

TEST REPORT

Applicant: QIJUN TOYS INDUSTRY CO.,LIMITED

Address of Applicant: NO.9 Of Huanxi Road West, Shangdai Industrial Estate,
Chenghua Stree,Chenghai Area, Shantou City, Guangdong
Province, China

Manufacturer: QIJUN TOYS INDUSTRY CO.,LIMITED

**Address of
Manufacturer:** NO.9 Of Huanxi Road West, Shangdai Industrial Estate,
Chenghua Stree,Chenghai Area, Shantou City, Guangdong
Province, China

Equipment Under Test (EUT)

Product Name: REMOTS CONTROL CAR SERIES

Model No.: 1833-6, 1836-1, 1836-2, 1836-3, 1836-4, 1836-5, 1836-6,
1836-7, 1836-8, 1836-9, 1836-10, 1836-11, 1836-12, 1836-13,
1836-14, 1836-15, 1836-16, 1836-17, 1836-18, 1836-19, 1836-
20, 1837-1, 1837-2, 1837-3, 1837-4, 1837-5, 1837-6, 1837-7,
1837-8, 1837-9, 1837-10, 1837-11, 1837-12, 1837-13, 1837-14,
1837-15, 1837-16, 1837-17, 1837-18, 1837-19, 1837-20, 1833-
5, 1833-7, 1833-8, 1833-9, 1833-10, 1833-11, 1833-12, 1833-
13, 1833-14, 1833-15, 1833-16, 1833-17, 1833-18, 1833-19,
1833-20, 1833-21, 1833-22, 1833-23, 1833-24, 1838-1, 1838-2,
1838-3, 1838-4, 1838-5, 1838-6, 1838-7, 1838-8, 1838-9,
1838-10, 1839-1, 1839-2, 1839-3, 1839-4, 1839-5, 1839-6,
1839-7, 1839-8, 1839-9, 1839-10

FCC ID: 2A5IA1836-1-2-3

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249

Date of sample receipt: October 25, 2022

Date of Test: October 25, 2022-December 01, 2022

Date of report issued: December 01, 2022

Test Result : PASS *

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

Authorized Signature:



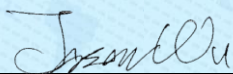
Robinson Luo
Laboratory Manager

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	December 01, 2022	Original

Prepared By:

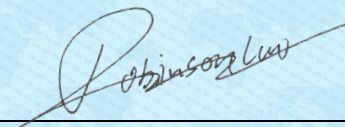


Date:

December 01, 2022

Project Engineer

Check By:



Date:

December 01, 2022

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Remarks:

1. Test according to ANSI C63.10:2013.
2. Pass: The EUT complies with the essential requirements in the standard.

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:	REMOTS CONTROL CAR SERIES
Model No.:	1833-6, 1836-1, 1836-2, 1836-3, 1836-4, 1836-5, 1836-6, 1836-7, 1836-8, 1836-9, 1836-10, 1836-11, 1836-12, 1836-13, 1836-14, 1836-15, 1836-16, 1836-17, 1836-18, 1836-19, 1836-20, 1837-1, 1837-2, 1837-3, 1837-4, 1837-5, 1837-6, 1837-7, 1837-8, 1837-9, 1837-10, 1837-11, 1837-12, 1837-13, 1837-14, 1837-15, 1837-16, 1837-17, 1837-18, 1837-19, 1837-20, 1833-5, 1833-7, 1833-8, 1833-9, 1833-10, 1833-11, 1833-12, 1833-13, 1833-14, 1833-15, 1833-16, 1833-17, 1833-18, 1833-19, 1833-20, 1833-21, 1833-22, 1833-23, 1833-24, 1838-1, 1838-2, 1838-3, 1838-4, 1838-5, 1838-6, 1838-7, 1838-8, 1838-9, 1838-10, 1839-1, 1839-2, 1839-3, 1839-4, 1839-5, 1839-6, 1839-7, 1839-8, 1839-9, 1839-10
Test Model No.:	1833-6
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color and model name for commercial purpose.	
Serial No.:	20221020
Test sample(s) ID:	GTS202210000198-1
Sample(s) Status	Engineered sample
Operation Frequency:	2410MHz~2473MHz
Channel numbers:	32
Modulation type:	GFSK
Antenna Type:	Wire antenna
Antenna gain:	0.17dBi(Declared by applicant)
Power supply:	TX: DC 3.0V (2*1.5V Size "AA" Battery)

Note: The report is only for TX device

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	9	2426	17	2441	25	2458
2	2414	10	2428	18	2442	26	2462
3	2415	11	2429	19	2444	27	2464
4	2416	12	2430	20	2446	28	2465
5	2417	13	2431	21	2450	29	2466
6	2418	14	2433	22	2452	30	2467
7	2419	15	2434	23	2454	31	2469
8	2421	16	2439	24	2456	32	2473

The test frequencies are below:

Channel	Frequency
The lowest channel	2410MHz
The middle channel	2442MHz
The Highest channel	2473MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: New battery is used during all test.	

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	86.34	87.78	85.41

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

- **FCC—Registration No.: 381383**

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.

- **IC —Registration No.: 9079A**

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

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

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All 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

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	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 21, 2022	March 20, 2023
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

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

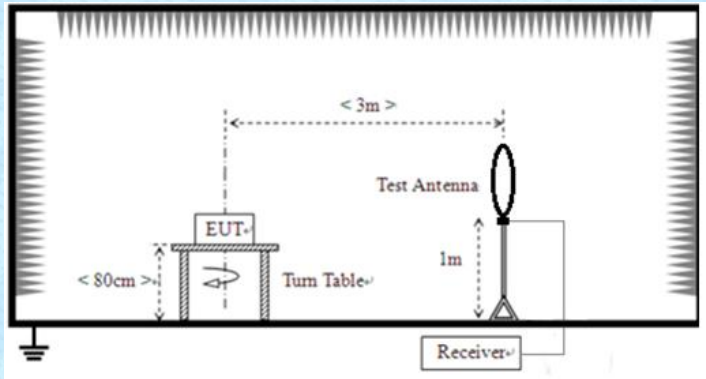
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 25, 2022	April 24, 2023
2	Barometer	KUMAO	SF132	GTS647	July 26, 2022	July 25, 2023

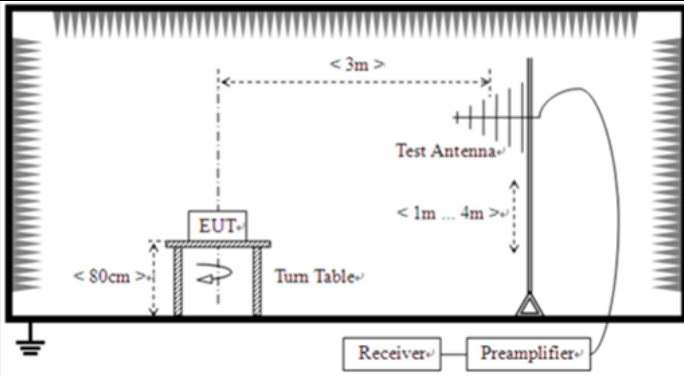
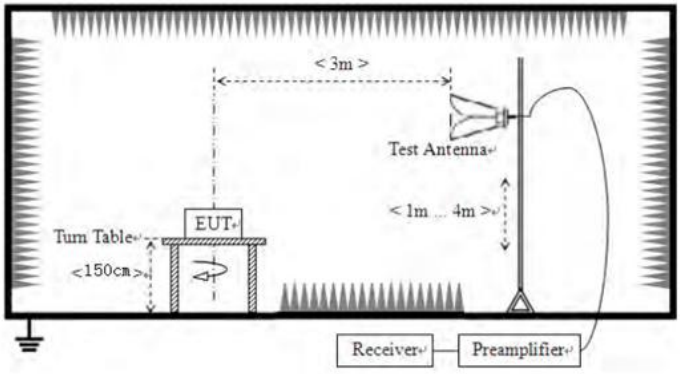
7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 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(c) (1)(i) requirement: (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.	
EUT Antenna:	
The antenna is wire antenna, reference to the appendix II for details.	

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	Remark
	9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	2400MHz-2483.5MHz		94.00		Average Value
			114.00		Peak Value
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)		Remark
	0.009MHz-0.490MHz		2400/F(kHz) @300m		Quasi-peak Value
	0.490MHz-1.705MHz		24000/F(kHz) @30m		Quasi-peak Value
	1.705MHz-30.0MHz		30 @30m		Quasi-peak Value
	30MHz-88MHz		100 @3m		Quasi-peak Value
	88MHz-216MHz		150 @3m		Quasi-peak Value
	216MHz-960MHz		200 @3m		Quasi-peak Value
	960MHz-1GHz		500 @3m		Quasi-peak Value
	Above 1GHz		500 @3m		Average Value
5000 @3m			Peak Value		
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	For radiated emissions from 9kHz to 30MHz  For radiated emissions from 30MHz to1GHz				

	 For radiated emissions above 1GHz 	
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters 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 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test environment:	Temp.:	25 °C
	Humid.:	52%
	Press.:	1012mbar
Test voltage:	DC 3.0V	
Test results:	Pass	

Measurement data:

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2410.00	93.51	27.43	2.93	38.88	84.99	114.00	-29.01	Vertical
2410.00	95.59	27.43	2.93	38.88	87.07	114.00	-26.93	Horizontal
2442.00	93.78	27.55	2.96	38.98	85.31	114.00	-28.69	Vertical
2442.00	96.25	27.55	2.96	38.98	87.78	114.00	-26.22	Horizontal
2473.00	94.54	27.64	2.99	39.05	86.12	114.00	-27.88	Vertical
2473.00	93.74	27.64	2.99	39.05	85.32	114.00	-28.68	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2410.00	77.13	27.43	2.93	38.88	68.61	94.00	-25.39	Vertical
2410.00	82.71	27.43	2.93	38.88	74.19	94.00	-19.81	Horizontal
2442.00	78.67	27.55	2.96	38.98	70.20	94.00	-23.80	Vertical
2442.00	84.15	27.55	2.96	38.98	75.68	94.00	-18.32	Horizontal
2473.00	77.56	27.64	2.99	39.05	69.14	94.00	-24.86	Vertical
2473.00	82.49	27.64	2.99	39.05	74.07	94.00	-19.93	Horizontal

Note: RBW>20dB BW, VBW> RBW, PK detector is for PK value, AV detector is for AV value .

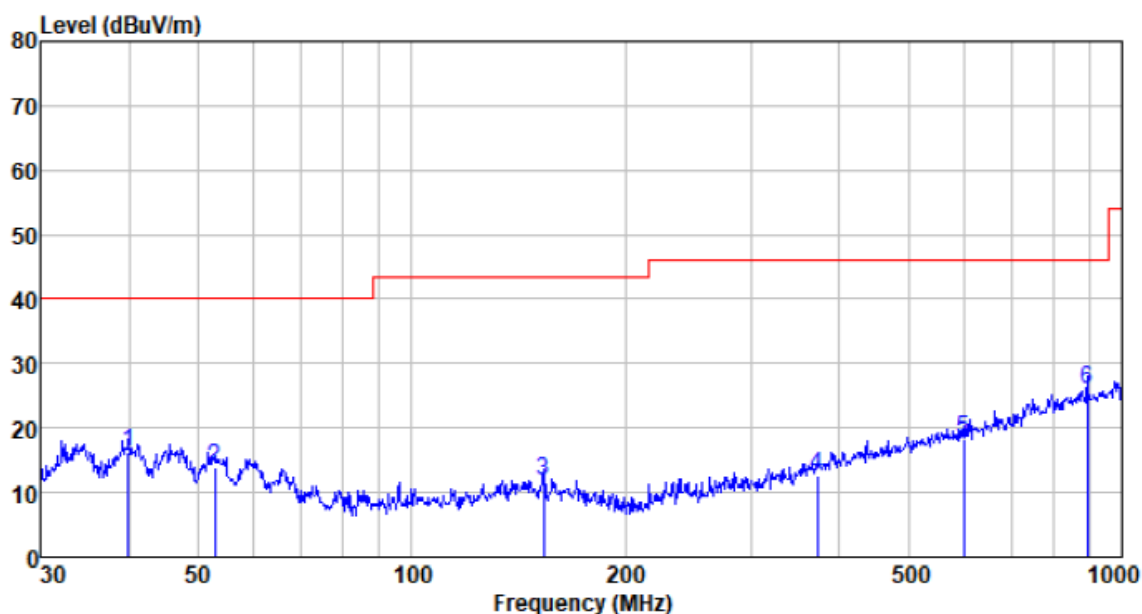
7.2.2 Spurious emissions

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

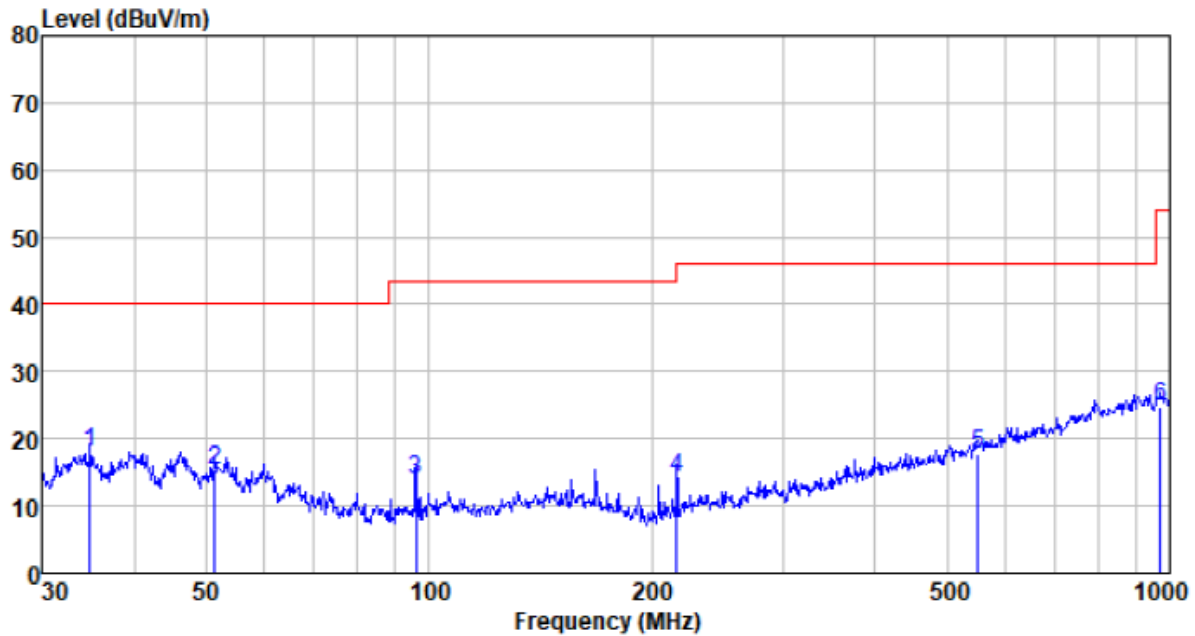
■ Below 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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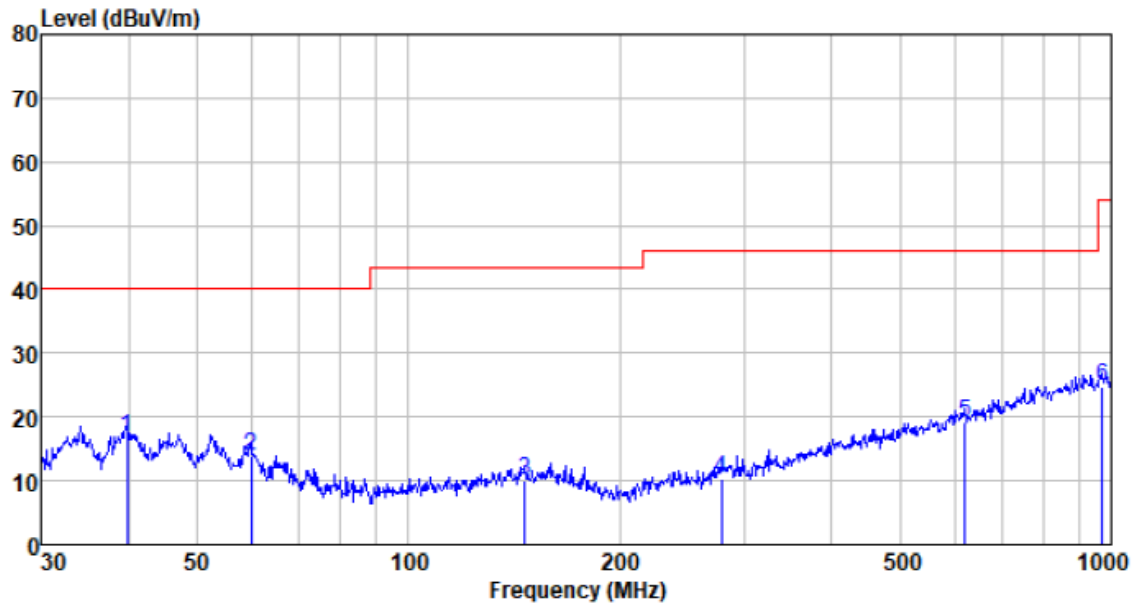
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.854	37.47	13.48	0.66	35.29	16.32	40.00	-23.68	QP
52.760	35.56	13.02	0.80	35.64	13.74	40.00	-26.26	QP
153.200	33.96	12.53	1.59	36.41	11.67	43.50	-31.83	QP
372.005	32.15	14.87	2.72	36.98	12.76	46.00	-33.24	QP
599.321	32.52	19.29	3.72	37.18	18.35	46.00	-27.65	QP
893.857	34.81	23.83	4.83	37.35	26.12	46.00	-19.88	QP

Test channel:	Lowest	Polarization:	Vertical
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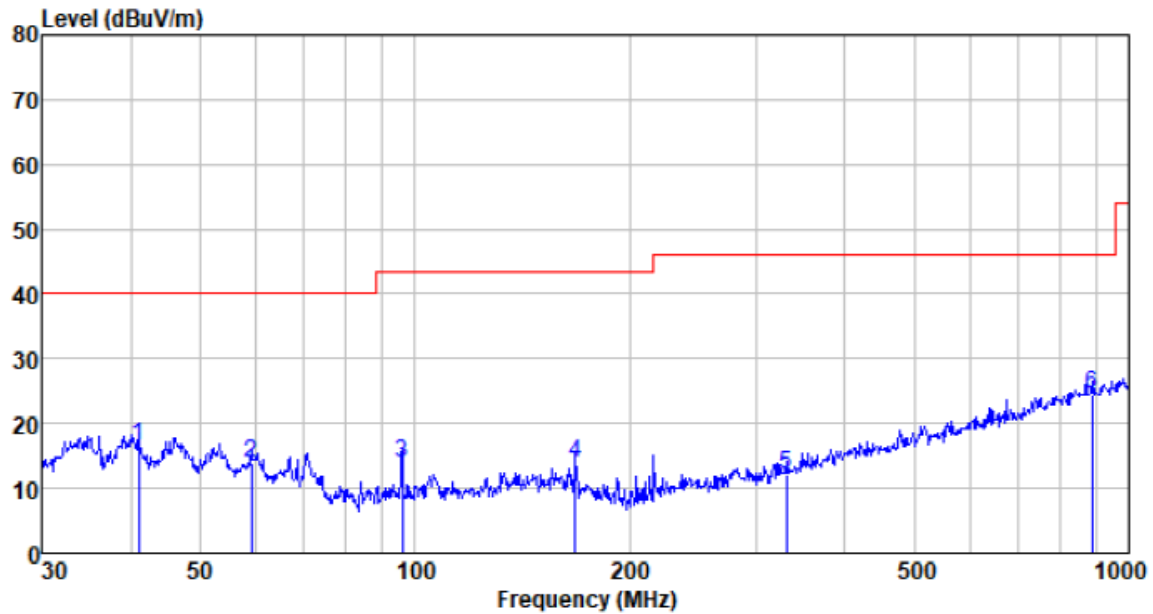
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
34.882	39.76	12.69	0.61	35.01	18.05	40.00	-21.95	QP
51.301	36.95	13.12	0.78	35.62	15.23	40.00	-24.77	QP
96.099	39.50	9.28	1.16	36.07	13.87	43.50	-29.63	QP
216.024	38.73	10.09	1.93	36.66	14.09	46.00	-31.91	QP
550.948	32.87	18.50	3.53	37.14	17.76	46.00	-28.24	QP
972.337	32.59	24.49	5.12	37.39	24.81	54.00	-29.19	QP

Test channel:	Middle	Polarization:	Horizontal
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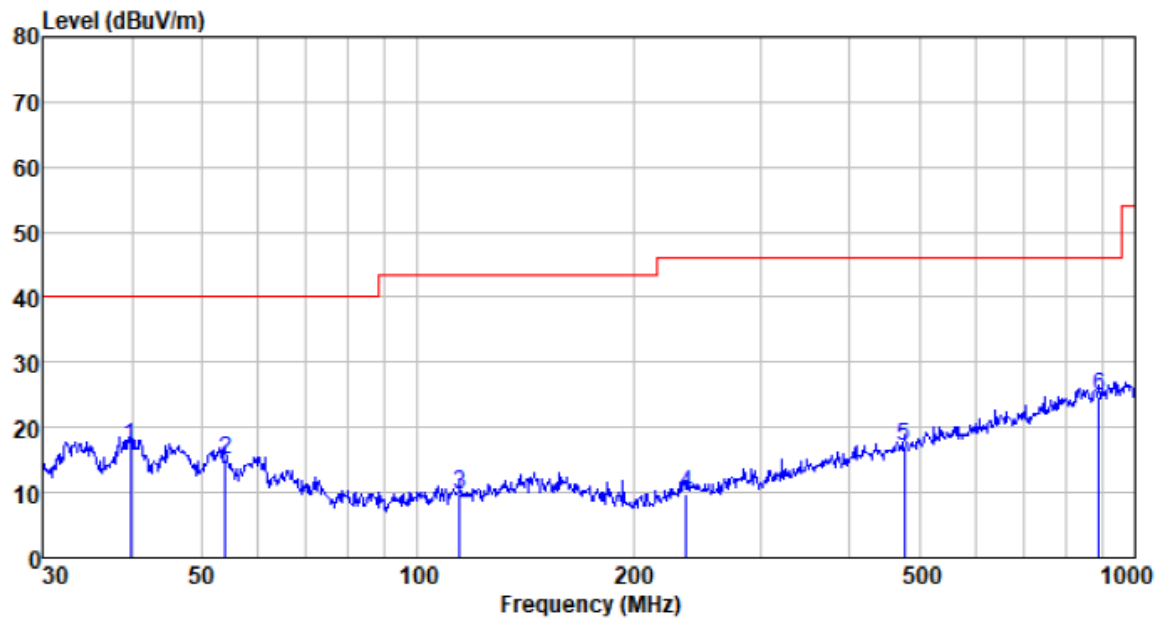
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.715	38.05	13.46	0.66	35.29	16.88	40.00	-23.12	QP
59.649	36.12	12.62	0.86	35.73	13.87	40.00	-26.13	QP
146.374	32.48	12.47	1.55	36.38	10.12	43.50	-33.38	QP
279.044	32.03	12.83	2.27	36.85	10.28	46.00	-35.72	QP
618.537	33.11	19.60	3.80	37.19	19.32	46.00	-26.68	QP
972.337	32.69	24.49	5.12	37.39	24.91	54.00	-29.09	QP

Test channel:	Middle	Polarization:	Vertical
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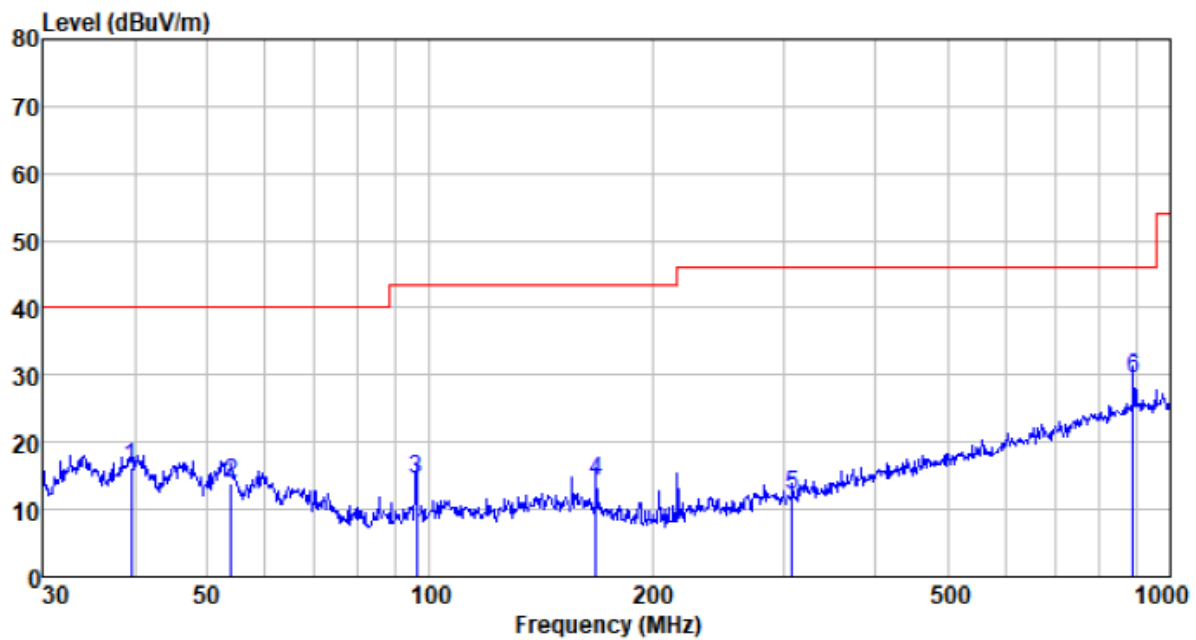
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
40.988	37.73	13.47	0.67	35.33	16.54	40.00	-23.46	QP
59.025	36.03	12.65	0.85	35.72	13.81	40.00	-26.19	QP
96.099	39.59	9.28	1.16	36.07	13.96	43.50	-29.54	QP
167.824	36.93	11.67	1.67	36.48	13.79	43.50	-29.71	QP
331.355	32.97	13.54	2.53	36.94	12.10	46.00	-33.90	QP
887.610	33.22	23.76	4.80	37.35	24.43	46.00	-21.57	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
39.715	38.33	13.46	0.66	35.29	17.16	40.00	-22.84	QP
53.882	37.04	12.95	0.81	35.65	15.15	40.00	-24.85	QP
114.515	33.92	10.82	1.31	36.20	9.85	43.50	-33.65	QP
236.645	33.08	11.39	2.05	36.73	9.79	46.00	-36.21	QP
477.169	33.70	17.20	3.21	37.08	17.03	46.00	-28.97	QP
890.728	33.44	23.79	4.82	37.35	24.70	46.00	-21.30	QP

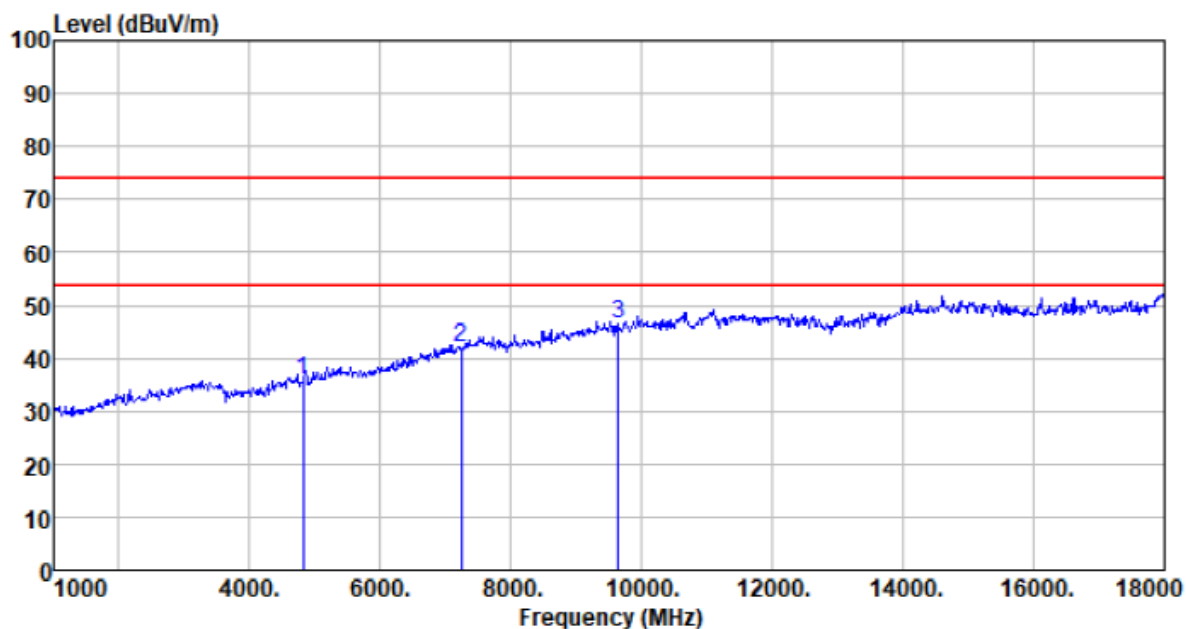
Test channel:	Highest	Polarization:	Vertical
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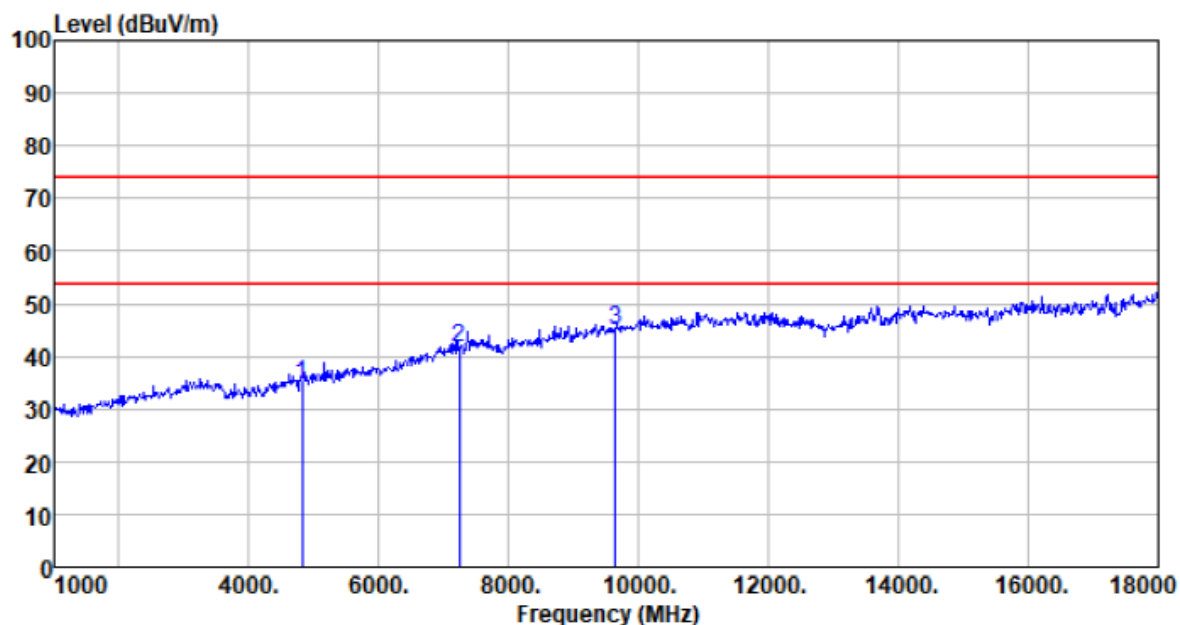
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
39.576	37.39	13.44	0.66	35.28	16.21	40.00	-23.79	QP
53.882	35.68	12.95	0.81	35.65	13.79	40.00	-26.21	QP
96.099	40.02	9.28	1.16	36.07	14.39	43.50	-29.11	QP
167.824	37.38	11.67	1.67	36.48	14.24	43.50	-29.26	QP
308.913	33.77	12.74	2.41	36.91	12.01	46.00	-33.99	QP
890.728	38.17	23.79	4.82	37.35	29.43	46.00	-16.57	QP

■ Above 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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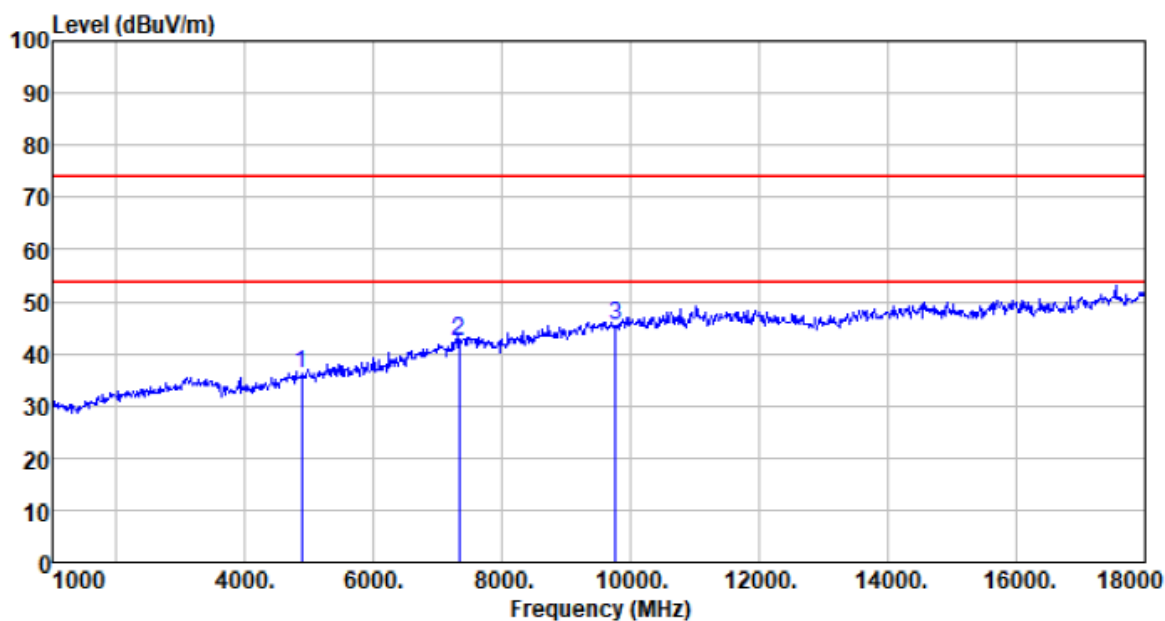


Test channel:	Lowest	Polarization:	Vertical
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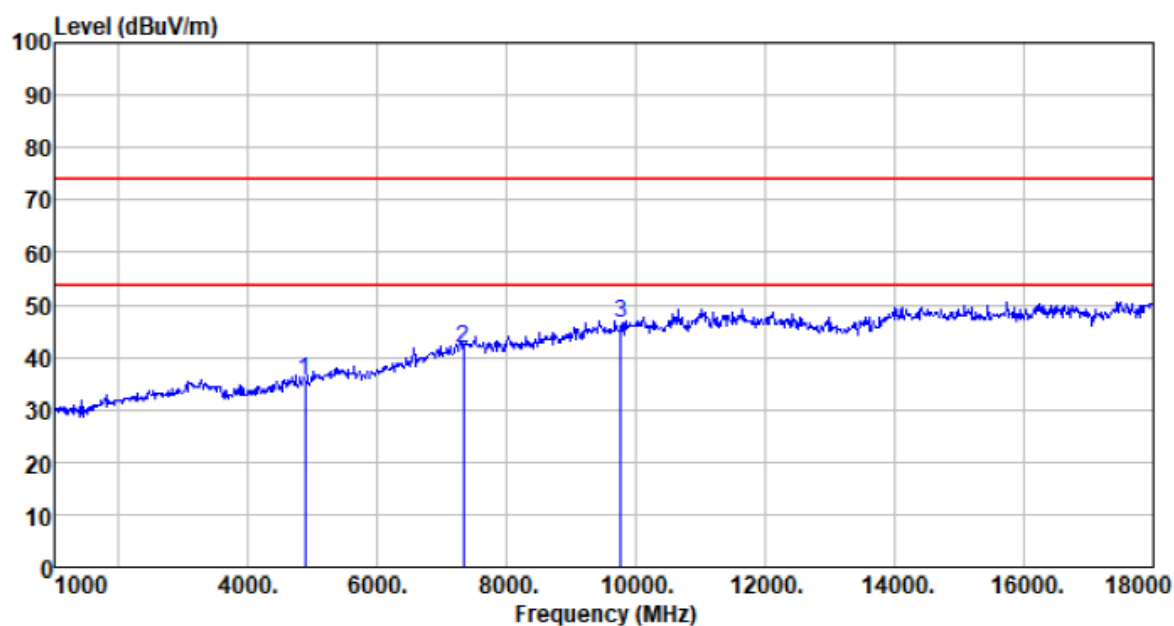
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4820.000	37.40	31.10	4.63	38.36	34.77	74.00	-39.23	Peak
7230.000	38.38	35.96	6.50	38.97	41.87	74.00	-32.13	Peak
9640.000	38.95	37.94	7.98	39.69	45.18	74.00	-28.82	Peak

Test channel:	Middle	Polarization:	Horizontal
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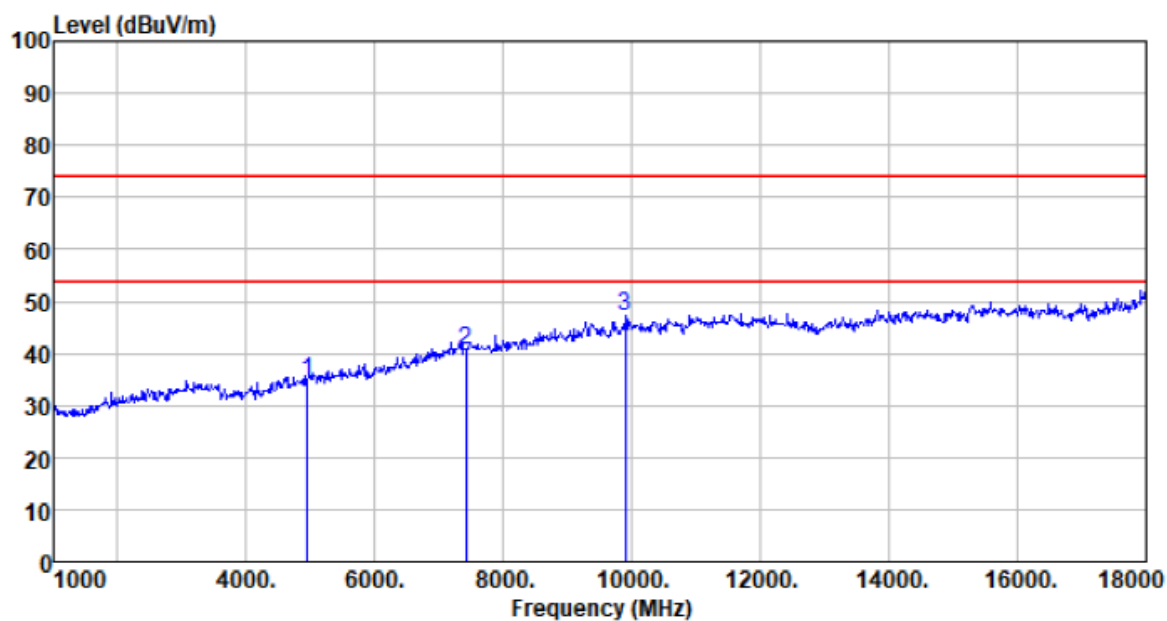
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4882.000	38.40	31.27	4.69	38.38	35.98	74.00	-38.02	Peak
7323.000	38.61	36.15	6.63	39.00	42.39	74.00	-31.61	Peak
9764.000	39.09	38.06	8.03	39.73	45.45	74.00	-28.55	Peak

Test channel:	Middle	Polarization:	Vertical
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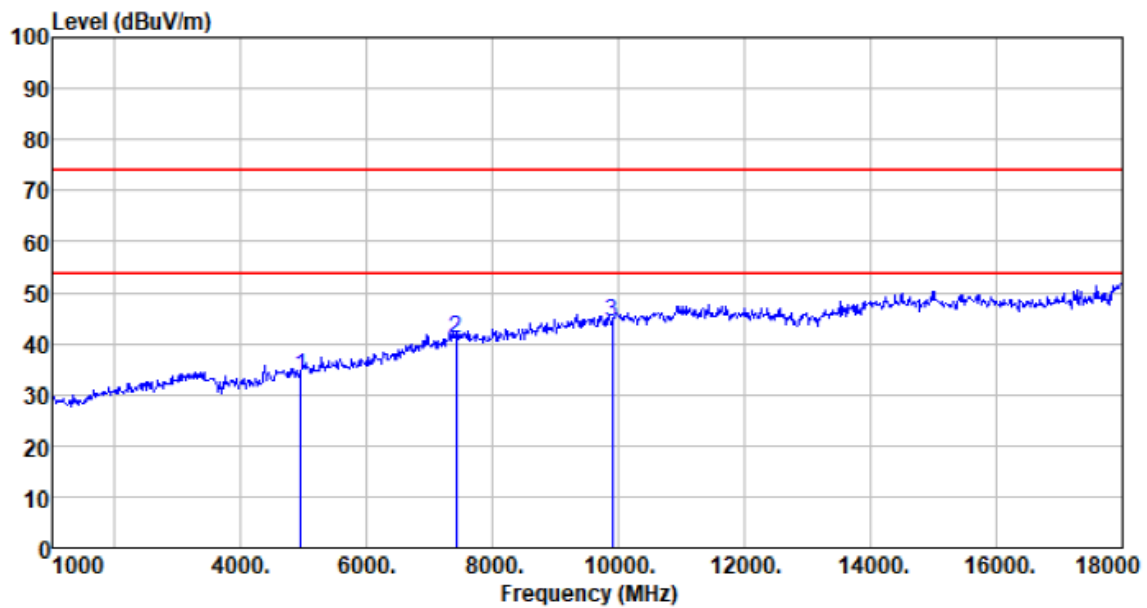
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4882.000	37.78	31.27	4.69	38.38	35.36	74.00	-38.64	Peak
7323.000	37.79	36.15	6.63	39.00	41.57	74.00	-32.43	Peak
9764.000	39.96	38.06	8.03	39.73	46.32	74.00	-27.68	Peak

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
4946.000	36.71	31.45	4.77	38.39	34.54	74.00	-39.46	Peak
7419.000	36.44	36.34	6.75	39.03	40.50	74.00	-33.50	Peak
9892.000	40.57	38.19	8.08	39.77	47.07	74.00	-26.93	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
4946.000	35.92	31.45	4.77	38.39	33.75	74.00	-40.25	Peak
7419.000	36.91	36.34	6.75	39.03	40.97	74.00	-33.03	Peak
9892.000	37.80	38.19	8.08	39.77	44.30	74.00	-29.70	Peak

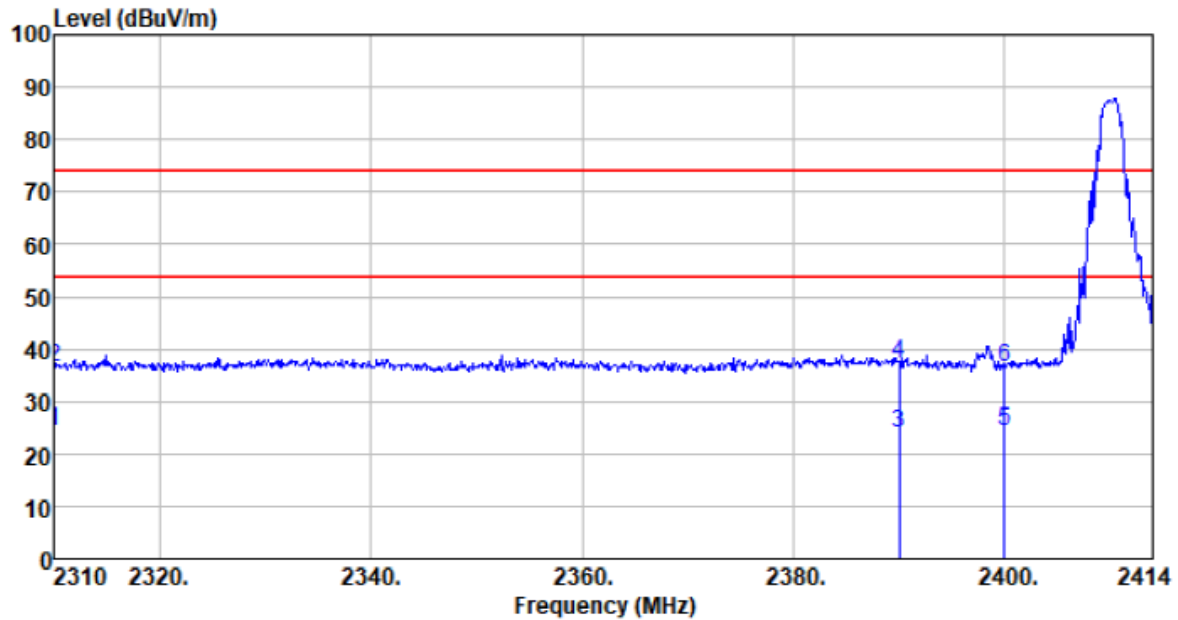
Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamp factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. For above 18GHz, no emission found.

7.2.3 Bandedge emissions

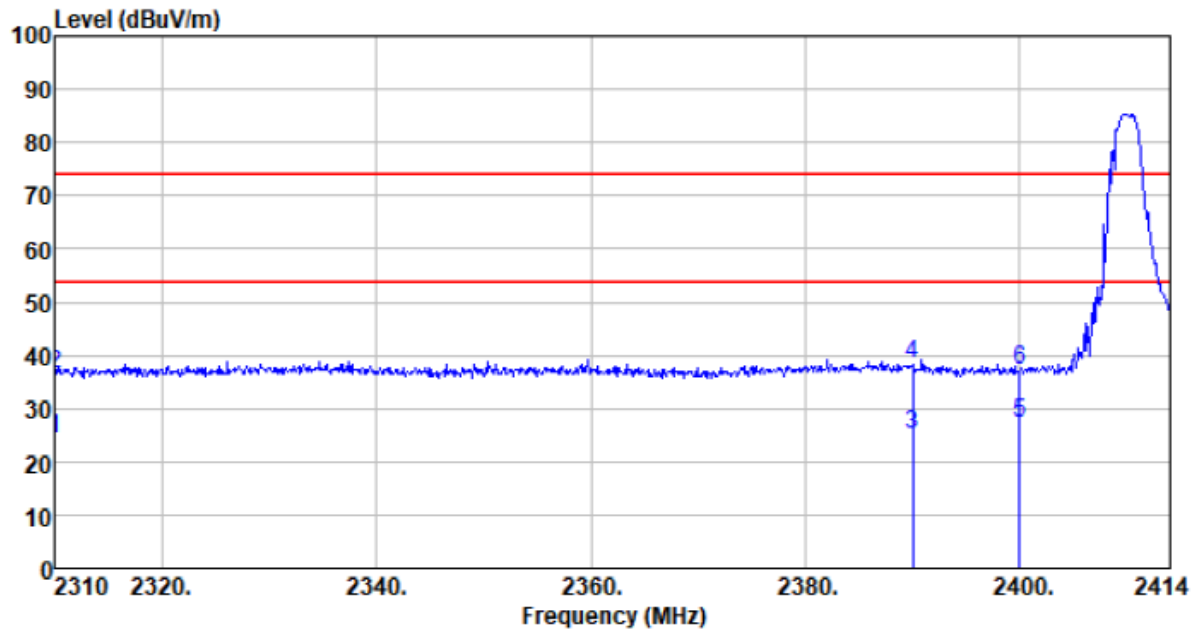
All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest	Polarization:	Horizontal
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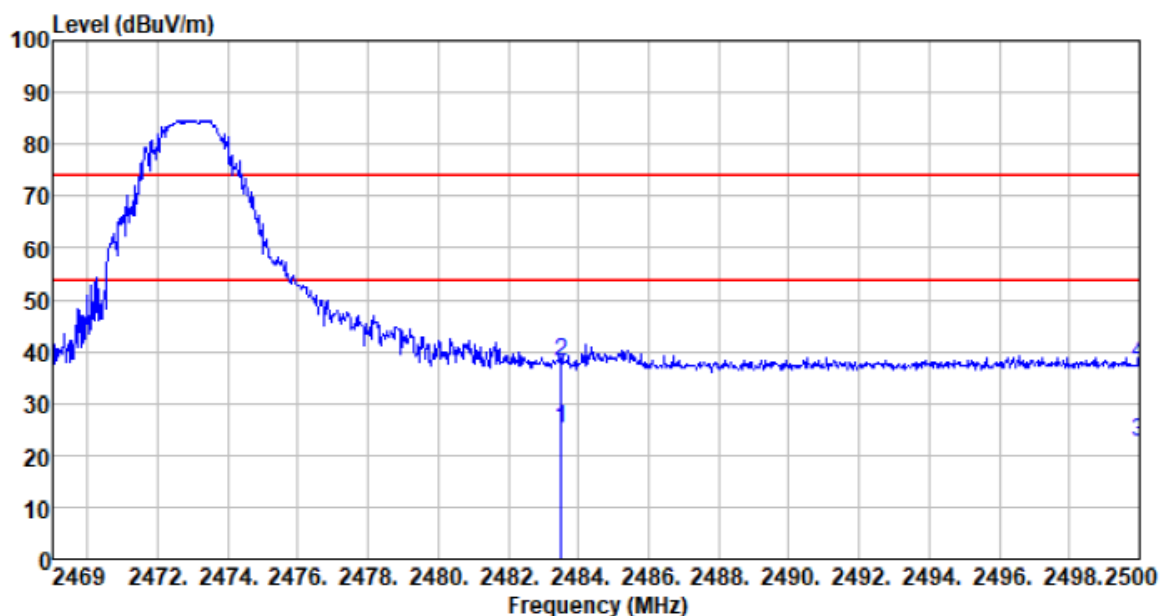
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	32.74	27.17	2.81	38.52	24.20	54.00	-29.80	Average
2310.000	44.98	27.17	2.81	38.52	36.44	74.00	-37.56	Peak
2390.000	32.37	27.27	2.91	38.56	23.99	54.00	-30.01	Average
2390.000	45.55	27.27	2.91	38.56	37.17	74.00	-36.83	Peak
2399.960	32.78	27.28	2.91	38.56	24.41	54.00	-29.59	Average
2399.960	44.86	27.28	2.91	38.56	36.49	74.00	-37.51	Peak

Test channel:	Lowest	Polarization:	Vertical
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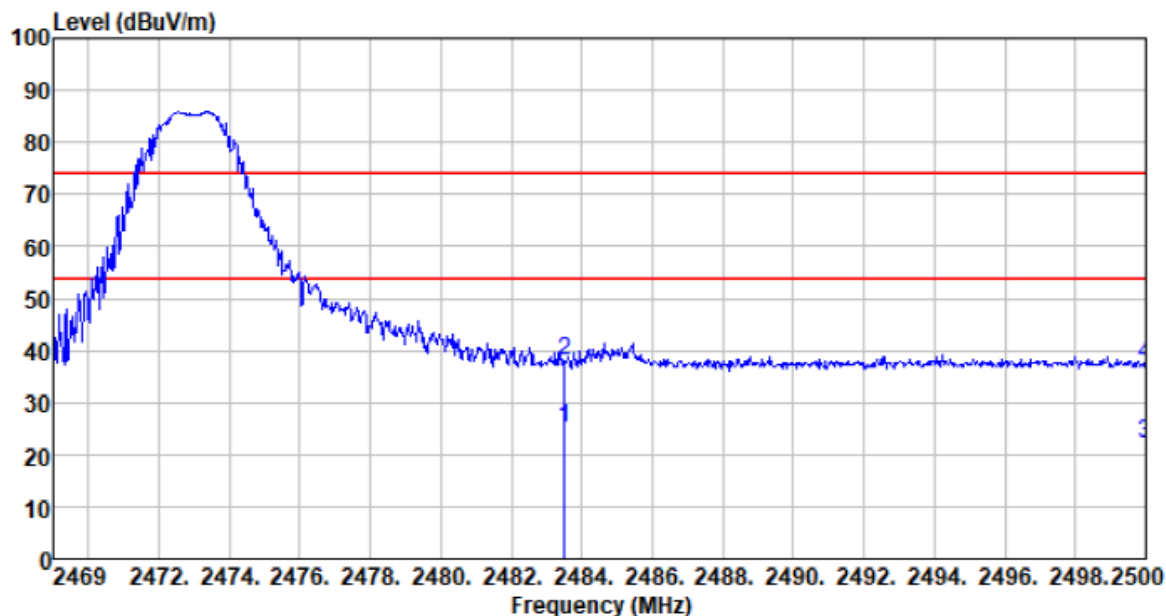
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	33.06	27.17	2.81	38.52	24.52	54.00	-29.48	Average
2310.000	45.10	27.17	2.81	38.52	36.56	74.00	-37.44	Peak
2390.000	33.64	27.27	2.91	38.56	25.26	54.00	-28.74	Average
2390.000	46.76	27.27	2.91	38.56	38.38	74.00	-35.62	Peak
2400.000	35.62	27.28	2.91	38.56	27.25	54.00	-26.75	Average
2400.000	45.76	27.28	2.91	38.56	37.39	74.00	-36.61	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	33.29	27.38	2.99	38.59	25.07	54.00	-28.93	Average
2483.500	46.09	27.38	2.99	38.59	37.87	74.00	-36.13	Peak
2500.000	30.63	27.40	3.01	38.60	22.44	54.00	-31.56	Average
2500.000	45.86	27.40	3.01	38.60	37.67	74.00	-36.33	Peak

Test channel:	Highest	Polarization:	Vertical
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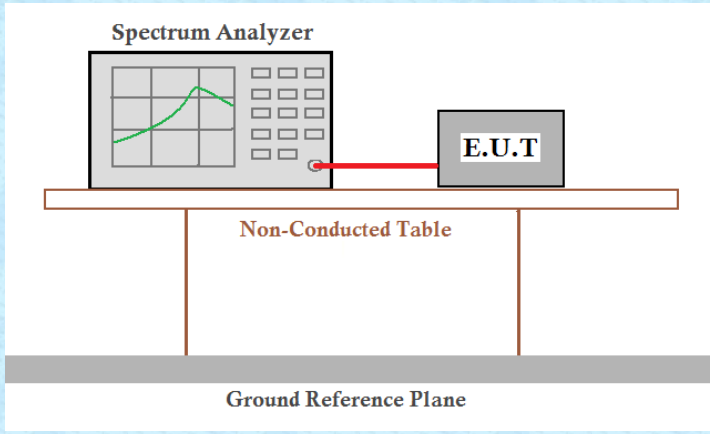


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	33.43	27.38	2.99	38.59	25.21	54.00	-28.79	Average
2483.500	46.25	27.38	2.99	38.59	38.03	74.00	-35.97	Peak
2500.000	30.43	27.40	3.01	38.60	22.24	54.00	-31.76	Average
2500.000	45.55	27.40	3.01	38.60	37.36	74.00	-36.64	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

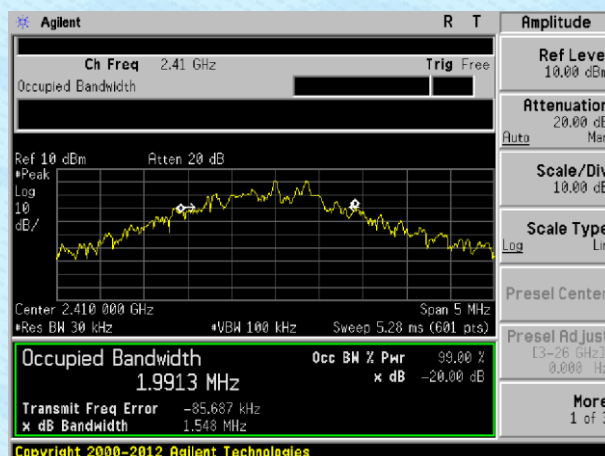
7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	 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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

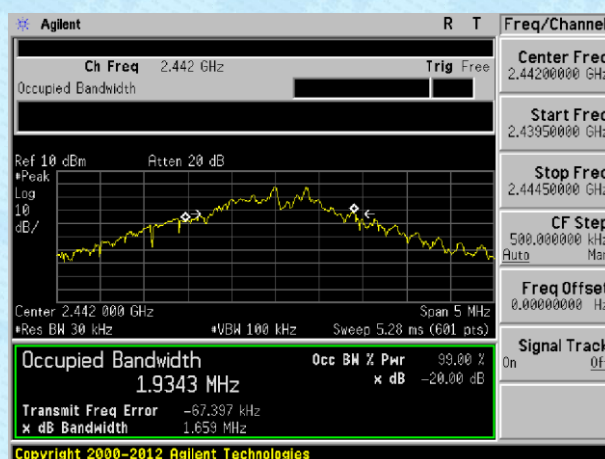
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	1.548	Pass
Middle	1.659	Pass
Highest	1.604	Pass

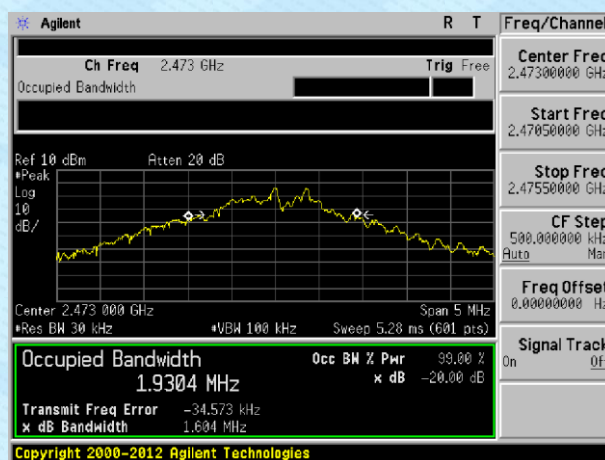
Test plot as follows:



Lowest channel



Middle channel



Highest channel

8 Test Setup Photo

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

9 EUT Constructional Details

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

-----End-----