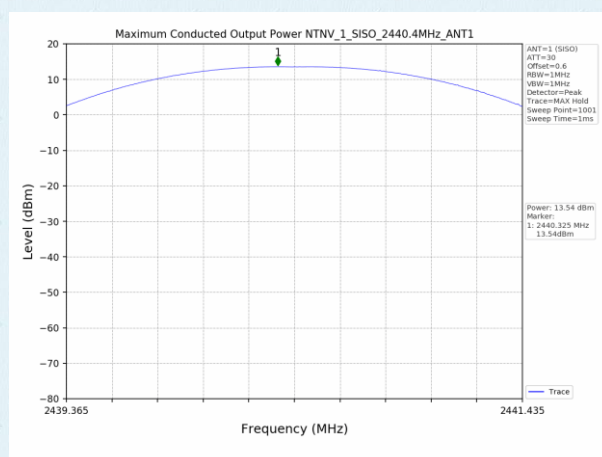
Measurement Data

Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	13.47	20.97	Pass
Middle	13.54		Pass
Highest	13.81		Pass

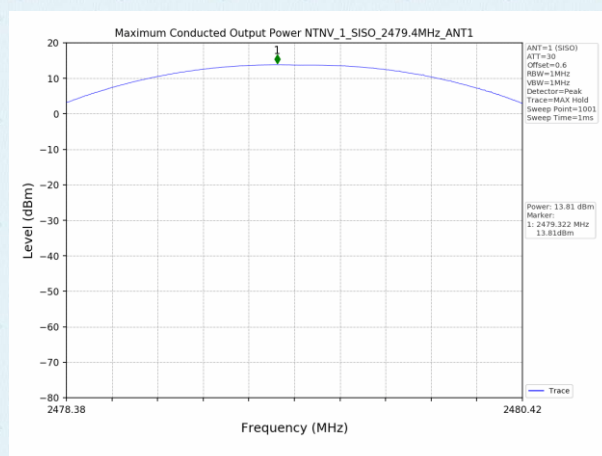
Test plot as follows:



Lowest channel

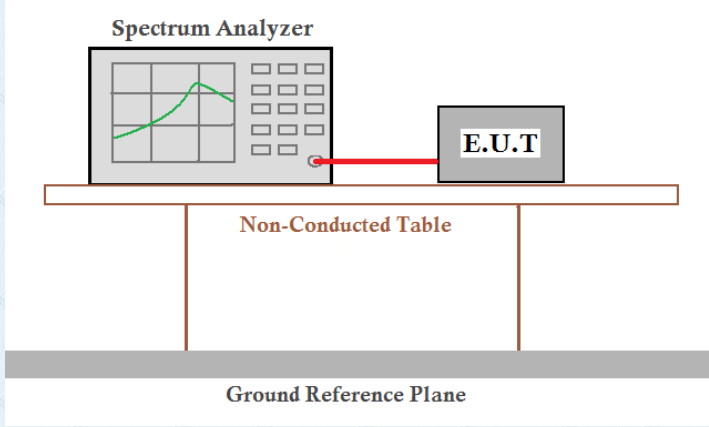


Middle channel



Highest channel

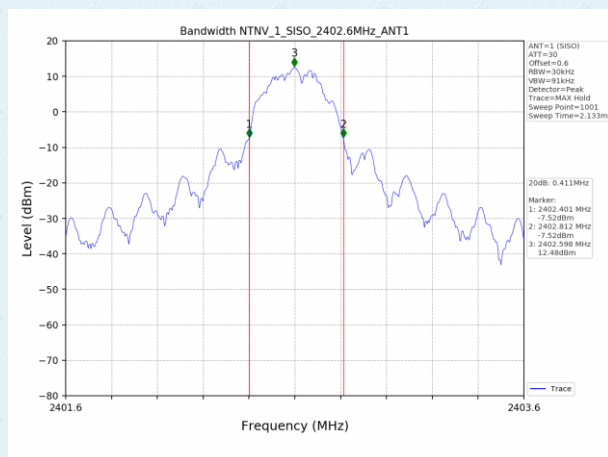
7.3 20dB Emission Bandwidth

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 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 section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

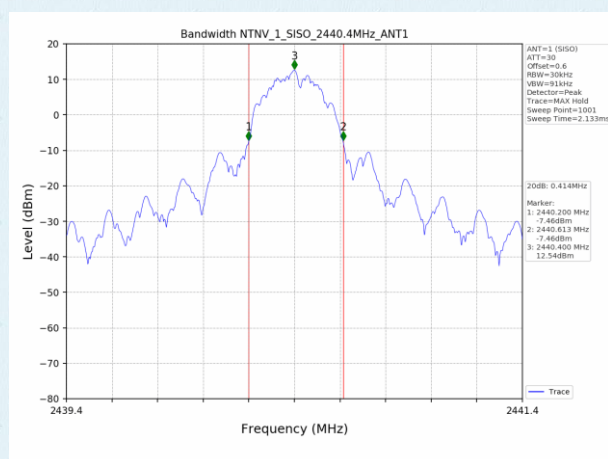
Measurement Data

Test channel	20dB Emission Bandwidth (MHz)	Result
Lowest	0.411	Pass
Middle	0.414	
Highest	0.408	

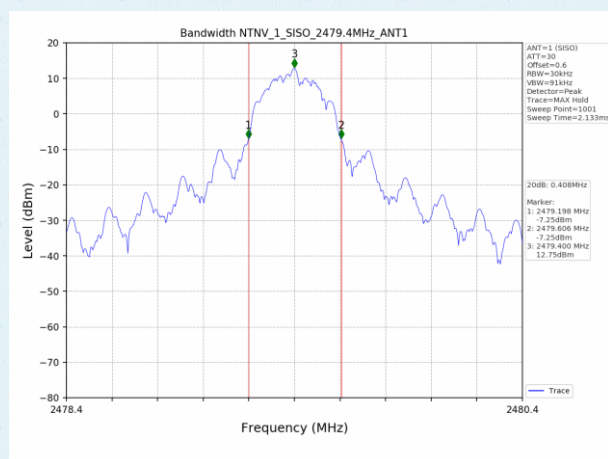
Test plot as follows:



Lowest channel

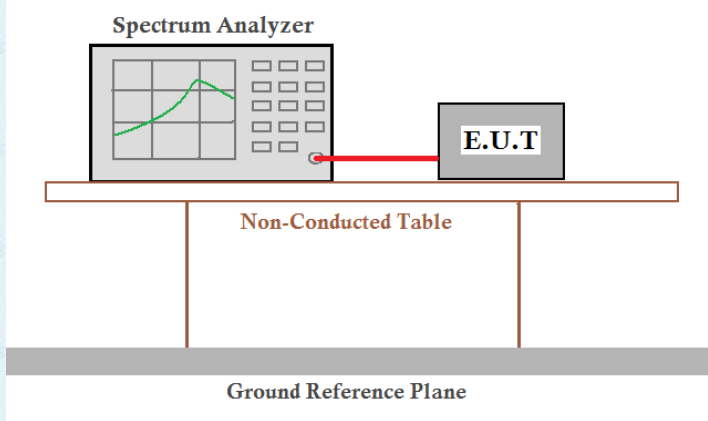


Middle channel



Highest channel

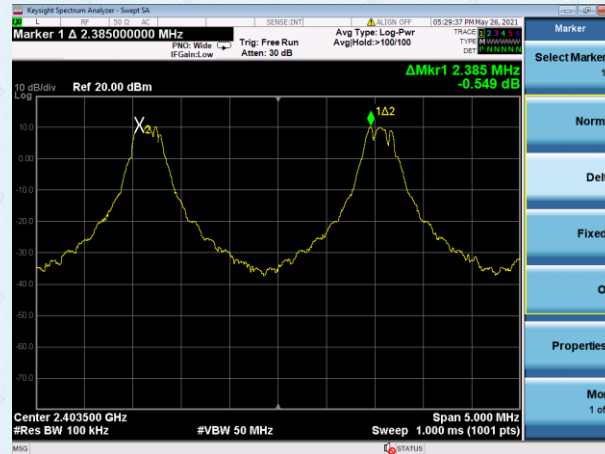
7.4 Carrier Frequencies Separation

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 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 section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

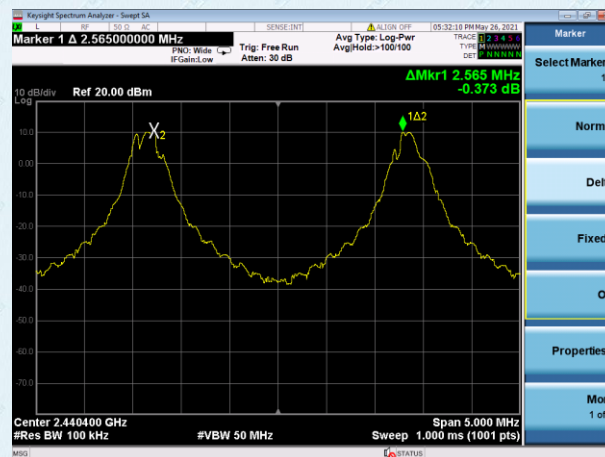
Measurement Data

Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	2385	274	Pass
Middle	2565	276	Pass
Highest	2405	272	Pass

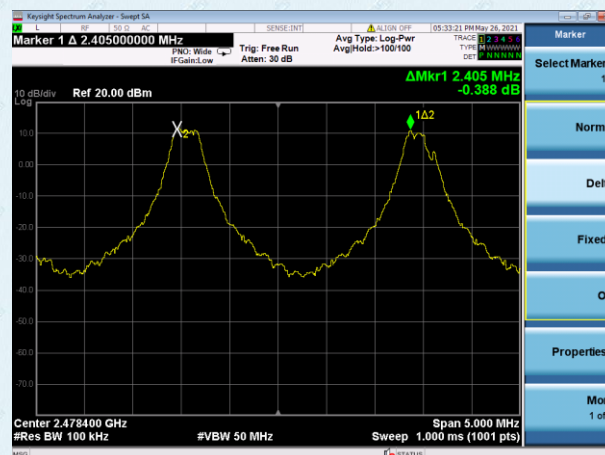
Test plot as follows:



Lowest channel

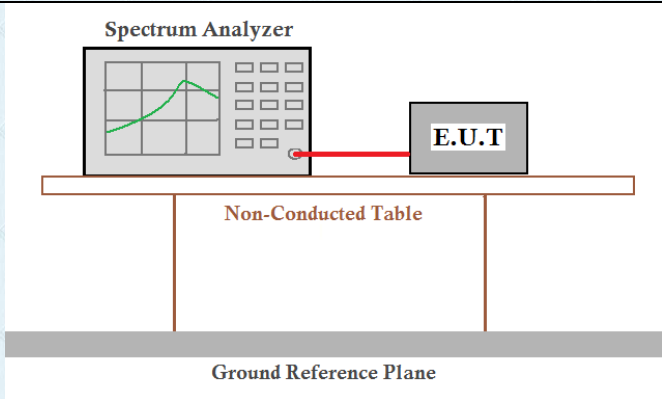


Middle channel



Highest channel

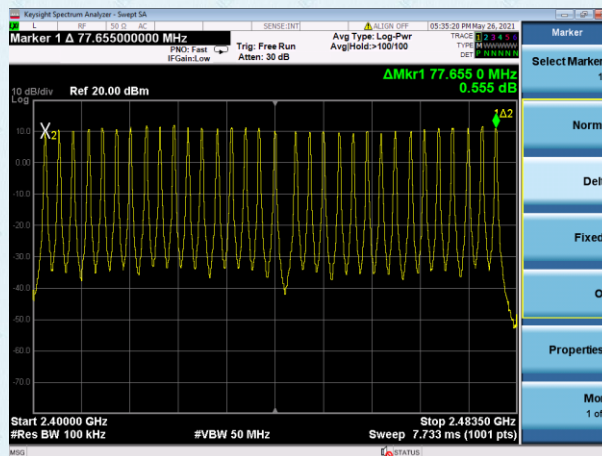
7.5 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
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 via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is 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

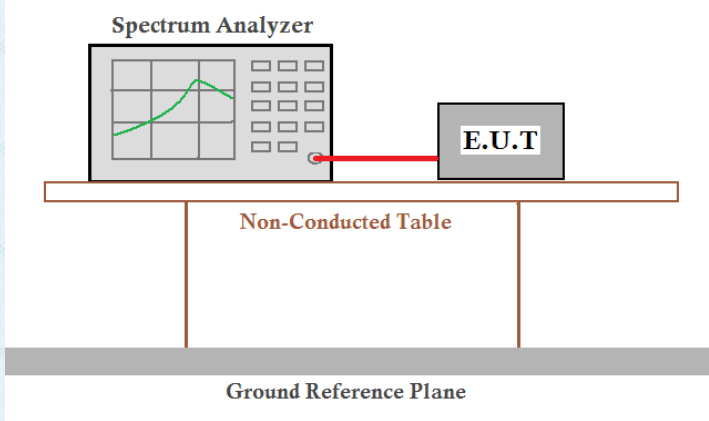
Measurement Data:

Hopping channel numbers	Limit	Result
32	15	Pass

Test plot as follows:



7.6 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Frequency(MHz)	Ton (ms)	Dwell time(ms)	Limit(ms)	Result
2402.6	2.421	92.97	400	Pass
2440.4	2.411	92.58	400	Pass
2479.4	2.440	93.70	400	Pass

The formula as below:

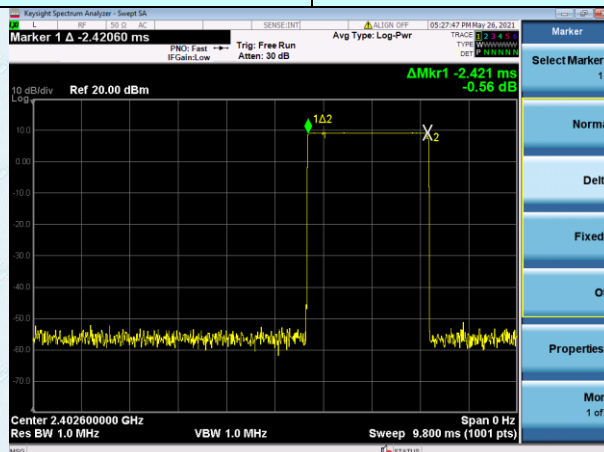
2402.6MHz: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=2.421ms*3*0.4*32=92.97ms

2440.4MHz: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=2.411ms*3*0.4*32=92.58ms

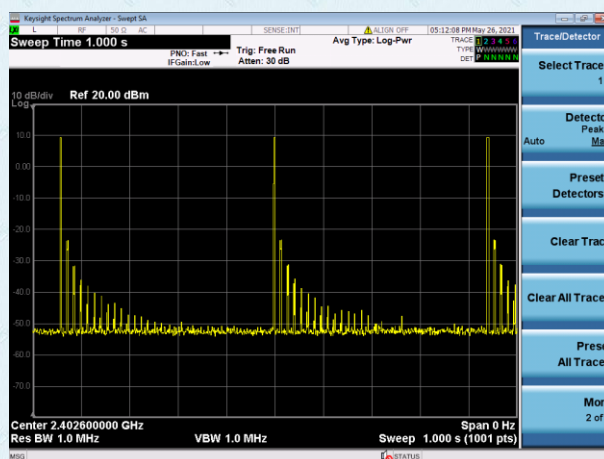
2479.4MHz: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=2.440ms*3*0.4*32=93.70ms

Test plot as follows:

Frequency:	2402.6MHz
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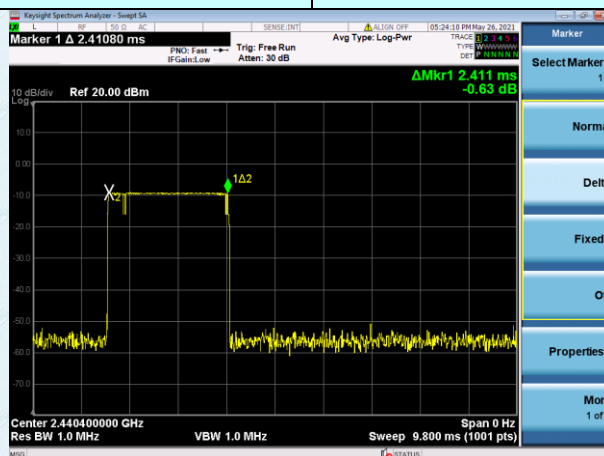
Ton



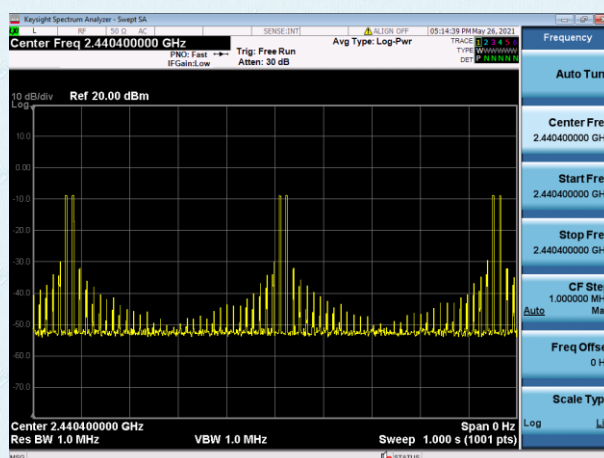
Ton times in 1s

Frequency:

2440.4MHz



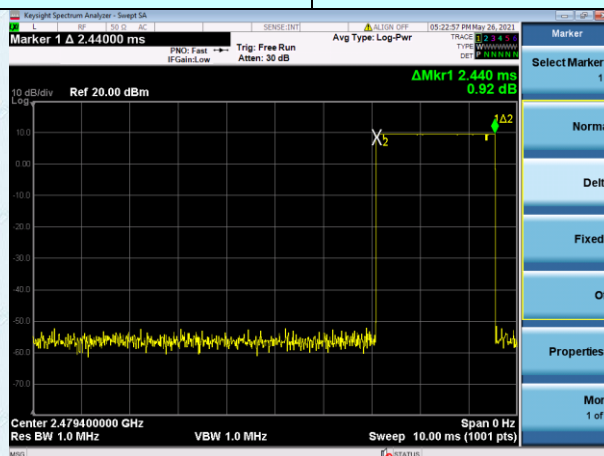
Ton



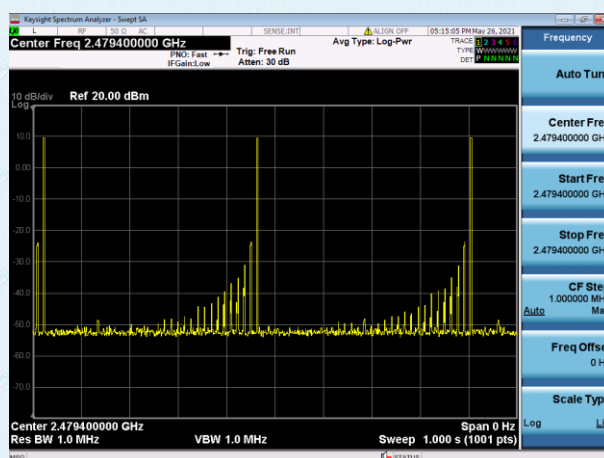
Ton times in 1s

Frequency:

2479.4MHz



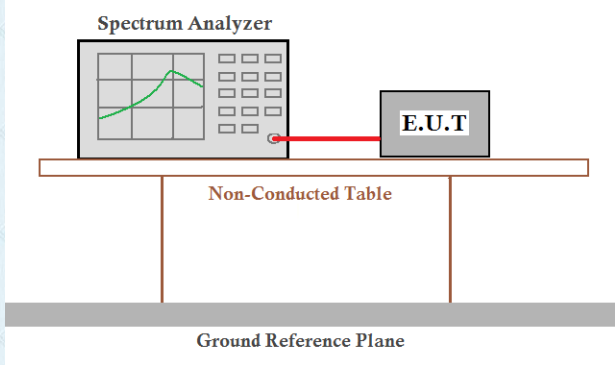
Ton



Ton times in 1s

7.7 Spurious Emission in Non-restricted & restricted Bands

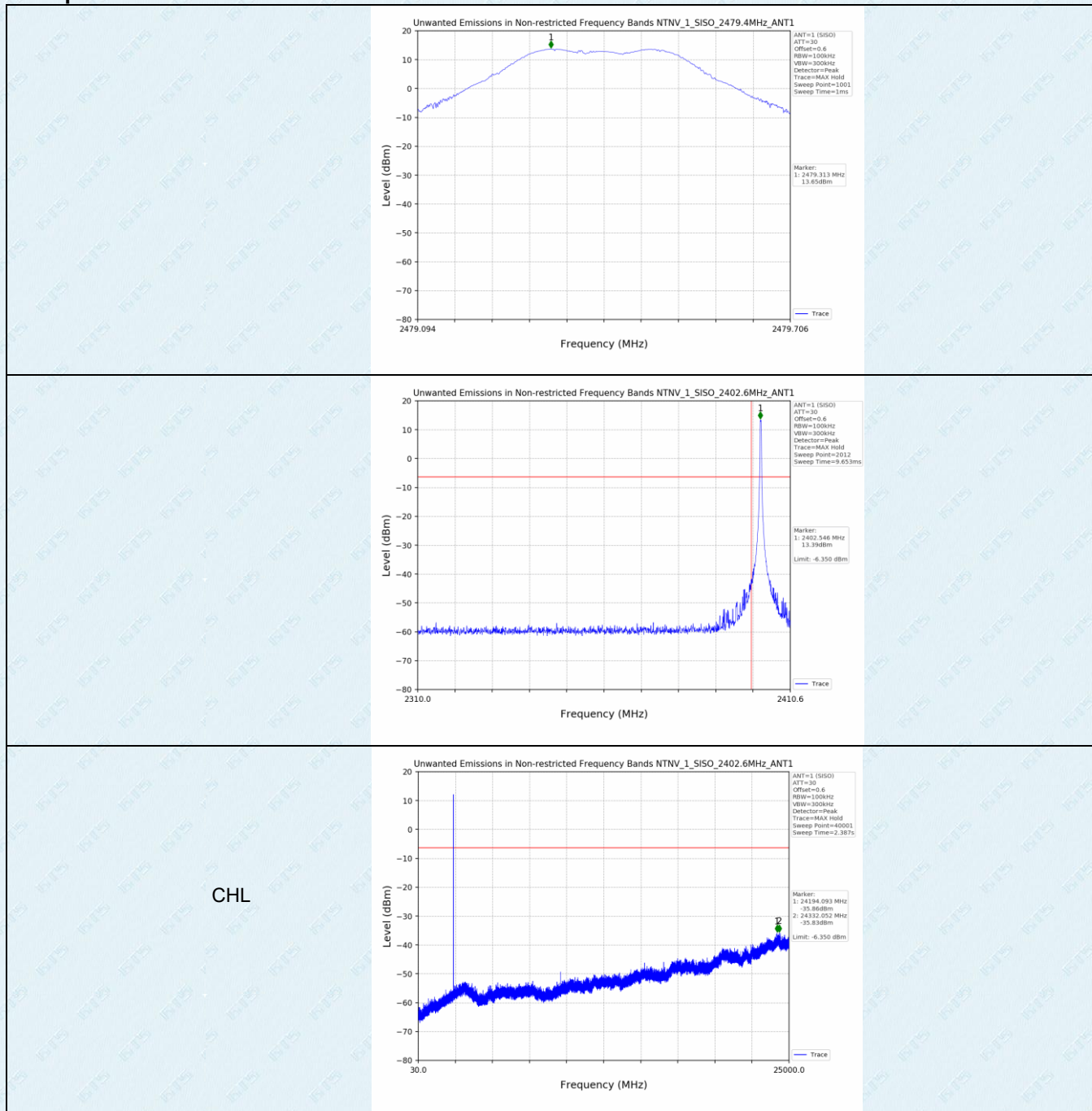
7.7.1 Conducted Emission Method

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:	
Test Instruments:	Refer to section6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

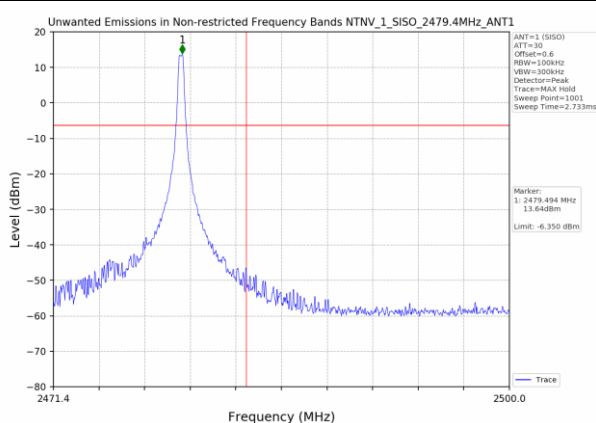
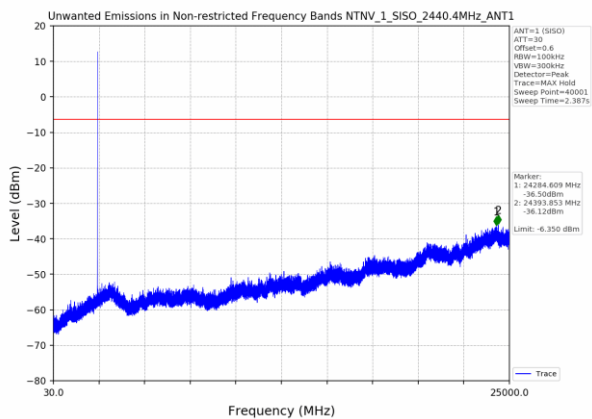
Measurement data:

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
1	2402.6	SISO	1	Refer to test graph	-6.35	PASS
	2440.4	SISO	1	Refer to test graph	-6.35	PASS
	2479.4	SISO	1	Refer to test graph	-6.35	PASS
	Hopping	SISO	1	Refer to test graph	-6.35	PASS

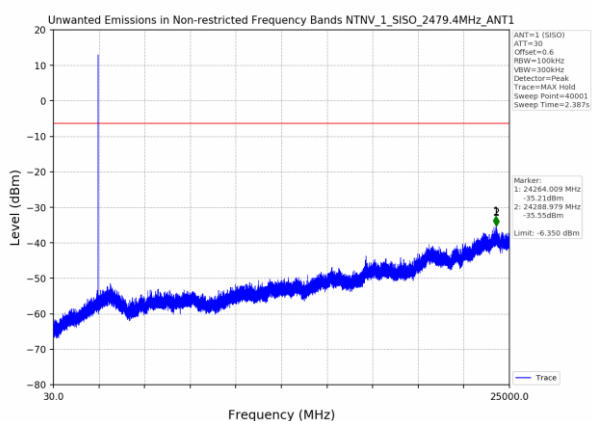
Test plot as follows:

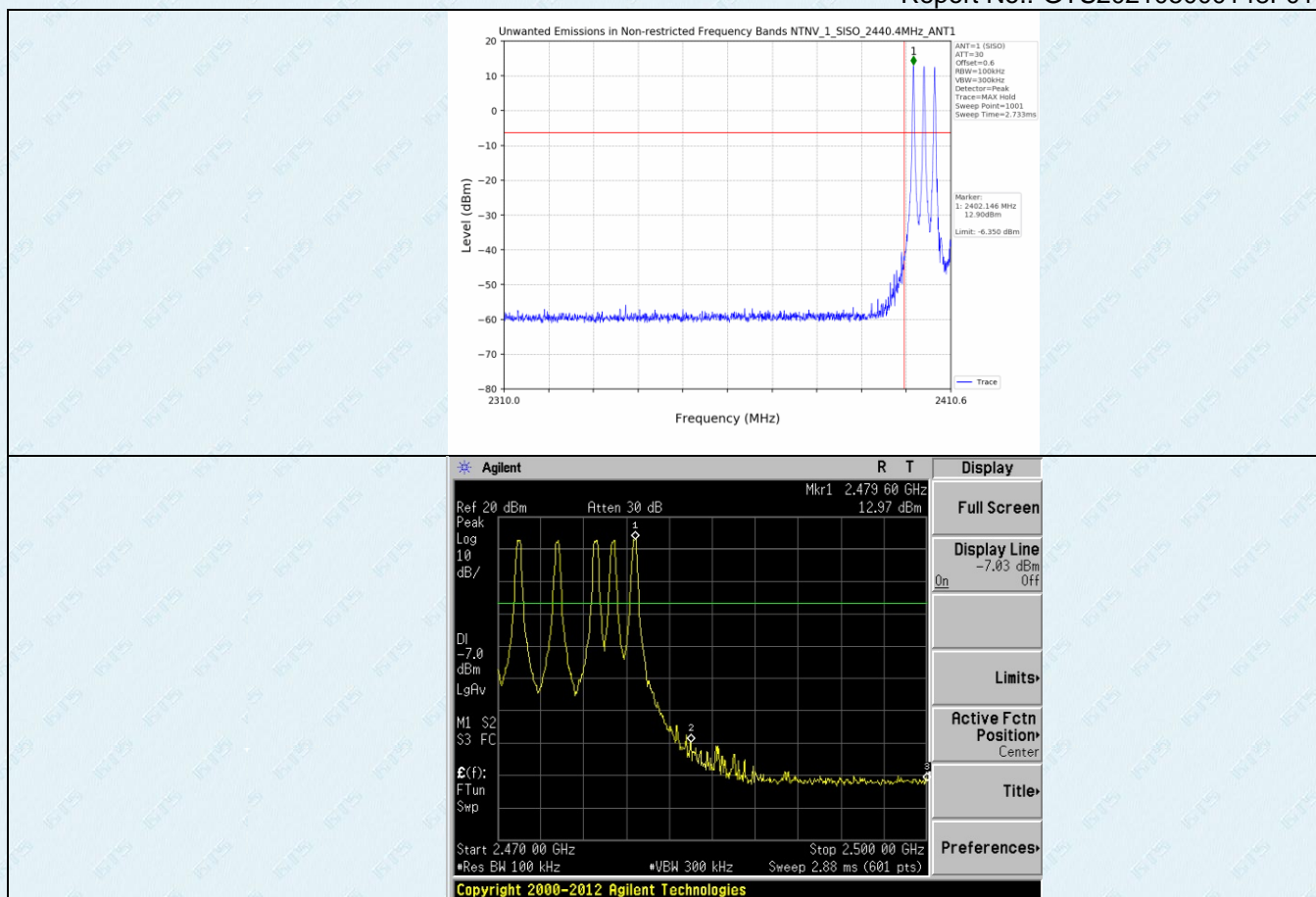


CHM

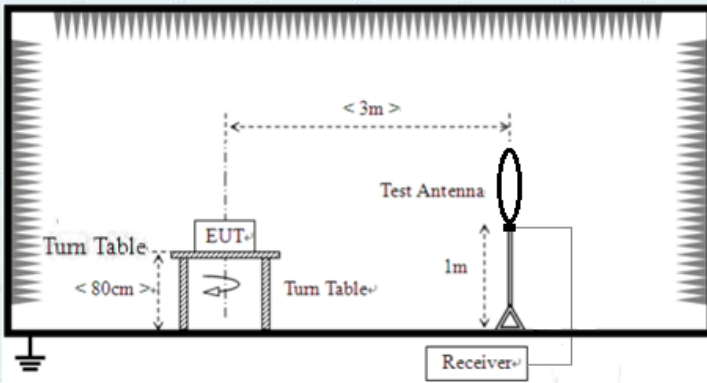


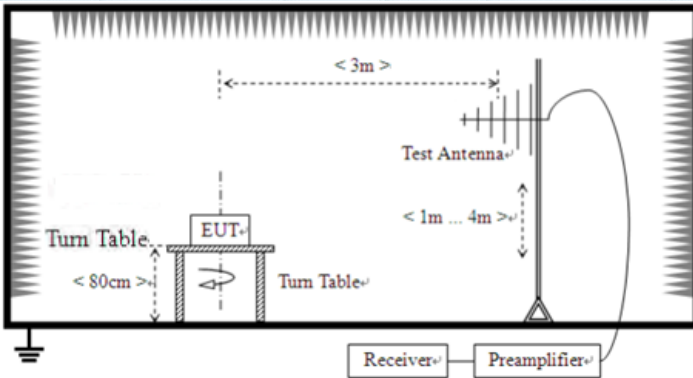
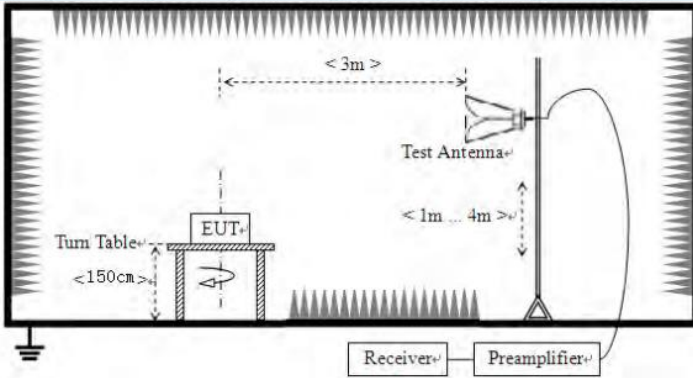
CHH





7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
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)	PK,AV,QP	300m
	0.490MHz-1.705MHz		24000/F(KHz)	QP	30m
	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> 
Test Procedure:	<ol style="list-style-type: none">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.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.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.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.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.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.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.2 for details
Temp. / Hum.	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar

Test results:

Pass

Remark:

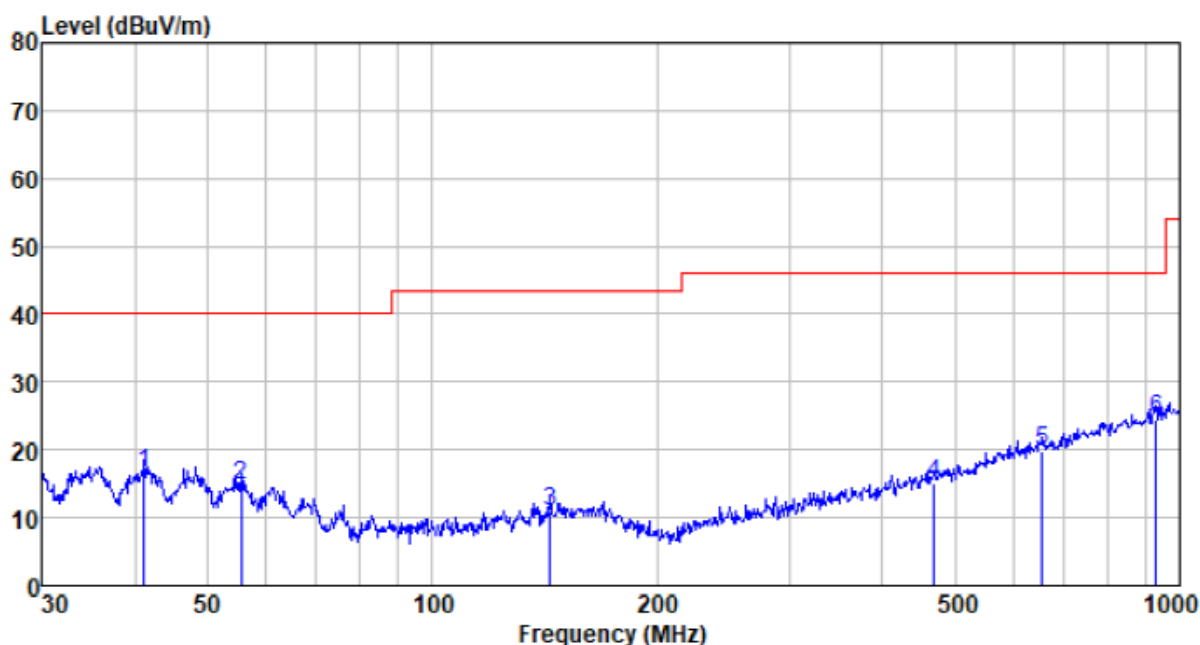
1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

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.

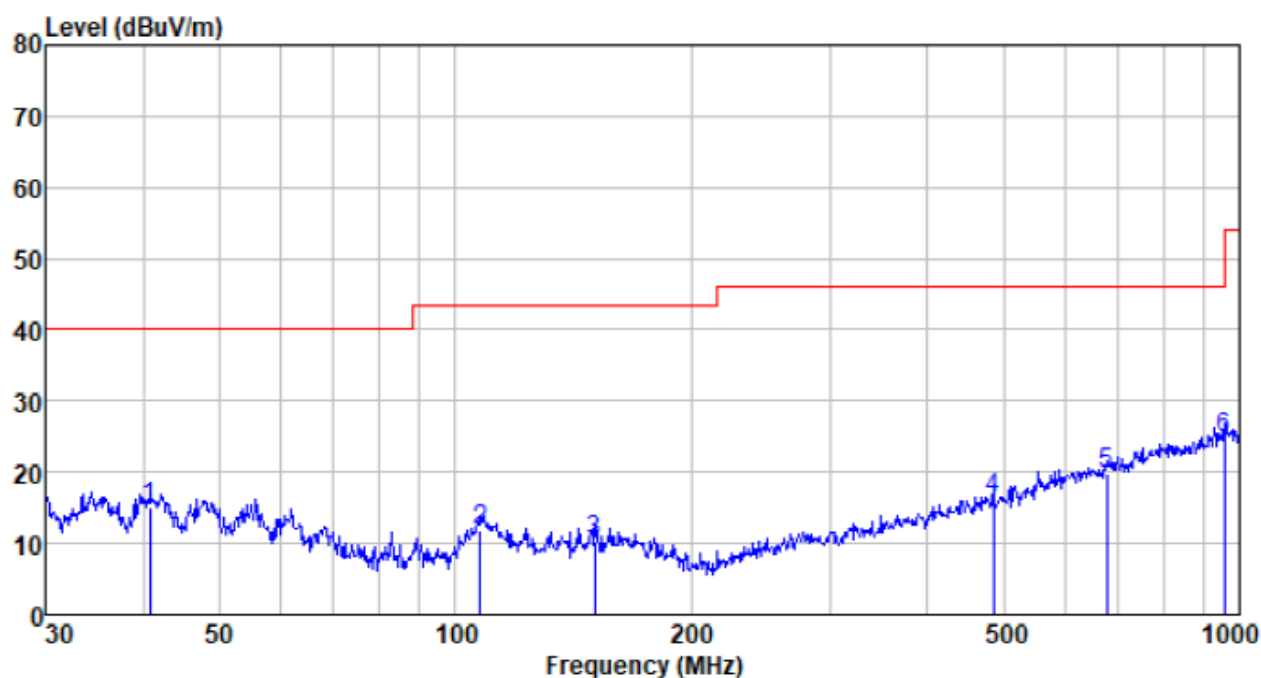
■ 30MHz ~ 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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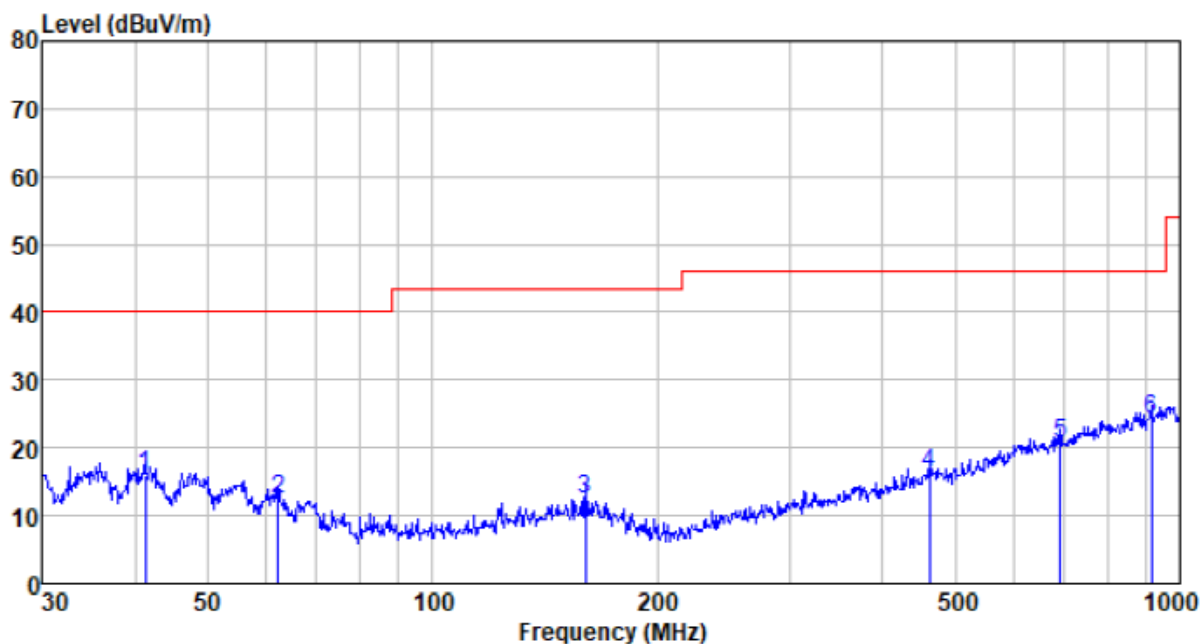
Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
41.132	38.40	13.19	0.67	35.73	16.53	40.00	-23.47	QP
55.415	37.59	12.53	0.82	36.26	14.68	40.00	-25.32	QP
143.830	34.16	12.32	1.53	37.04	10.97	43.50	-32.53	QP
468.876	33.02	16.24	3.18	37.51	14.93	46.00	-31.07	QP
654.232	33.45	19.96	3.93	37.59	19.75	46.00	-26.25	QP
929.008	33.51	23.55	4.96	37.57	24.45	46.00	-21.55	QP

Test channel:	Lowest	Polarization:	Vertical
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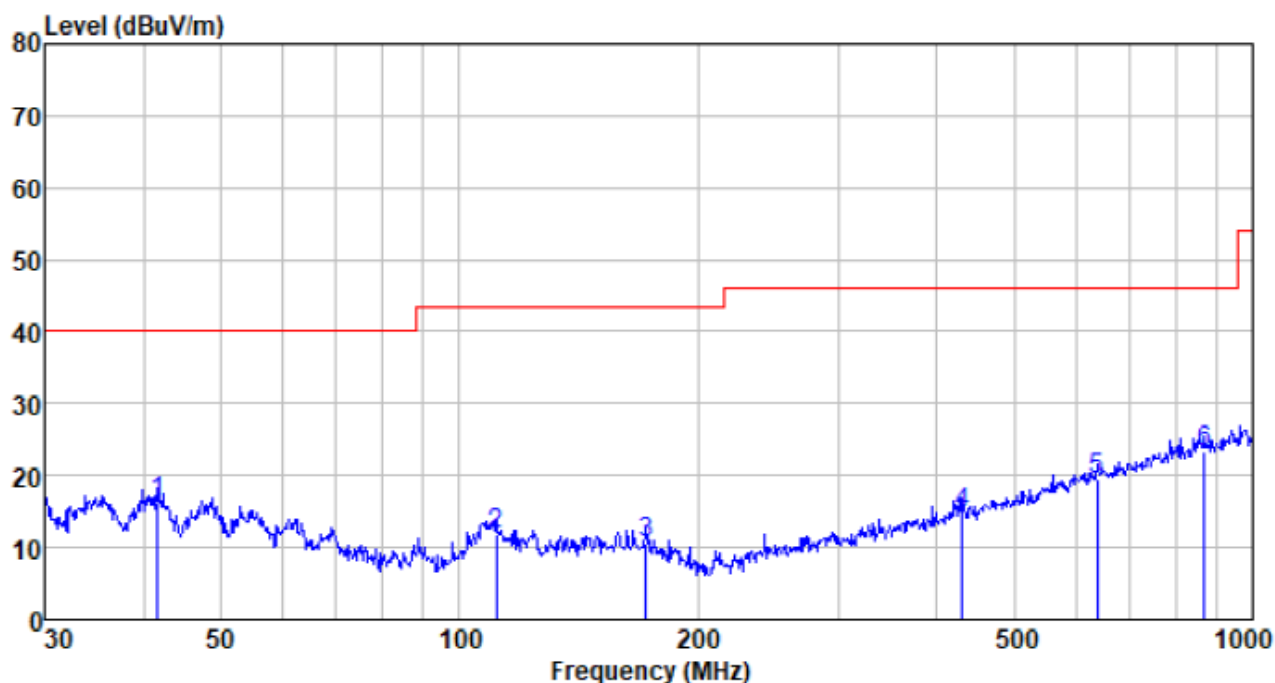
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
40.702	36.81	13.22	0.67	35.70	15.00	40.00	-25.00	QP
107.510	37.70	9.76	1.26	36.78	11.94	43.50	-31.56	QP
150.538	32.97	12.81	1.57	37.08	10.27	43.50	-33.23	QP
485.609	34.15	16.44	3.24	37.51	16.32	46.00	-29.68	QP
677.580	33.13	20.14	4.00	37.61	19.66	46.00	-26.34	QP
955.438	33.42	23.98	5.06	37.55	24.91	46.00	-21.09	QP

Test channel:	Middle	Polarization:	Horizontal
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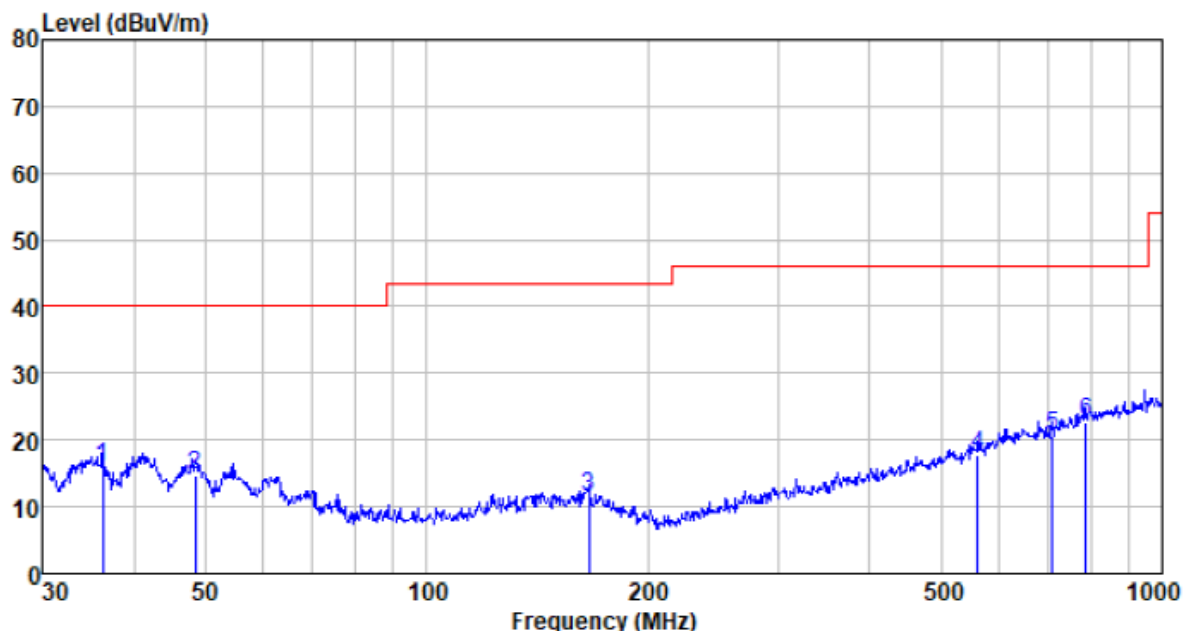
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
41.277	37.77	13.18	0.68	35.74	15.89	40.00	-24.11	QP
62.213	35.83	11.93	0.88	36.35	12.29	40.00	-27.71	QP
160.346	35.13	12.75	1.63	37.14	12.37	43.50	-31.13	QP
462.346	34.43	16.16	3.14	37.51	16.22	46.00	-29.78	QP
691.987	34.03	20.30	4.06	37.62	20.77	46.00	-25.23	QP
916.069	33.71	23.28	4.91	37.58	24.32	46.00	-21.68	QP

Test channel:	Middle	Polarization:	Vertical
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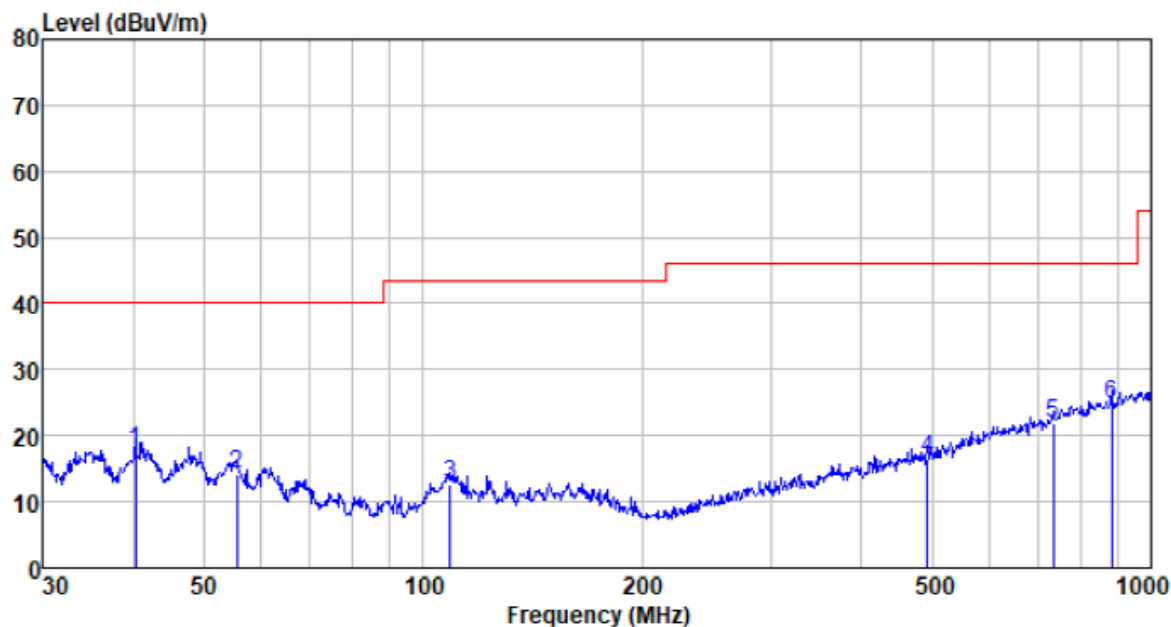
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
41.713	38.21	13.16	0.68	35.76	16.29	40.00	-23.71	QP
111.347	37.18	10.12	1.29	36.81	11.78	43.50	-31.72	QP
171.995	34.12	12.15	1.70	37.20	10.77	43.50	-32.73	QP
431.032	33.80	15.50	3.00	37.52	14.78	46.00	-31.22	QP
636.134	33.38	19.81	3.86	37.57	19.48	46.00	-26.52	QP
869.130	33.60	22.73	4.74	37.61	23.46	46.00	-22.54	QP

Test channel:	Highest	Polarization:	Horizontal
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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
36.254	38.13	12.69	0.62	35.44	16.00	40.00	-24.00	QP
48.502	37.13	13.02	0.76	36.11	14.80	40.00	-25.20	QP
166.068	34.35	12.57	1.66	37.17	11.41	43.50	-32.09	QP
560.693	33.51	18.22	3.56	37.53	17.76	46.00	-28.24	QP
709.182	33.60	20.60	4.12	37.63	20.69	46.00	-25.31	QP
787.851	33.89	22.07	4.41	37.62	22.75	46.00	-23.25	QP

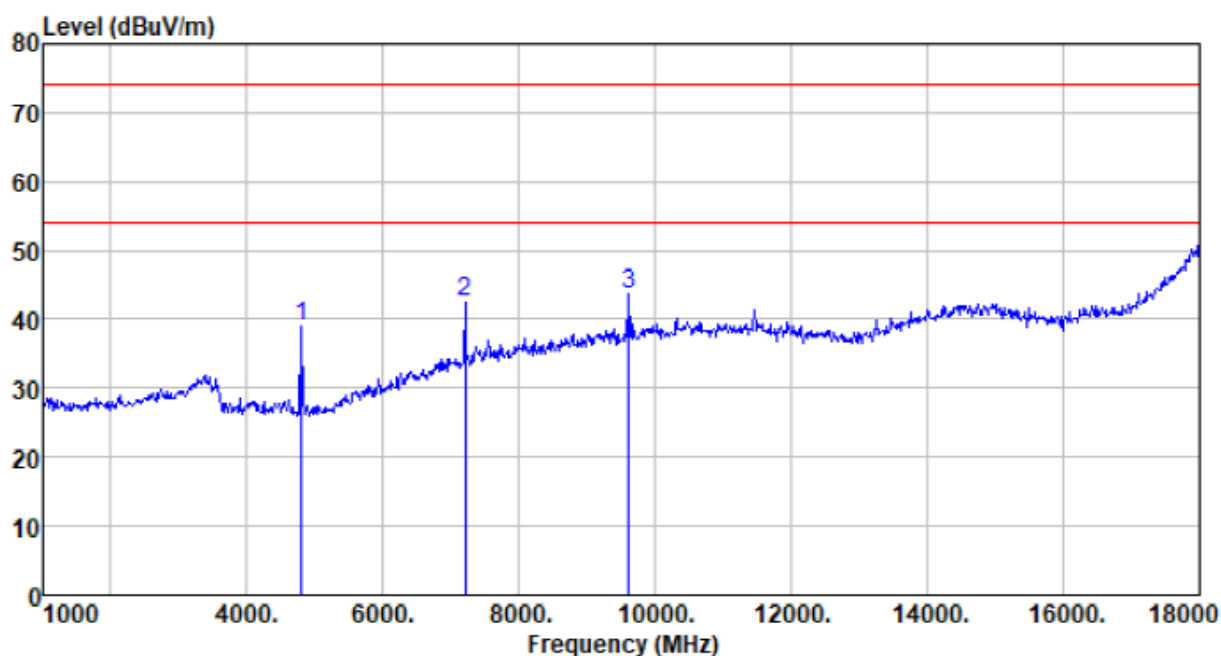
Test channel:	Highest	Polarization:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
40.276	39.35	13.24	0.66	35.68	17.57	40.00	-22.43	QP
55.415	37.07	12.53	0.82	36.26	14.16	40.00	-25.84	QP
109.029	38.21	9.90	1.27	36.80	12.58	43.50	-30.92	QP
492.469	34.26	16.53	3.27	37.51	16.55	46.00	-29.45	QP
734.491	33.92	21.19	4.22	37.63	21.70	46.00	-24.30	QP
881.407	34.83	22.82	4.79	37.60	24.84	46.00	-21.16	QP

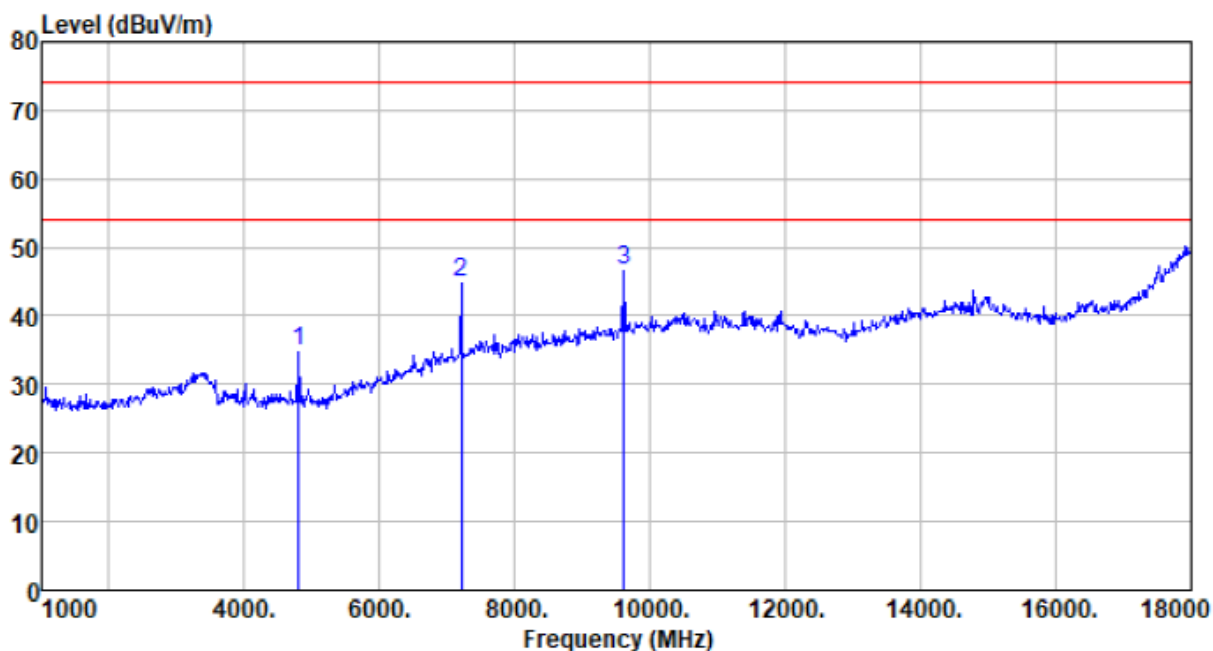
- Unwanted Emissions in Restricted Frequency Bands
- Above 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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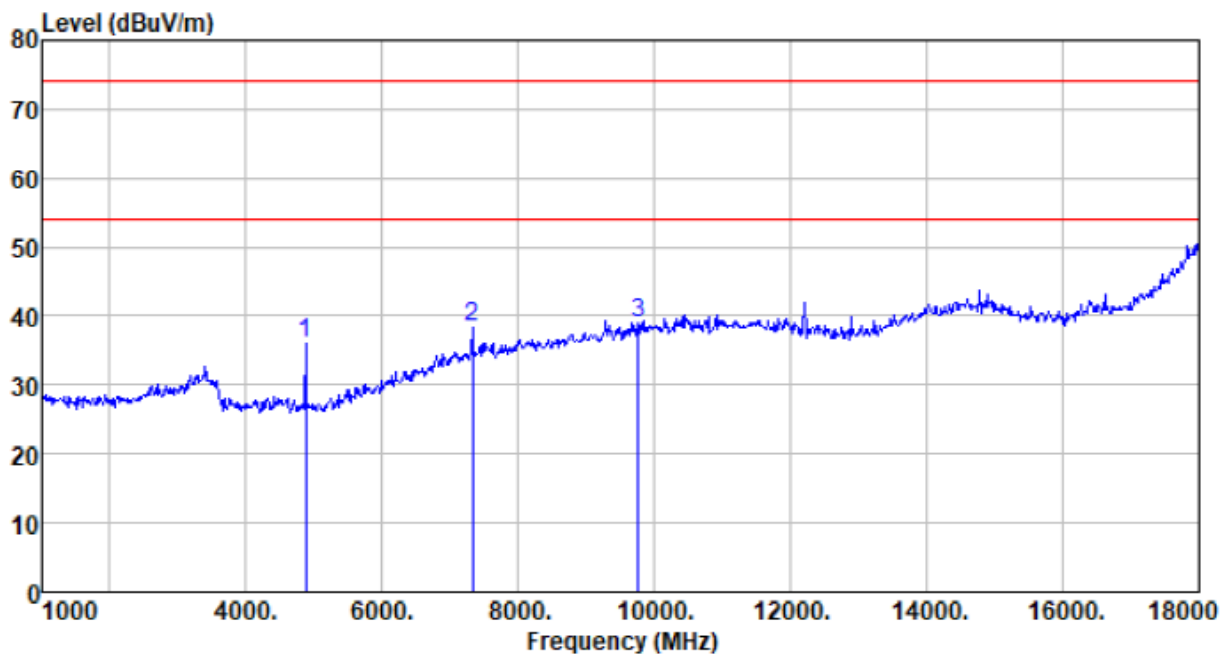
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4805.200	40.89	31.20	4.61	37.73	38.97	74.00	-35.03	Peak
7207.800	35.36	36.16	6.48	35.63	42.37	74.00	-31.63	Peak
9610.400	32.73	37.93	7.97	34.94	43.69	74.00	-30.31	Peak

Test channel:	Lowest	Polarization:	Vertical
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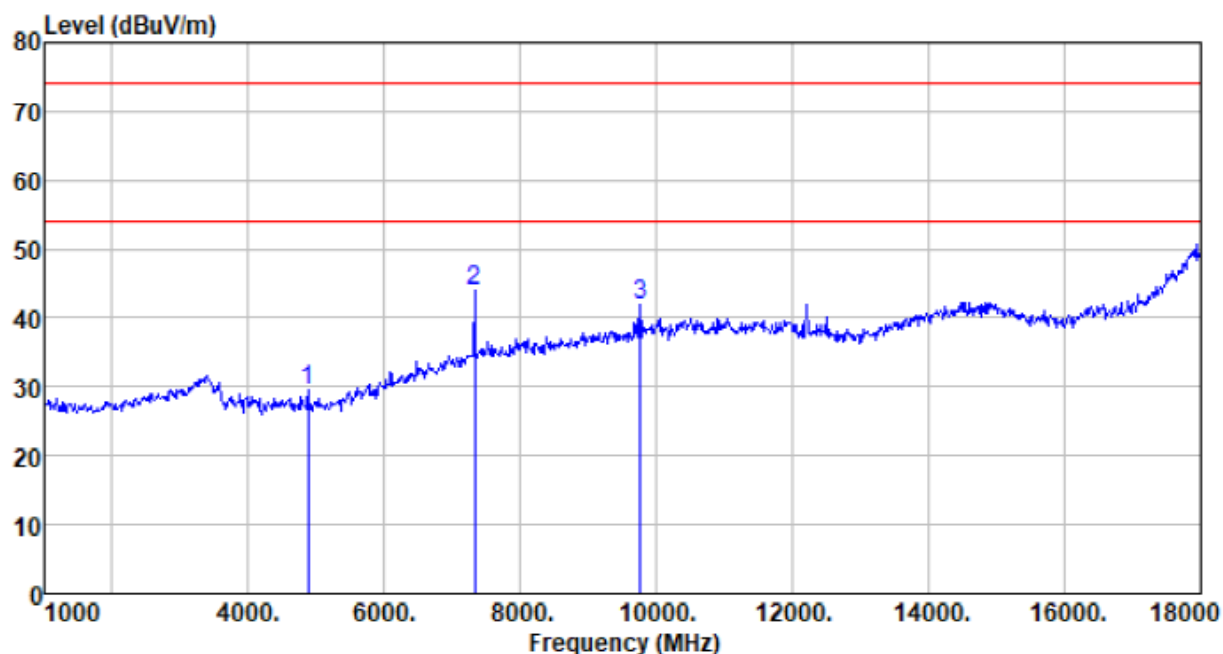
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4805.200	36.64	31.20	4.61	37.73	34.72	74.00	-39.28	Peak
7207.800	37.77	36.16	6.48	35.63	44.78	74.00	-29.22	Peak
9610.400	35.58	37.93	7.97	34.94	46.54	74.00	-27.46	Peak

Test channel:	Middle	Polarization:	Horizontal
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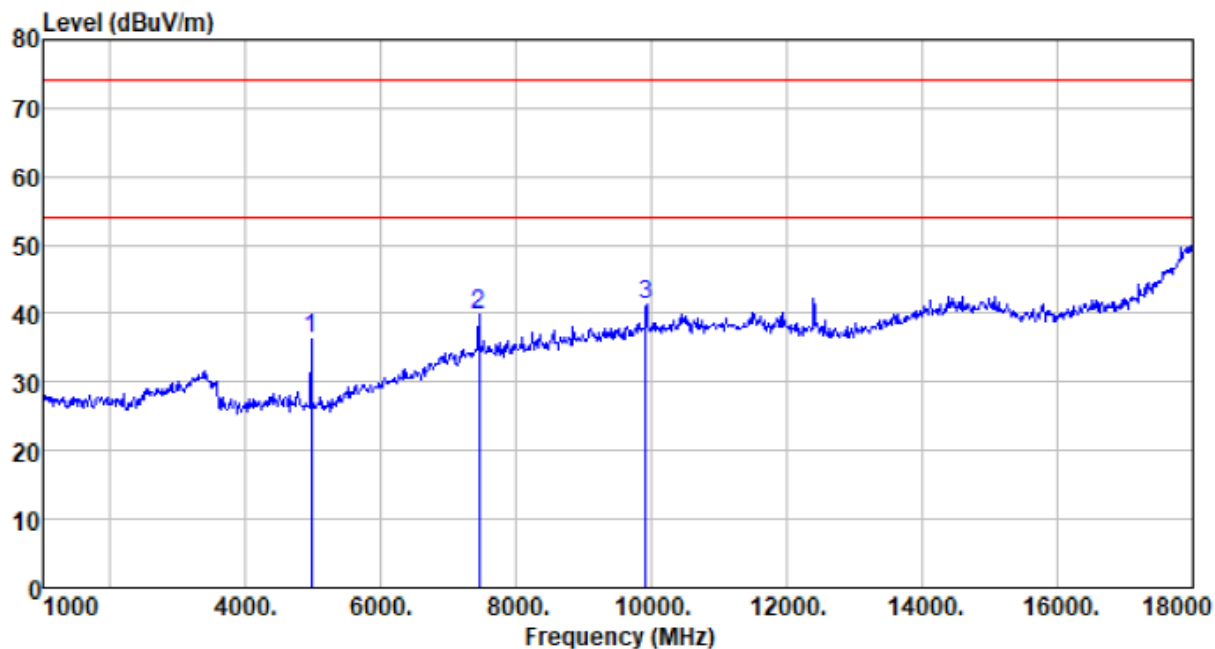
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.800	37.81	31.31	4.69	37.75	36.06	74.00	-37.94	Peak
7321.200	30.91	36.43	6.63	35.60	38.37	74.00	-35.63	Peak
9761.600	27.99	38.10	8.03	35.03	39.09	74.00	-34.91	Peak

Test channel:	Middle	Polarization:	Vertical
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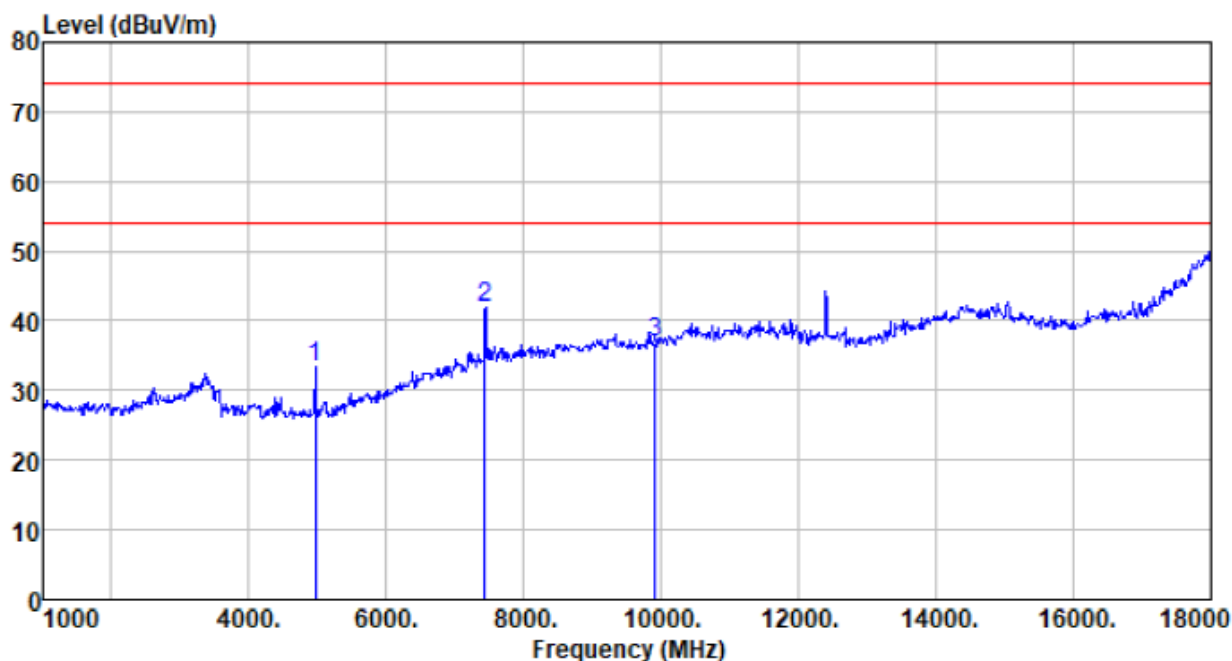
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4880.800	31.37	31.31	4.69	37.75	29.62	74.00	-44.38	Peak
7321.200	36.43	36.43	6.63	35.60	43.89	74.00	-30.11	Peak
9761.600	30.69	38.10	8.03	35.03	41.79	74.00	-32.21	Peak

Test channel:	Highest	Polarization:	Horizontal
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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
4958.800	37.97	31.44	4.79	37.78	36.42	74.00	-37.58	Peak
7438.800	32.00	36.66	6.77	35.56	39.87	74.00	-34.13	Peak
9917.600	30.17	38.30	8.09	35.14	41.42	74.00	-32.58	Peak

Test channel:	Highest	Polarization:	Vertical
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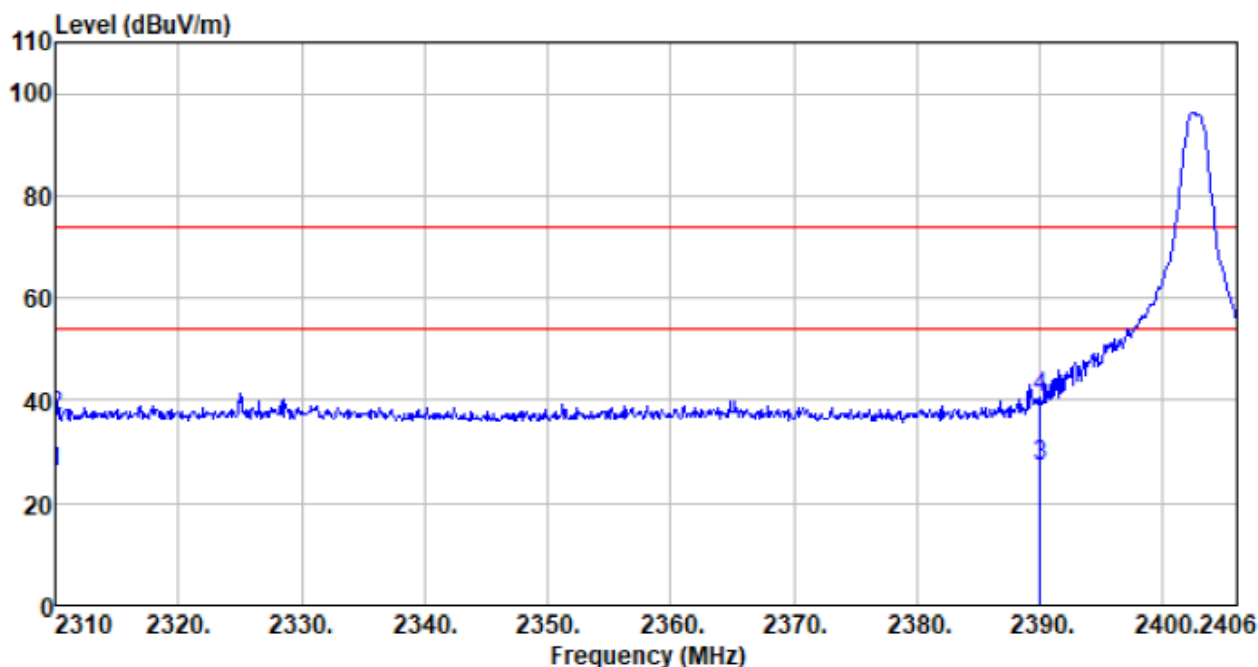
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4958.800	35.00	31.44	4.79	37.78	33.45	74.00	-40.55	Peak
7438.200	34.01	36.66	6.77	35.56	41.88	74.00	-32.12	Peak
9917.600	25.75	38.30	8.09	35.14	37.00	74.00	-37.00	Peak

Remark:

1. $Final\ Level = Receiver\ Read\ level + Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
2. “*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

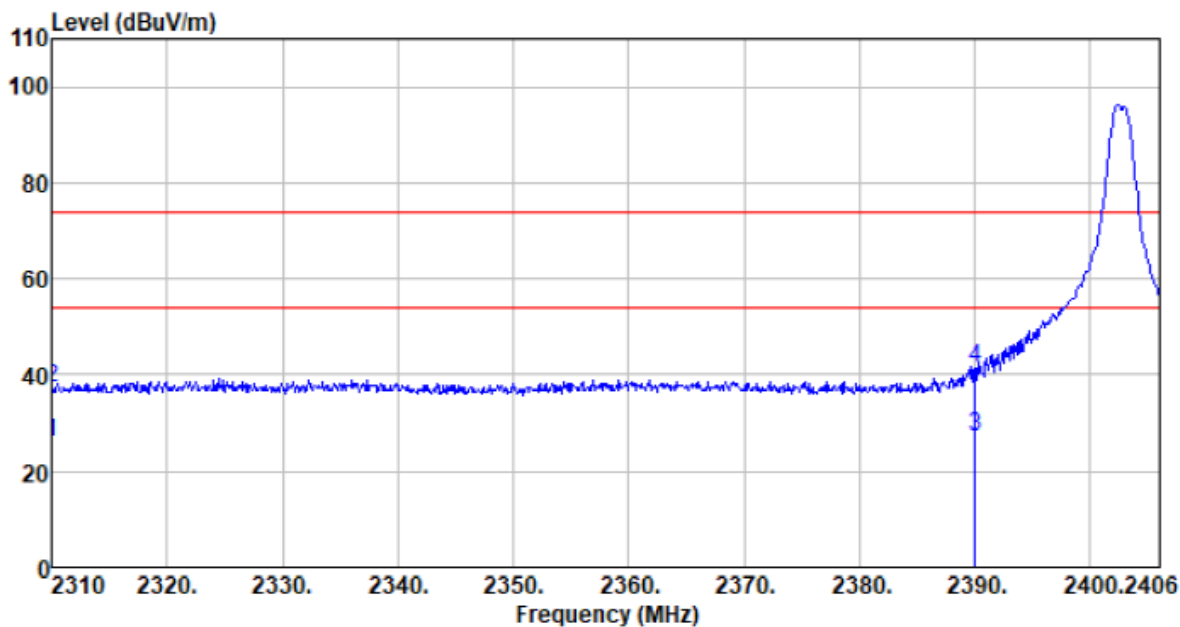
Unwanted Emissions in Non-restricted Frequency Bands

Test channel:	Lowest	Polarization:	Horizontal
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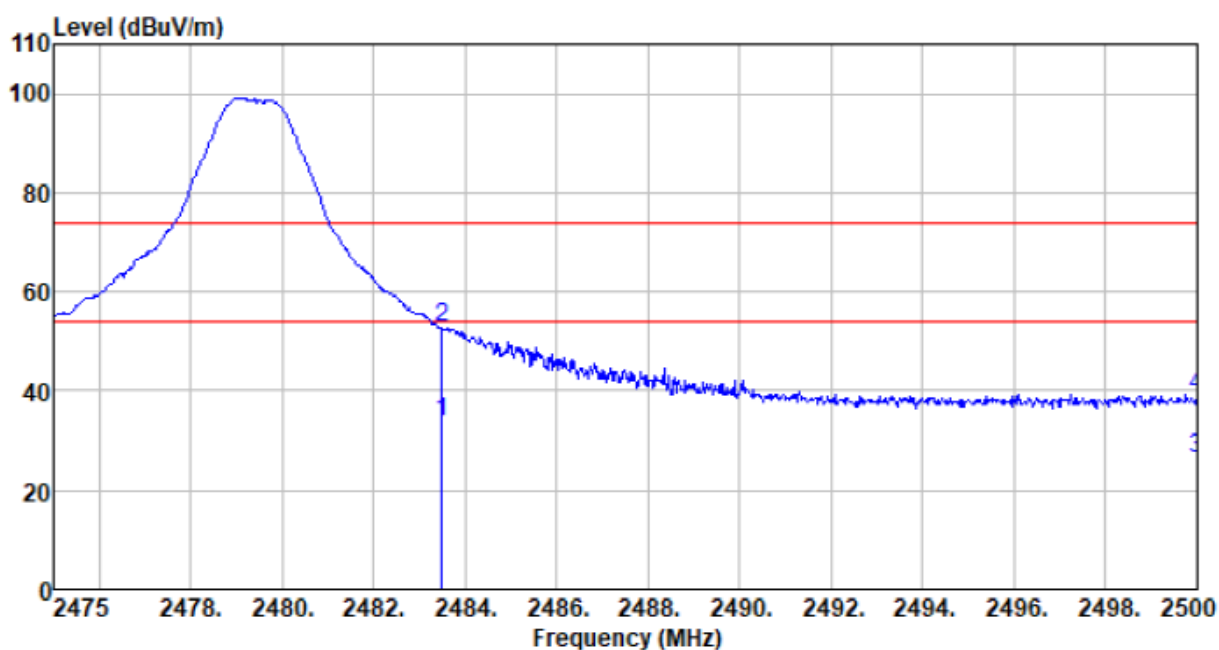
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	32.93	27.14	2.81	36.79	26.09	54.00	-27.91	Average
2310.000	43.66	27.14	2.81	36.79	36.82	74.00	-37.18	Peak
2390.000	33.60	27.37	2.91	36.85	27.03	54.00	-26.97	Average
2390.000	47.25	27.37	2.91	36.85	40.68	74.00	-33.32	Peak

Test channel:	Lowest	Polarization:	Vertical
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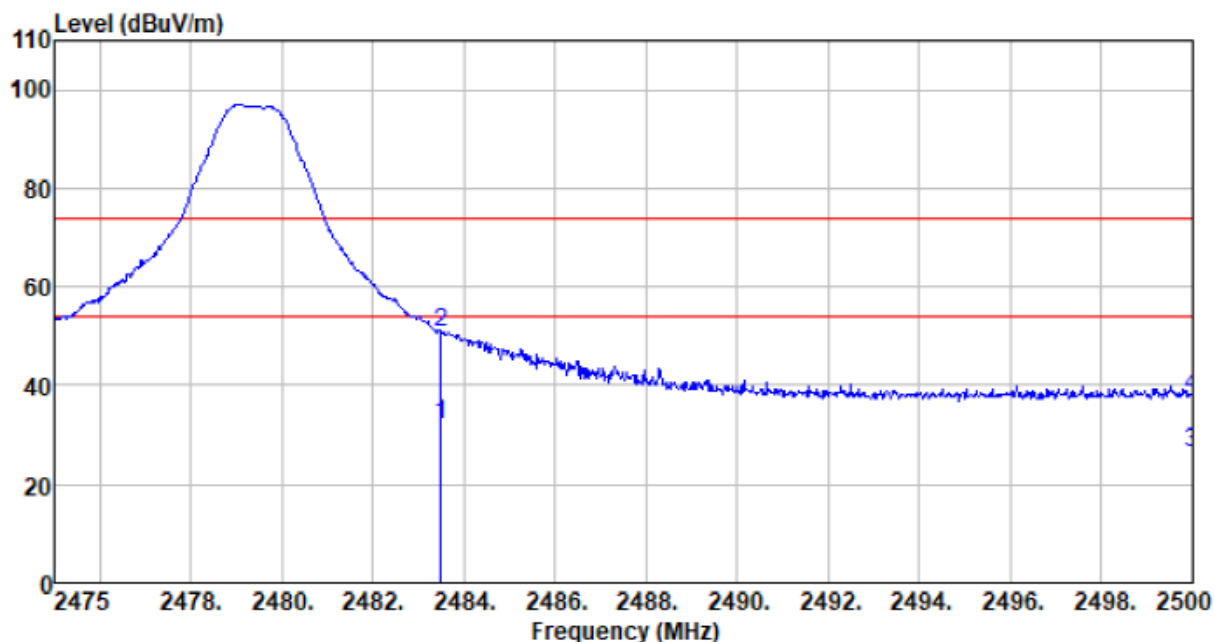
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	32.98	27.14	2.81	36.79	26.14	54.00	-27.86	Average
2310.000	44.00	27.14	2.81	36.79	37.16	74.00	-36.84	Peak
2390.000	33.92	27.37	2.91	36.85	27.35	54.00	-26.65	Average
2390.000	48.13	27.37	2.91	36.85	41.56	74.00	-32.44	Peak

Test channel:	Highest	Polarization:	Horizontal
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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	39.91	27.66	2.99	36.93	33.63	54.00	-20.37	Average
2483.500	58.92	27.66	2.99	36.93	52.64	74.00	-21.36	Peak
2500.000	32.72	27.70	3.01	36.94	26.49	54.00	-27.51	Average
2500.000	45.06	27.70	3.01	36.94	38.83	74.00	-35.17	Peak

Test channel:	Highest	Polarization:	Vertical
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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	38.53	27.66	2.99	36.93	32.25	54.00	-21.75	Average
2483.500	56.83	27.66	2.99	36.93	50.55	74.00	-23.45	Peak
2500.000	32.71	27.70	3.01	36.94	26.48	54.00	-27.52	Average
2500.000	44.11	27.70	3.01	36.94	37.88	74.00	-36.12	Peak

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.

8 Test Setup Photo

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

9 EUT Constructional Details

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

---End---