



**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

*FCC PART 15.247, SUBPART C  
IC RSS-247  
TEST REPORT*

*for*

*the*

EP2000

Model: EP-2000

Prepared for

Aptiv Services US LLC.  
999 Republic Dr.  
Allen Park, MI, 48101

Prepared by:

Andreas Davidsson

Approved by:

Kevin Bothmann

Electro Magnetic Test, Inc.  
1547 Plymouth Street  
Mountain View, California 94043  
(650) 965-4000

Date: January 16, 2022

	REPORT BODY	APPENDICI				TOTAL
		A	B	C	D	
PAGES	32	176	3	2	3	216

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**REVISION HISTORY**

<b>REVISION</b>	<b>DATE</b>	<b>COMMENTS</b>	<b>MODIFIED BY</b>
0	January 16, 2022	Original Document	-
1	April 5, 2022.	Updated following comments from reviewer.	AD
1.1	May 17, 2022	Updated following comments from reviewer.	AD
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**LIST OF APPENDICES**

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A	Radiated and Conducted Data Sheets <ul style="list-style-type: none"> <li>• Radiated Emissions Test Data (General Requirements, and Restricted Bands)</li> <li>• Emissions in Non-Restricted Frequency Bands Test Data</li> <li>• Occupied Bandwidth Test Data</li> <li>• Maximum Average Output Power Test Data</li> <li>• Maximum Peak Power Spectral Density Test Data</li> </ul>
B	Test Setup Diagrams
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1	Conducted Emissions Test Setup
2	Plot Map And Layout of Test Site
3	Layout of 5 Meter Semi-Anechoic Chamber



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### **GENERAL REPORT SUMMARY**

This electromagnetic emission test report is generated by Electro Magnetic Test, Inc., which is an independent testing and consulting firm. The test report is based on testing performed Electro Magnetic Test, Inc. personnel according to the measurement procedure described in the test specification given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Federal Government.

Electro Magnetic Test, Inc. is recognized by the following agencies for performing EMI/EMC testing:

<b>COUNTRY</b>	<b>AGENCY</b>	<b>IDENTIFYING #</b>
USA	Federal Communications Commission (FCC) (EMT's test site is recognized by the FCC)	Registration Number: US5352
USA, Canada, Taiwan, Australia/New Zealand, European Community	National Voluntary Lab Accreditation Program (NVLAP) (EMT is accredited by NVLAP. A copy of the NVLAP Scope Of Accreditation is available upon request.)	Lab Code: 200147-0
Canada	Industry Canada	File No.: IC 2804A
Japan	Voluntary Control Council For Interference (VCCI)	A-0118
	Open Field Test Site "A"	-
	Mains Conducted Emissions Test Site "D"	-
	Telecom Conducted Emissions Test Site "D"	-
	3 Meter Semi-Anechoic Chamber Site "E"	-
	3 Meter Semi-Anechoic Chamber Site "E" (1GHz – 6GHz)	-
	Mains Conducted Emissions Test Site "E"	-
	Telecom Conducted Emissions Test Site "E"	-
Korea	Ministry of Information and Communication's Radio Research Laboratory (RRL) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (A copy of the Scope Of Accreditation is available upon request)	US0036
Taiwan	Bureau Of Standards, Metrology and Inspection (BSMI)	Reference Number: SL2-IN-E-1024
Australia/ New Zealand	Australian Communications Authority (AUSTEL)	*

\*These agencies do not issue an identifying number to test labs.



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### **GENERAL REPORT SUMMARY (CONTINUED)**

Device Tested: EP2000  
 Model: EP-2000  
 S/N: N/A

Product Description: The EP2000 is a car media module with Bluetooth and Wi-Fi capabilities.

Modifications: The EUT was not modified during the testing.

Manufacturer: Aptiv Services US LLC.  
 999 Republic Dr.  
 Allen Park, MI, 48101

Test Date(s): January 6, 7, 8, 9, 15, 16, June 24, 29, July 10, 21, 2022.

Test Specifications: EMI requirements  
 Limits: CISPR 22: 1997 plus A1:2000 & A2:2002 Class B  
 FCC Title 47, Part 15 Subpart B, Class B  
 FCC Title 47, Part 15 Subpart C  
 RSS-GEN Issue 5  
 RSS 247 Issue 2  
 Test Procedure: ANSI C63.10: 2013

Test Deviations: The test procedure was not deviated from during the testing.

### **SUMMARY OF TEST RESULTS**

<b>TEST</b>	<b>DESCRIPTION</b>	<b>FCC STANDARD</b>	<b>IC STANDARD</b>	<b>RESULTS</b>
7.1	Emissions in Restricted and Non-Restricted Bands	15.209, 15.247, 15.247(d)	RSS-GEN Issue 5, [8.9] RSS 247 Issue 2, [5.5]:	<b>PASS</b>
7.2	Conducted Emissions	15.207(a)	RSS-GEN Issue 5 [8.8]	<b>PASS</b>
7.3	Occupied Bandwidth	15.247(a)(2)	RSS 247 Issue 2, [5.2.1, 6.2.4.1]	<b>PASS</b>
7.4	Maximum Average Output Power	15.247 (b)	RSS 247 Issue 2, [5.4.4]	<b>PASS</b>
7.5	Maximum Peak Power Spectral Density	15.247(e)	RSS 247 Issue 2, [5.2.2]	<b>PASS</b>
7.6	Antenna Requirement	15.203, 15.247(b)(4))	N/A	<b>PASS</b>
7.7	FHSS Requirements	15.247(a), 15.247(b)(1), and 15.247(b)(2)	RSS 247 Issue 2, [5.1, 5.4(b)]	



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### **TECHNICAL DESCRIPTION OF THE EUT**

<b>Manufacturer:</b>	Aptiv Services US LLC.						
<b>Manufacturer Address:</b>	999 Republic Dr. Allen Park, MI, 48101						
<b>EUT Name:</b>	EP2000						
<b>Model No:</b>	Model: EP-2000						
<b>Operation frequency:</b>	2400 MHz to 2483.5 MHz						
<b>Channel Number:</b>	40, 79, 13						
<b>Modulation Technology:</b>	GFSK (BT, BLE), 4DQPSK (BT), 8DPSK (BT), DSSS (WiFi), OFDM (WiFi)						
<b>Antenna Type:</b>	Dielectric Chip Antenna (Internal) , Dielectric Antenna (External)						
<b>Antenna Gain:</b>	1.1dBi (BT, BLE), 3dBi (WiFi Ext) 0.97dBi (WiFi Int)						
<b>Maximum Output Power:</b>	10, 4, 8dBm						
<b>Description of Channel:</b>							
<b>Bluetooth LE</b>							
<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Channel</b>	<b>Frequency (MHz)</b>
<b>0</b>	<b>2402</b>	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	<b>19</b>	<b>2440</b>	29	2460	<b>39</b>	<b>2480</b>


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Bluetooth							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>0</b>	<b>2402</b>	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	<b>78</b>	<b>2480</b>
19	2421	<b>39</b>	<b>2441</b>	59	2461		



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WiFi 802.11(b/g/n)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>1</b>	<b>2412</b>	4	2427	<b>7</b>	<b>2442</b>	10	2457
2	2417	5	2432	8	2447	<b>11</b>	<b>2462</b>
3	2422	6	2437	9	2452		



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**1. PURPOSE**

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the EP2000 Model: EP-2000. The EMI measurements were performed according to the measurement procedure described in ANSI C63.10-2013. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined in FCC Title 47, Part 15, Subpart C and IC RSS 247, Issue 2.

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**2. ADMINISTRATIVE DATA****2.1 Location of Testing**

The EMI tests described herein were performed at the test facility of Electro Magnetic Test, Inc., 1547 Plymouth Street, Mountain View, California, 94043.

**2.2 Traceability Statement**

The calibration certificates of all test equipment used during the test are on file at the location of the test. The measurement results in this report and the calibration of the test equipment are traceable to the National Institute of Standards and Technology (NIST).

**2.3 Cognizant Personnel**Aptiv Services US LLC.

Mark Pollard                      Certification Manager

Electro Magnetic Test, Inc.

Andreas Davidsson      Test Technician  
Chinmay Shendurnikar      Test Technician  
David Vivanco              Test Technician  
Simeet Gandhi              Test Technician  
Manan Modi                 Test Technician  
Kevin Bothmann             Lab Manager

**2.4 Date Test Sample was Received**

The test sample was received on January 6, 2022.

**2.5 Disposition of the Test Sample**

The test sample has not yet been returned to Aptiv Services US LLC.

**2.6 Abbreviations and Acronyms**

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
CISPR	International Special Committee On Radio Interference
FCC	Federal Communications Commission

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### 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
RSS-Gen Issue 5, April 2018	General Requirements for Compliance of Radio Apparatus
RSS 247, Issue 2, February 2017	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
FCC Title 47, Part 15, Subpart C	FCC Rules - Radio frequency devices (including digital devices).
FCC Publication KDB558074	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the fcc rules, August 24, 2018
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.



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## **4. DESCRIPTION OF TEST CONFIGURATION**

### **4.1 Description of Test Configuration - EMI**

The EP2000 was connected to the DC power supply through its positive and negative leads. During testing the radio was continuously transmitting and the EP2000 was tested in its worst case orientation

Radio was controlled via an Ethernet connection between the EUT and a Laptop outside the chamber, which was sending commands to the EUT via Labtool software. Maximum input power that was set was 7, 1, and 5 dB for Bluetooth Low Energy, Bluetooth, and WiFi respectively.

For conducted testing on 802.11, Path A was the path connecting to the external antenna, and Path B was the path for the internal antenna.

For all radiated testing the system was set up for Correlated MIMO where applicable, with all applicable antennas radiating simultaneously.

For Bluetooth Low Energy, both 1mbps and 2mbps was tested and 2mbps was found to cause the worst case results, as such only 2mbps data is listed in this report.

The EUT was tested in three physical configurations across all modes, flat, vertical with antenna facing upwards, and vertical with antenna facing downwards. The flat orientation was found to have the highest intentional and unintentional emissions.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The cables were moved to maximize the emissions. The final conducted as well as radiated data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously.



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#### **4.1.1 Cable Construction and Termination**

##### Cable #1

This is a 3.5 ft. unshielded power cable connecting the EUT to the DC Generator. It has a positive and negative lead power connector on the both ends of the cable.

##### Cable #2

This is a 6 ft. unshielded Cat 6 cable connecting the EUT to the laptop. It has a RJ45 connector on both ends of the cable.

##### Cables #3

This is an unshielded power cable connecting the DC Generator power supply into a power outlet.


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**5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**
**5.1 EUT and Accessory List**

<b>EQUIPMENT TYPE</b>	<b>MANUFACTURER</b>	<b>MODEL</b>	<b>SERIAL NUMBER</b>	<b>FCC ID</b>
EP2000 (EUT)	Aptiv Services US LLC.	EP2000	N/A	L2CEP2000
DC Generator	HP	6012A	135373	DOC
<b>THE FOLLOWING WERE LOCATED OUTSIDE THE TEST SITE:</b>				
Laptop	Toshiba	PORTEGE R835-ST6N02	1C094689H	DOC
Laptop Power Supply	Toshiba	PA3822U-1ACA	200140618512947	DOC


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**5.2 EMI Test Equipment**

<b>EQUIPMENT TYPE</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>CAL. DATE</b>	<b>CAL. CYCLE</b>
EMI Receiver	Rohde & Schwarz	ESU40	100295	February 23, 2021	1 Year
Radiated EMI Software	Sector Design	N/A	Ver.1.4.6	N/A	N/A
EMI Receiver (Conducted EMI)	Rohde & Schwarz	ESU40	100295	February 23, 2021/ February 16, 2022	1 Year
Conducted EMI Software	ETS-Lindgren	Tile!	Rev. 7.0.12.697	N/A	N/A
Preamplifier	Hewlett Packard	8447D	1937A02579	March 5, 2021	1 Year
RF Attenuator	Com-Power	LIT-153A	531175	December 17, 2021	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150701	June 15, 2021	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150702	June 15, 2021	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150703	June 15, 2021	1 Year
LISN	Solar Electronics	Type 21107-50-TS-50-N	21107150704	June 15, 2021	1 Year
Biconical Antenna	Com Power	AB-100	01557	March 2, 2021	1 Year
Log Periodic Antenna	Com Power	AL-100	16001	March 3, 2021	1 Year
Antenna Mast	Com Power	AM-400	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Dell, Inc.	DHS	DNSV641	N/A	N/A
Printer	Hewlett Packard	C8124A	CN39A220ZD	N/A	N/A




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**5.2 EMI Test Equipment (Continued)**

<b>EQUIPMENT TYPE</b>	<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>CAL. DATE</b>	<b>CAL. CYCLE</b>
EMI Receiver	Rohde & Schwarz	ESU40	100127	February 23, 2021 / February 16, 2022	1 Year
EMI Test Software	Rohde & Schwarz	EMC32	V8.54.0	N/A	N/A
BiConiLog Antenna	ETS-Lindgren	3143B	00206757	February 2, 2021	1 Year
Horn Antenna (1-18GHz)	ETS-Lindgren	3117	00109294	February 2, 2021	1 Year
Horn Antenna (18-26.5GHz)	ETS-Lindgren	3160-09	102646	August 13, 2021	1 Year
Horn Antenna (26.5-40GHz)	ETS-Lindgren	3160-10	109153	August 13, 2021	1 Year
Preamplifier (1-18GHz)	Rohde & Schwarz	TS-PR18	100056	December 17, 2021	1 Year
Preamplifier (18-26.5GHz)	Rohde & Schwarz	TS-PR26	100034	August 12, 2021	1 Year
Preamplifier (26.5-40GHz)	Rohde & Schwarz	TS-PR40	100030	August 12, 2021	1 Year
Antenna Mast	ETS-Lindgren	2171B	00150364	N/A	N/A
Turntable	ETS-Lindgren	2187-3.0	00118231	N/A	N/A
Computer	Dell, Inc.	Precision Tower 3620	GPQCDH2	N/A	N/A
Multi-Function Controller	ETS-Lindgren	2090	00102270	N/A	N/A
Spectrum Analyzer	Agilent	N9020A	MY53420778	June 22, 2021/June 20 2022	1 Year
Vector Signal Generator	Agilent	N5182B	MY53051070	June 22, 2021/ June 20 2022	1 Year



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### **6. TEST SITE DESCRIPTION**

#### **6.1 Test Facility Description**

Please refer to the table below and section 7.1 of this report for the details of which sites were used for testing. All sites are located at 1547 Plymouth Street, Mountain View, California 94043.

<b>Site Used For Test</b>	<b>Site Description</b>
	Open Field Test Site "A"
X	Mains Conducted Emissions Test Site "D"
	Telecom Conducted Emissions Test Site "D"
X	3 Meter test distance in 5 meter Semi-Anechoic Chamber Site "E"
	Mains Conducted Emissions Test Site "E"
	Telecom Conducted Emissions Test Site "E"

#### **6.2 EUT Mounting, Bonding and Grounding**

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane for all tests not including radiated measurements above 1GHz.

For radiated measurements above 1GHz the EUT was mounted on a 0.7 meter non-conductive hollow cube that was placed on a 1.0 by 1.5 meter table 0.8 meters above the ground plane with a total height of 1.5 meters.

The EUT was not grounded.

#### **6.3 Facility Environmental Characteristics**

All tests were performed in a climate controlled building. The temperature was 24□□ C, humidity 45%, and barometric pressure 101.6 kPa.



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## **7. TEST PROCEDURES**

The following sections describe the test methods and the specifications for the tests.

### **7.1 Emissions in Restricted and Non-Restricted Bands**

#### **7.1.1 General Requirements Limit (FCC PART 15 Section 15.209(a)(1), IC-RSS-GEN Issue 5, [8.9])**

Frequency of Emission (MHz)	Field Strength		Measurement Distance (Meters)
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
0.009-0.49	2400/F(kHz)		300
0.49-1.705	24000/F(kHz)		30
1.705-30	30		30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

#### **7.1.2 Emissions in Restricted and Non-Restricted Bands Limit (FCC PART 15 Section 15.247(d), IC RSS-GEN Issue 5, [8.10], IC-RSS 247 Issue 2, [5.5] )**

##### **Emissions in Restricted and Non-Restricted Bands FCC PART 15 Section 15.247(d):**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).


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**7.1.2**
**Emissions in Restricted and Non-Restricted Bands Limit (FCC PART 15 Section 15.247(d), IC-RSS-GEN Issue 5, [8.10], IC-RSS 247 Issue 2, [5.5] ) (Continued)**
**Emissions in Restricted Bands IC-RSS-GEN Issue 5, [8.10]:**

Restricted bands, identified in Table 6, are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:

- (a) Fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands of Table 6 except for apparatus complying under RSS-287
- (b) Unwanted emissions that fall into restricted bands of Table 6 shall comply with the limits specified in RSS-Gen; and
- (c) Unwanted emissions that do not fall within the restricted frequency bands of Table 6 shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

<b>Limit (For Restricted Bands)</b>
See General Limits Requirement In Above Chart (Section 7.1.1)

**Emissions in Non-Restricted Bands IC-RSS 247 Issue 2, [5.5]:**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

<b>Limit (For Non Restricted Bands)</b>
w Peak Power Spectral Density
30db Below Average Power Spectral Density

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### 7.1.3 Test Procedure (Radiated)

The Rohde & Schwarz ESU40 EMI receiver was used as a measuring meter while under software control by the Rohde & Schwarz EMC32 software. To increase the sensitivity of the instrument, the built in preamplifier was used from 9 KHz to 1 GHz and an external preamplifier was used from 1 GHz to 26.5 GHz. The EMI receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI receiver records the highest measured reading over all the sweeps. The built in quasi-peak or average detector was used only for those readings which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions per below.

9kHz-150kHz at RBW =200Hz-300Hz

150kHz-30MHz at RBW= 9kHz-10kHz

30MHz-1000MHz at RBW= 120kHz

1GHz-26.5GHz at RBW=1MHz

The Loop Antenna, Broadband BiConiLog and horn antennas were used as transducers during the measurement. The Loop antenna was used from 9 KHz to 30 MHz, the BiConiLog antenna was used from 30 MHz to 1000 MHz and horn antennas were used from 1GHz – 26.5 GHz. The frequency spans were wide (9 kHz to 150 kHz, 150 kHz to 30 MHz, 30 MHz to 88 MHz, 88 MHz to 216 MHz, 216 to 300 MHz, 300 MHz to 1 GHz, 1 GHz to 18 GHz and 18 GHz to 26.5 GHz) during preliminary investigations. The final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary.

The 5 meter semi-anechoic chamber of Electro Magnetic Test, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.10-2013. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. The EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength).

The presence of non EUT signals was verified by turning the EUT off. In case a non EUT signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the other signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance from 9 kHz to 26.5 GHz. to obtain final test data.

Calculation Of Radiated Emission Test Data:

Amplitude - Pre-Amp Gain + Antenna Factor + Cable Loss = Corrected Amplitude

Corrected Amplitude - Limit = Margin

Associated with the radiated emission test data in this report is a  $\pm 5.1$ dB measurement uncertainty.

Plots are for pre-scan only and does not represent final measurements.



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#### **7.1.4 Test Procedure (Band Edge)**

1. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
2. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.



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### **7.2 Conducted Emissions Test – Mains Ports**

#### **7.2.1 Limit (FCC PART 15 Section 15.207(a), IC RSS-GEN Issue 5 [8.8])**

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

\*Note: Decreases with the logarithm of the frequency

#### **7.2.2 Test Procedure (Conducted)**

The Rohde & Schwarz ESU40 EMI receiver was used as a measuring meter. The data was collected with the EMI receiver in the peak detect mode with the "Max Hold" feature activated. The quasi-peak and average detectors were used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the EMI receiver input stage, and the EMI receiver offset was adjusted accordingly to read the actual data measured. The LISN output was read by the Rohde & Schwarz ESU40 EMI receiver. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.10-2013. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The initial test data was taken in manual mode while scanning the frequency ranges of 0.15 MHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable and peripheral placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

The final data was collected under program control by the ETS-Lindgren Tile! software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave.

Calculation Of Conducted Emission Test Data:

Amplitudes shown on the test data are already corrected and include the following equation:

Raw Amplitude + LISN Insertion Loss + Attenuator + Cable Loss = Corrected Amplitude

Corrected Amplitude - Limit = Margin



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Associated with the conducted emission test data in this report is a  $\pm 3.4$ dB measurement uncertainty.

### **7.2.3**

#### **Test Result**

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.





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### **7.3 Occupied Bandwidth**

#### **7.3.1 Limit (FCC PART 15 Section 15.247(a)(2), IC-RSS 247 Issue 2, [5.2.1])**

##### **FCC PART 15 Section 15.247(a)(2)**

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz

##### **IC-RSS 247 Issue 2 [5.2.1]**

DTSs include systems that employ digital modulation techniques resulting in spectral characteristics similar to direct sequence systems. The following applies to the bands 902-928 MHz and 2400-2483.5 MHz

<b>Limit</b>
6 dB Bandwidth $\geq$ 500 kHz

#### **7.3.2 Test Procedure**

Follow the conducted test procedure but set the Spectrum Analyzer as below:

For 6dB and 20dB Bandwidth

RBW: 100 kHz

VBW:  $\geq 3 \times$  RBW

Detector: Peak

Trace Mode: Max Hold

- (1) Set analyzer center frequency to center of signal
- (2) Turn on occupied bandwidth measurement mode
- (3) Set measurement to 6db bandwidth (For 20dB bandwidth set measurement to 20dB bandwidth instead)

For 99% Occupied Bandwidth:

RBW:  $1\% \geq \text{OBW} \leq 5\%$

VBW:  $= 3 \times$  RBW

Detector: Peak

Trace Mode: Max Hold

- (1) Set analyzer center frequency to center of signal
- (2) Turn on occupied bandwidth measurement mode

Associated with the Occupied Bandwidth test data in this report is a  $\pm 2.5\%$  measurement uncertainty.

#### **7.3.3 Test Result**

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.



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**7.4 Peak Output Power**

**7.4.1 Limit (FCC PART 15 Section 15.247(b)(3), IC-RSS 247 Issue 2, [5.4.4])**

**FCC PART 15 Section 15.247(b)(3)**

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

**IC-RSS 247 Issue 2, [5.4.4]**

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except provided in Section 5.4(5), the e.i.r.p. shall not exceed 4 W.

Limit
Maximum Average Output Power (Digital Modulation) ≤ 1Watt or 30 dBm

**7.4.2 Test Procedure**

Follow the conducted test procedure but set the Spectrum Analyzer as below:

For BLE and BT:

- a) Set the RBW ≥ DTS bandwidth.
  - b) Set VBW ≥ [3 × RBW].
  - c) Set span ≥ [3 × RBW].
  - d) Sweep time = auto couple.
  - e) Detector = peak.
  - f) Trace mode = max hold.
  - g) Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

For 802.11

- a) Set the RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- b) Set the VBW ≥ [3 × RBW].
- c) Set the span ≥ [1.5 × OBW bandwidth].
- d) Detector = RMS (i.e., power averaging).
- e) Trace Mode: Max Hold

Use the instrument’s band/channel power measurement function with the band limits set equal to the OBW bandwidth edge

For MIMO, the following procedure was used to get the final result:

Once the values for each antenna port are gathered, the results are converted into mW, added together, and then converted back into dB to get the Total Power.

Ex: Ant1 Peak = 10.000dB, Ant 2 Peak = 11.000dB.

Ant 1 mW = 10.000

Ant 2 mW = 12.589

Ant1+2 mW = 22.589 mW

Total Power = 13.539 dB.

Associated with the Maximum Average Output Power test data in this report is a ±5.1dB measurement uncertainty.

**7.4.3 Test Result**

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.



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### **7.5 Maximum Peak Power Spectral Density**

#### **7.5.1 Limit (FCC PART 15 Section 15.247(e), IC-RSS 247 Issue 2, [5.2.2]) FCC PART 15 Section 15.247(e)**

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density

<b>Limit</b>
8 dBm/3 KHz

#### **7.5.2 Test Procedure**

Follow the radiated test procedure but set the Spectrum Analyzer as below:

$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$

$\text{VBW} \geq 3 \times \text{RBW}$

$\text{Span} \geq 1.5 \times \text{DTS Bandwidth}$

Detector: Peak

Sweep Time auto

- 1) Use Peak Marker Function
- 2) If value Exceeds limit, reduce RBW (no less than 3 kHz)

For MIMO, the following procedure was used to get the final result:

Once the values for each antenna port are gathered, the results are converted into mW, added together, and then converted back into dB to get the Total Power.

Ex: Ant1 Peak = 10.000dB, Ant 2 Peak = 11.000dB.

Ant 1 mW = 10.000

Ant 2 mW = 12.589

Ant1+2 mW = 22.589 mW

Total Power = 13.539 dB.

Associated with the Maximum Peak Power Spectral Density test data in this report is a  $\pm 5.1$  dB measurement uncertainty.

#### **7.5.3 Test Result**

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.



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## **7.6 Antenna Requirement**

### **7.6.1 Requirement (FCC PART 15 SECTION 15.203,15.247(b)(4))**

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 shall be considered sufficient to comply with the provisions of this Section.

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

### **7.6.2 Test Result**

The internal antenna is integrated on the main PCB with no consideration for replacement on the EP2000.

The external antenna uses a unique Mini FAKRA female connector to the EUT, thus fulfilling the requirements of this section.



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## **7.7 FHSS Requirements**

### **7.7.1 Requirement (FCC PART 15 SECTION 15.247(a), 15.247(b)(1), 15.247(b)(2), and RSS 247 Issue 2, [5.1, 5.4(b)])**

15.247 (a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

(ii) Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

15.247(b)(1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.



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(2) For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

RSS 247 Issue 2 5.1: The following applies to FHSs in each of the three bands:

a) The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system's radio frequency (RF) bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

b) FHSs shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, FHSs operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an output power no greater than 0.125 W.

c) For FHSs in the band 902-928 MHz: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping channels and the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 20-second period. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping channels and the average time of occupancy on any channel shall not be greater than 0.4 seconds.

5.4(b): For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).



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## **7.7.2 Test Procedure(s)**

### QUANTITY OF HOPPING CHANNEL TEST

1. Set the EUT into hopping mode.
2. Maxhold the trace
3. Allow it to stabilize.

### TIME OF OCCUPANCY (DWELL TIME)

1. Set the EUT into hopping mode.
2. Set the RBW to: 1MHz
3. VBW:  $\geq 3x$  RBW
4. Span: 0Hz
5. Detector: Peak
6. Sweep time: Auto Couple
7. Trace mode: max hold
8. Allow trace to fully stabilize.

### CHANNEL SEPARATION TEST

1. Set the EUT into transmitting mode, maxhold the trace.
2. Allow it to stabilize.
3. Set the adjacent channel of the EUT and maxhold another trace.
4. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

## **7.7.3 Test Result**

The EUT meets the requirements. Please see the datasheets in Appendix A for the measurement results.



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**8. CONCLUSIONS / COMPLIANCE STATEMENT**

Based upon the results contained in this report, Electro Magnetic Test, Inc. has determined that the EP2000, Model: EP-2000 meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C.





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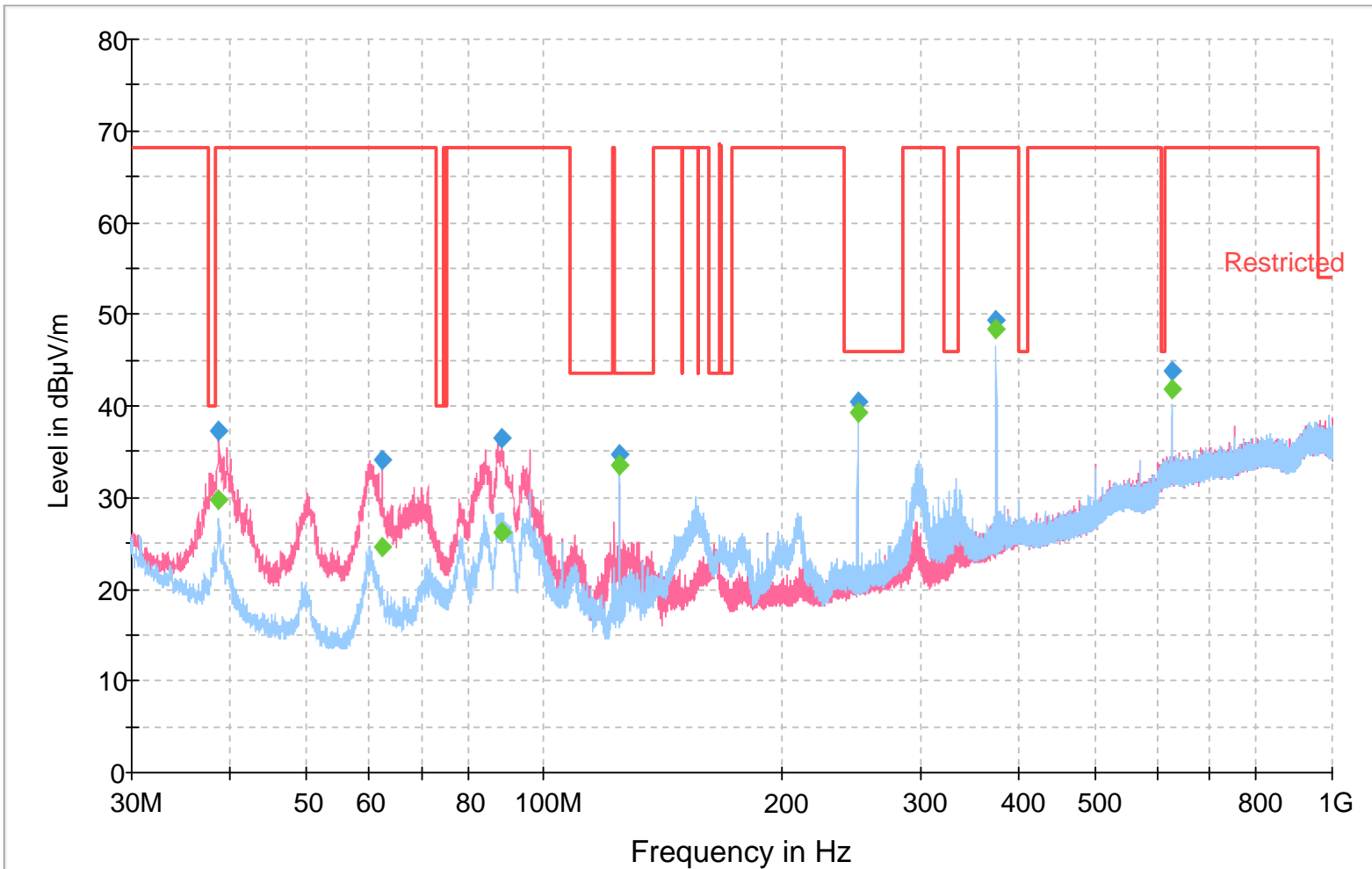
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**APPENDIX A**

***RADIATED AND CONDUCTED EMISSIONS  
DATA SHEETS***

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

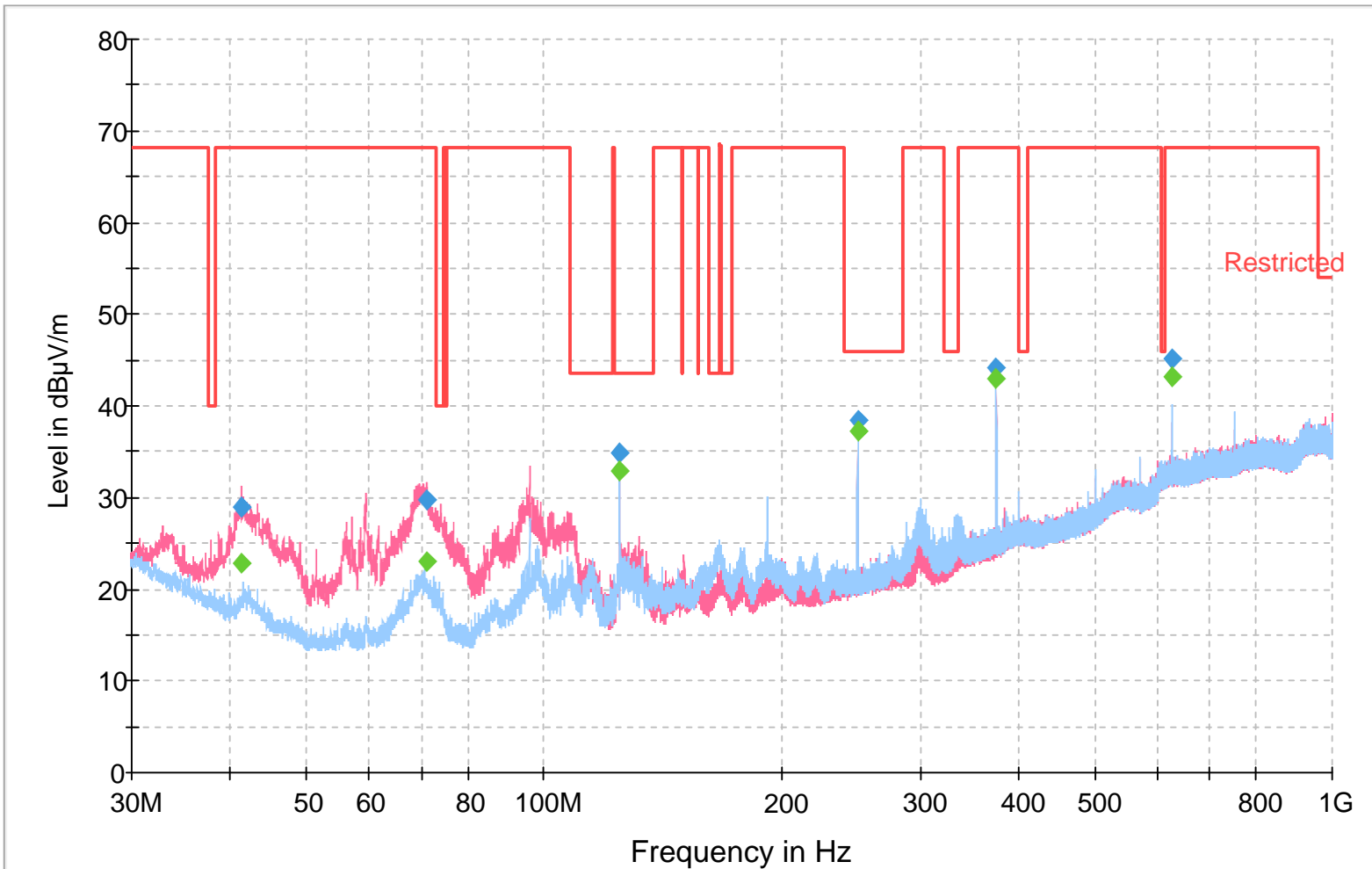
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
38.760000	37.3	100.0	V	98.0	15.5	30.90	68.20	
62.490000	34.2	124.0	V	233.0	11.7	34.00	68.20	
88.530000	36.4	130.0	V	170.0	11.8	31.80	68.20	
125.010000	34.7	164.0	H	99.0	12.6	8.80	43.50	
249.990000	40.3	119.0	H	120.0	17.7	5.70	46.00	
375.000000	49.2	100.0	H	245.0	21.7	19.00	68.20	
624.990000	43.8	114.0	H	252.0	27.8	24.40	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
38.760000	29.8	100.0	V	98.0	15.5	38.40	68.20	
62.490000	24.6	124.0	V	233.0	11.7	43.60	68.20	
88.530000	26.3	130.0	V	170.0	11.8	41.90	68.20	
125.010000	33.5	164.0	H	99.0	12.6	10.00	43.50	
249.990000	39.2	119.0	H	120.0	17.7	6.80	46.00	
375.000000	48.4	100.0	H	245.0	21.7	19.80	68.20	
624.990000	41.8	114.0	H	252.0	27.8	26.40	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

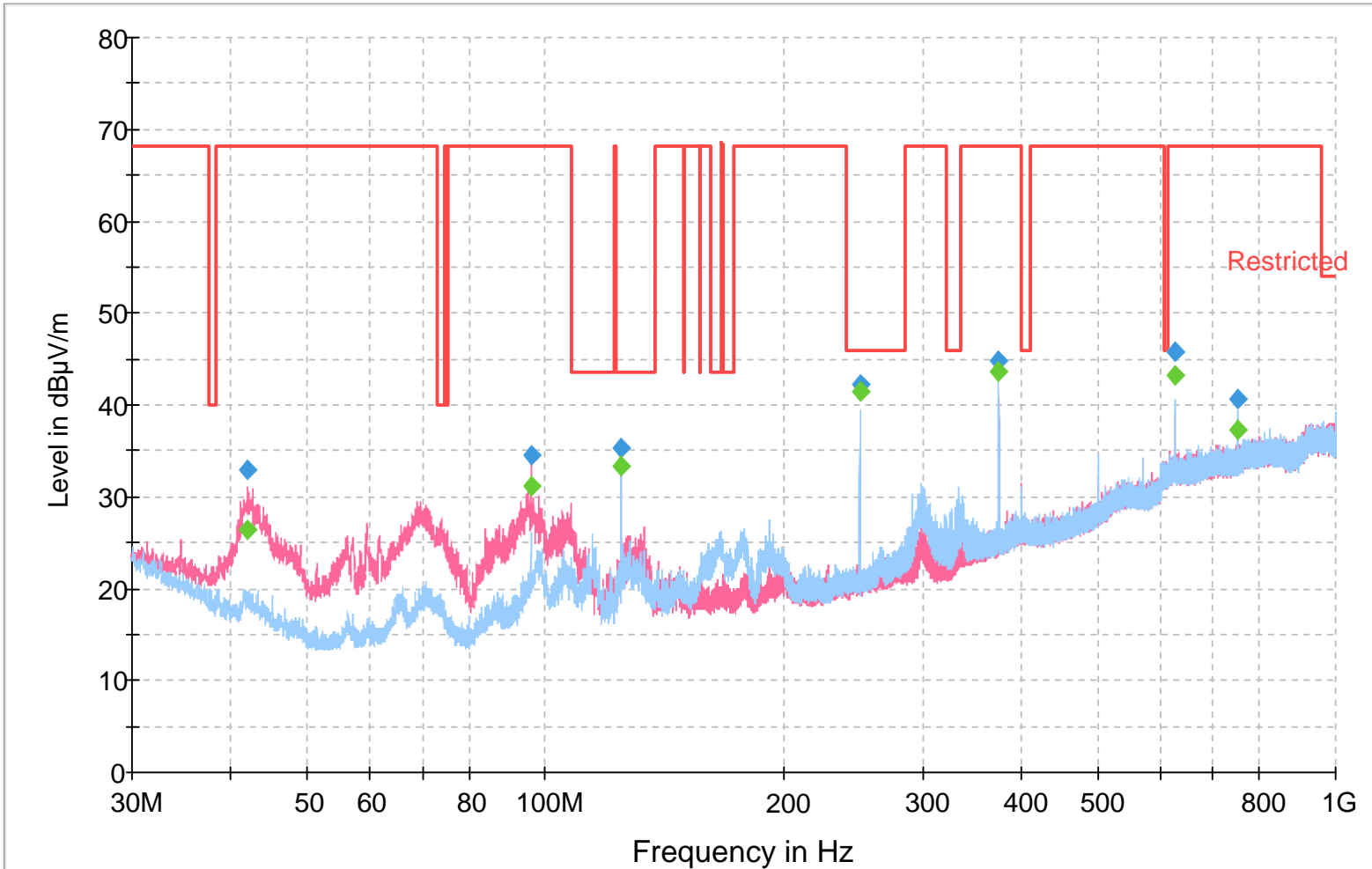
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.400000	28.9	114.0	V	22.0	14.5	39.30	68.20	
71.100000	29.7	100.0	V	70.0	11.8	38.50	68.20	
125.010000	35.0	100.0	V	9.0	12.6	8.50	43.50	
249.990000	38.4	100.0	V	216.0	17.7	7.60	46.00	
375.000000	44.2	149.0	V	161.0	21.7	24.00	68.20	
624.990000	45.1	119.0	H	232.0	27.8	23.10	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.400000	22.9	114.0	V	22.0	14.5	45.30	68.20	
71.100000	23.0	100.0	V	70.0	11.8	45.20	68.20	
125.010000	32.9	100.0	V	9.0	12.6	10.60	43.50	
249.990000	37.2	100.0	V	216.0	17.7	8.80	46.00	
375.000000	43.0	149.0	V	161.0	21.7	25.20	68.20	
624.990000	43.2	119.0	H	232.0	27.8	25.00	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

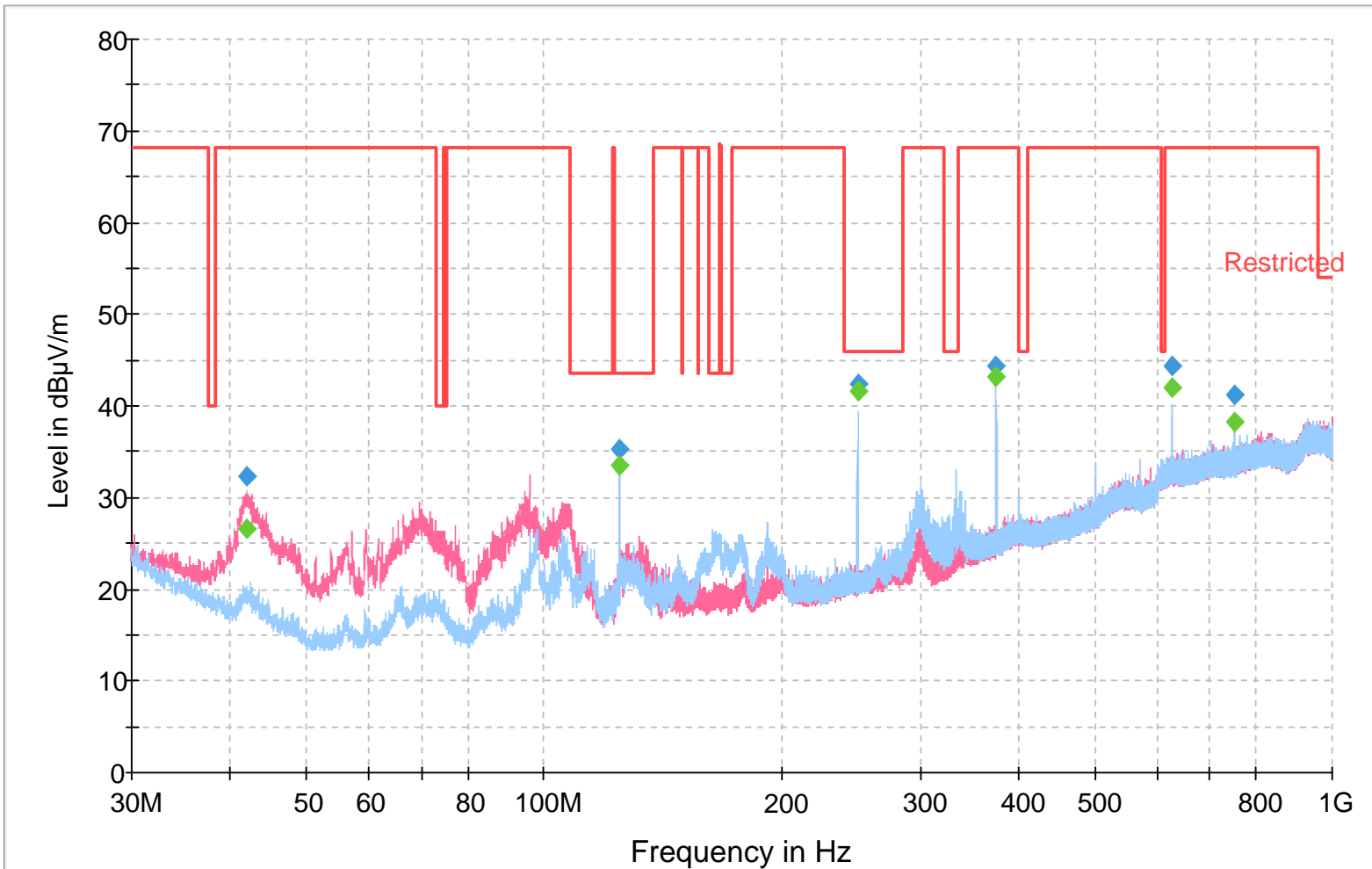
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.120000	32.9	100.0	V	356.0	14.2	35.30	68.20	
96.000000	34.5	120.0	V	218.0	12.6	33.70	68.20	
125.010000	35.3	100.0	V	9.0	12.6	8.20	43.50	
249.990000	42.3	125.0	H	236.0	17.7	3.70	46.00	
375.000000	44.8	142.0	V	161.0	21.7	23.40	68.20	
624.990000	45.7	120.0	H	232.0	27.8	22.50	68.20	
750.030000	40.6	100.0	H	162.0	28.8	27.60	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.120000	26.3	100.0	V	356.0	14.2	41.90	68.20	
96.000000	31.2	120.0	V	218.0	12.6	37.00	68.20	
125.010000	33.3	100.0	V	9.0	12.6	10.20	43.50	
249.990000	41.4	125.0	H	236.0	17.7	4.60	46.00	
375.000000	43.6	142.0	V	161.0	21.7	24.60	68.20	
624.990000	43.2	120.0	H	232.0	27.8	25.00	68.20	
750.030000	37.2	100.0	H	162.0	28.8	31.00	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+



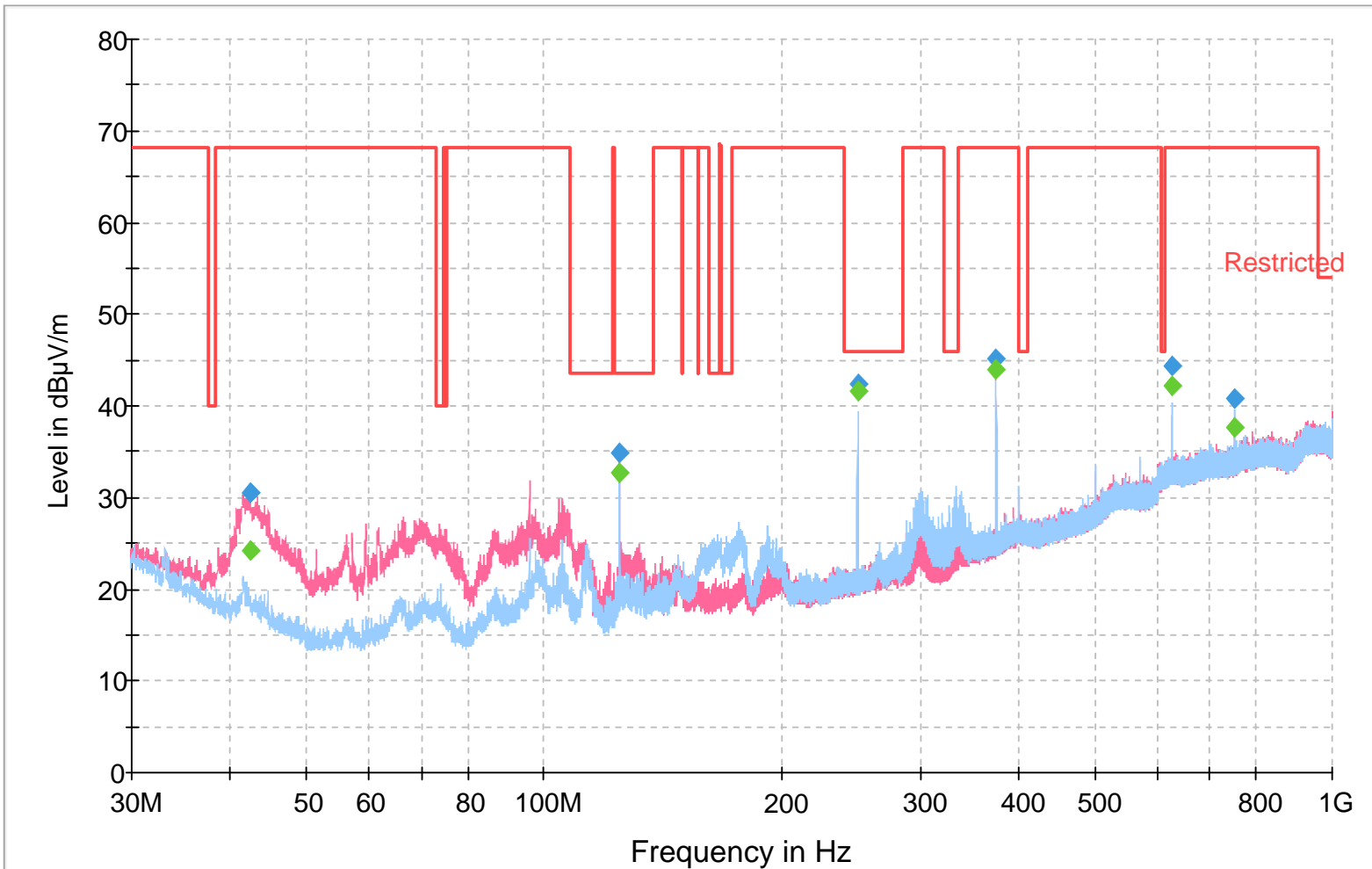
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.970000	32.3	100.0	V	351.0	14.2	35.90	68.20	
125.010000	35.2	100.0	V	9.0	12.6	8.30	43.50	
249.990000	42.4	125.0	H	239.0	17.7	3.60	46.00	
375.000000	44.3	183.0	H	266.0	21.7	23.90	68.20	
624.990000	44.3	100.0	H	238.0	27.8	23.90	68.20	
750.030000	41.1	100.0	H	170.0	28.8	27.10	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.970000	26.6	100.0	V	351.0	14.2	41.60	68.20	
125.010000	33.5	100.0	V	9.0	12.6	10.00	43.50	
249.990000	41.5	125.0	H	239.0	17.7	4.50	46.00	
375.000000	43.1	183.0	H	266.0	21.7	25.10	68.20	
624.990000	41.9	100.0	H	238.0	27.8	26.30	68.20	
750.030000	38.2	100.0	H	170.0	28.8	30.00	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

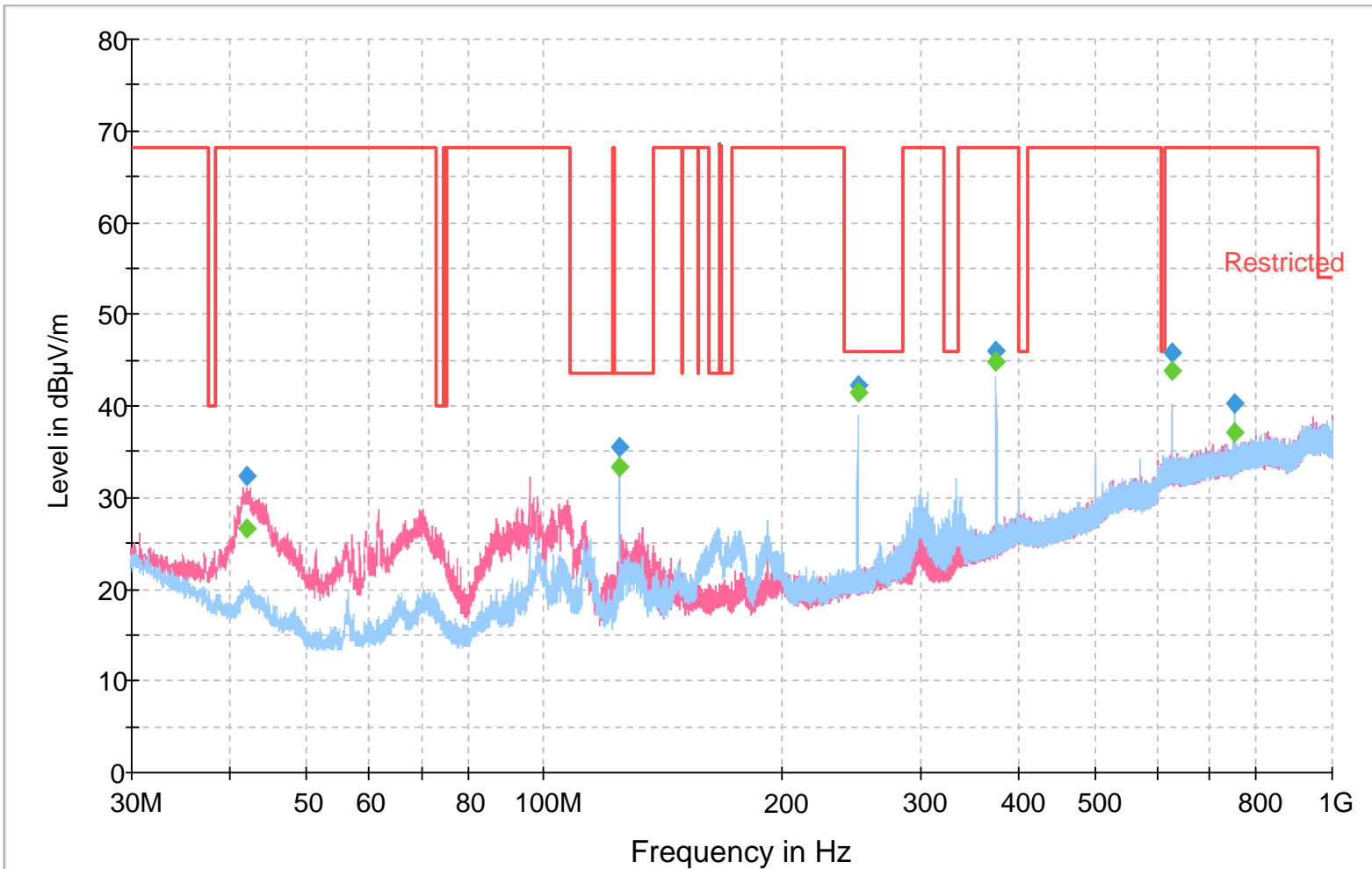
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.510000	30.5	100.0	V	316.0	14.0	37.70	68.20	
125.010000	34.8	100.0	V	16.0	12.6	8.70	43.50	
249.990000	42.4	126.0	H	245.0	17.7	3.60	46.00	
375.000000	45.1	147.0	V	156.0	21.7	23.10	68.20	
624.990000	44.4	100.0	H	239.0	27.8	23.80	68.20	
750.030000	40.7	100.0	H	162.0	28.8	27.50	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.510000	24.2	100.0	V	316.0	14.0	44.00	68.20	
125.010000	32.8	100.0	V	16.0	12.6	10.70	43.50	
249.990000	41.6	126.0	H	245.0	17.7	4.40	46.00	
375.000000	44.0	147.0	V	156.0	21.7	24.20	68.20	
624.990000	42.2	100.0	H	239.0	27.8	26.00	68.20	
750.030000	37.6	100.0	H	162.0	28.8	30.60	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

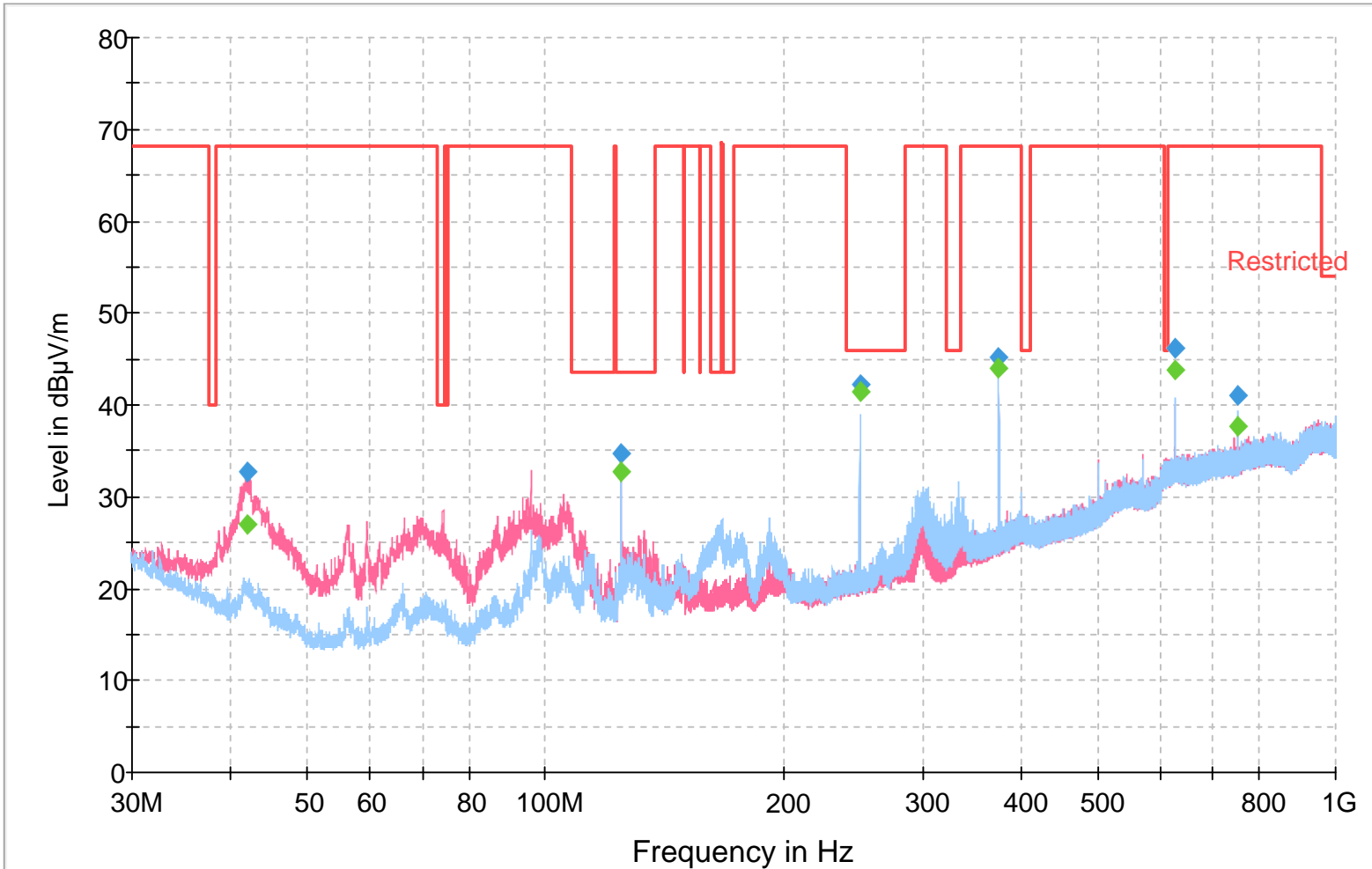
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.000000	32.4	100.0	V	297.0	14.2	35.80	68.20	
125.010000	35.4	100.0	V	15.0	12.6	8.10	43.50	
249.990000	42.1	126.0	H	238.0	17.7	3.90	46.00	
375.000000	45.9	136.0	H	275.0	21.7	22.30	68.20	
624.990000	45.7	113.0	H	238.0	27.8	22.50	68.20	
750.030000	40.2	100.0	H	162.0	28.8	28.00	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.000000	26.7	100.0	V	297.0	14.2	41.50	68.20	
125.010000	33.4	100.0	V	15.0	12.6	10.10	43.50	
249.990000	41.3	126.0	H	238.0	17.7	4.70	46.00	
375.000000	44.8	136.0	H	275.0	21.7	23.40	68.20	
624.990000	43.8	113.0	H	238.0	27.8	24.40	68.20	
750.030000	37.1	100.0	H	162.0	28.8	31.10	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

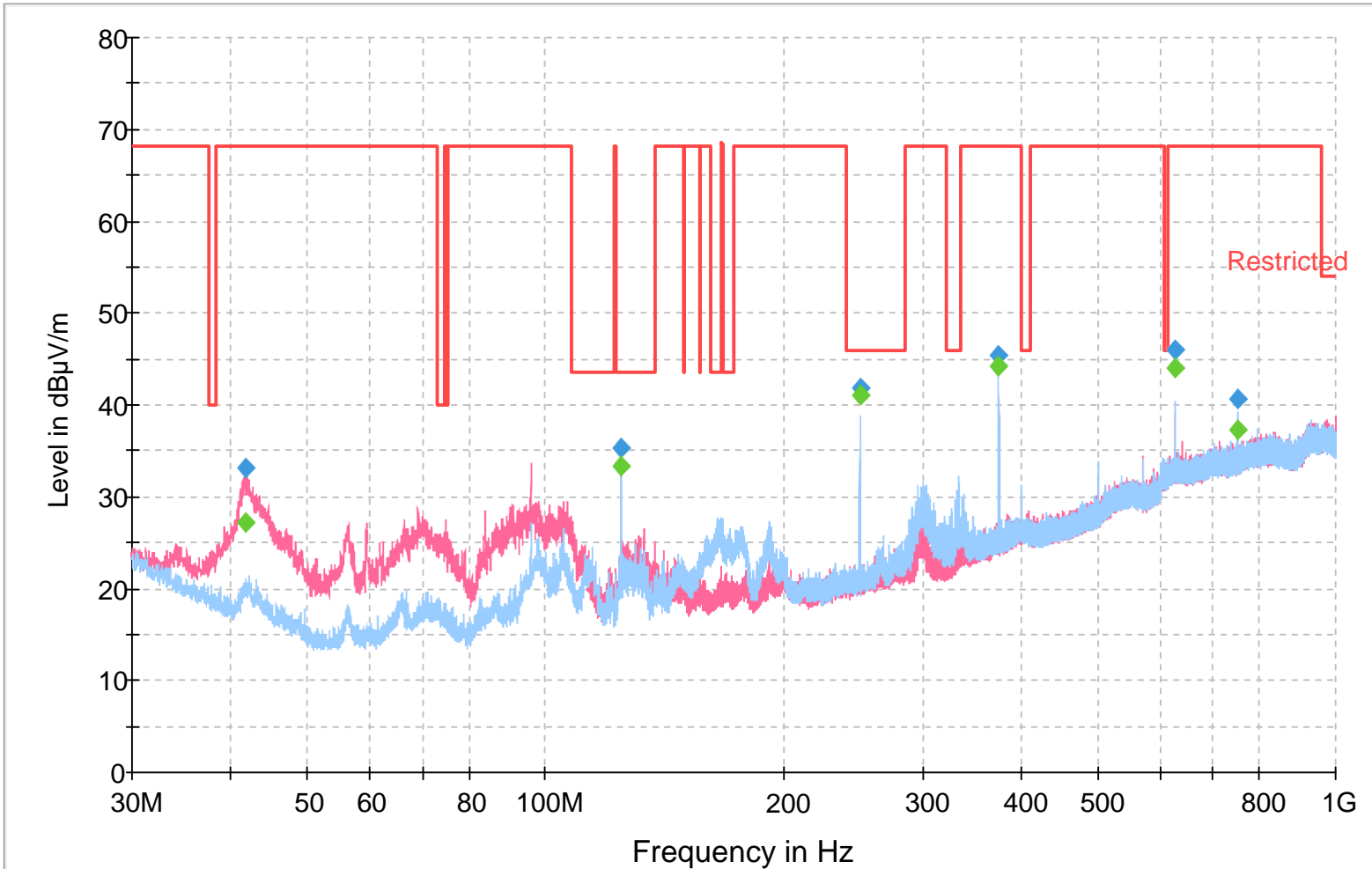
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.180000	32.6	100.0	V	85.0	14.2	35.60	68.20	
125.010000	34.6	100.0	V	9.0	12.6	8.90	43.50	
249.990000	42.2	114.0	H	245.0	17.7	3.80	46.00	
375.000000	45.1	147.0	H	270.0	21.7	23.10	68.20	
624.990000	46.1	114.0	H	240.0	27.8	22.10	68.20	
750.030000	41.0	100.0	H	163.0	28.8	27.20	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.180000	26.9	100.0	V	85.0	14.2	41.30	68.20	
125.010000	32.7	100.0	V	9.0	12.6	10.80	43.50	
249.990000	41.3	114.0	H	245.0	17.7	4.70	46.00	
375.000000	44.0	147.0	H	270.0	21.7	24.20	68.20	
624.990000	43.7	114.0	H	240.0	27.8	24.50	68.20	
750.030000	37.7	100.0	H	163.0	28.8	30.50	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+



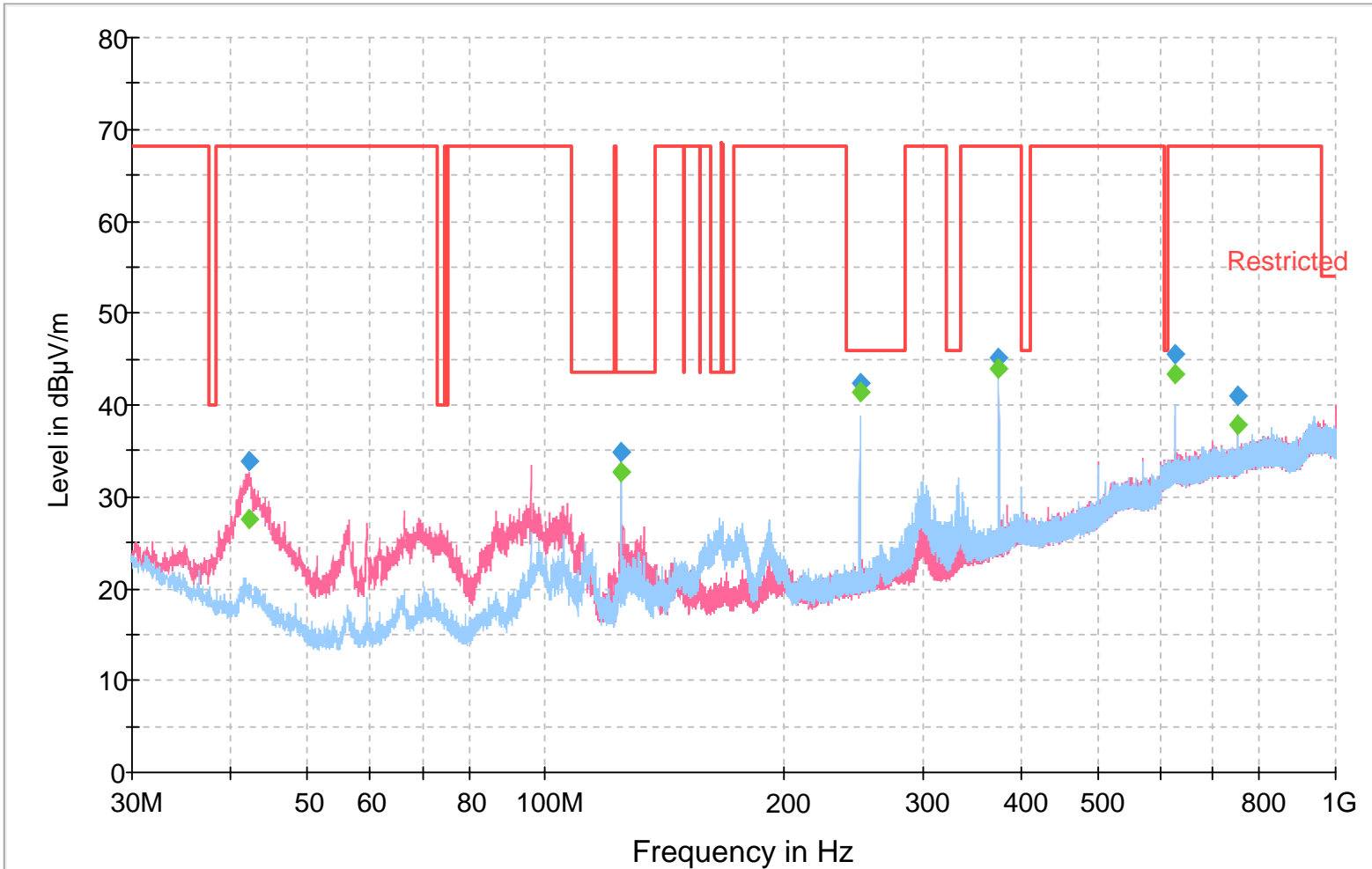
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.880000	33.1	100.0	V	329.0	14.3	35.10	68.20	
125.010000	35.3	100.0	V	15.0	12.6	8.20	43.50	
249.990000	41.9	132.0	H	238.0	17.7	4.10	46.00	
375.000000	45.2	143.0	H	270.0	21.7	23.00	68.20	
624.990000	46.0	119.0	H	239.0	27.8	22.20	68.20	
750.030000	40.5	100.0	H	161.0	28.8	27.70	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.880000	27.1	100.0	V	329.0	14.3	41.10	68.20	
125.010000	33.3	100.0	V	15.0	12.6	10.20	43.50	
249.990000	41.0	132.0	H	238.0	17.7	5.00	46.00	
375.000000	44.1	143.0	H	270.0	21.7	24.10	68.20	
624.990000	43.9	119.0	H	239.0	27.8	24.30	68.20	
750.030000	37.2	100.0	H	161.0	28.8	31.00	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

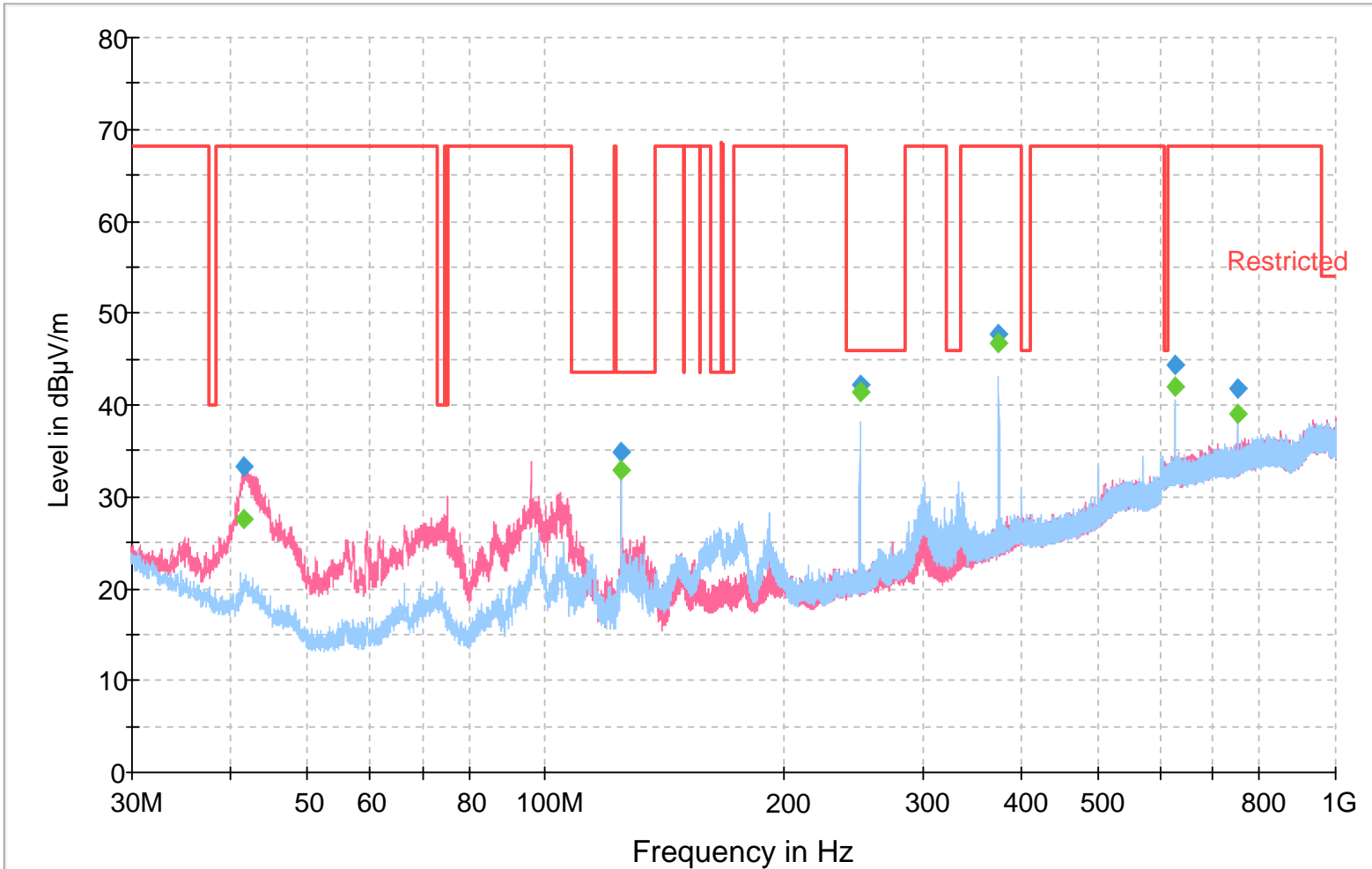
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.300000	33.9	100.0	V	344.0	14.1	34.30	68.20	
125.010000	34.9	100.0	V	9.0	12.6	8.60	43.50	
249.990000	42.3	119.0	H	240.0	17.7	3.70	46.00	
375.000000	45.0	131.0	V	162.0	21.7	23.20	68.20	
624.990000	45.6	114.0	H	232.0	27.8	22.60	68.20	
750.030000	41.0	100.0	H	163.0	28.8	27.20	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.300000	27.6	100.0	V	344.0	14.1	40.60	68.20	
125.010000	32.7	100.0	V	9.0	12.6	10.80	43.50	
249.990000	41.3	119.0	H	240.0	17.7	4.70	46.00	
375.000000	43.9	131.0	V	162.0	21.7	24.30	68.20	
624.990000	43.4	114.0	H	232.0	27.8	24.80	68.20	
750.030000	37.8	100.0	H	163.0	28.8	30.40	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

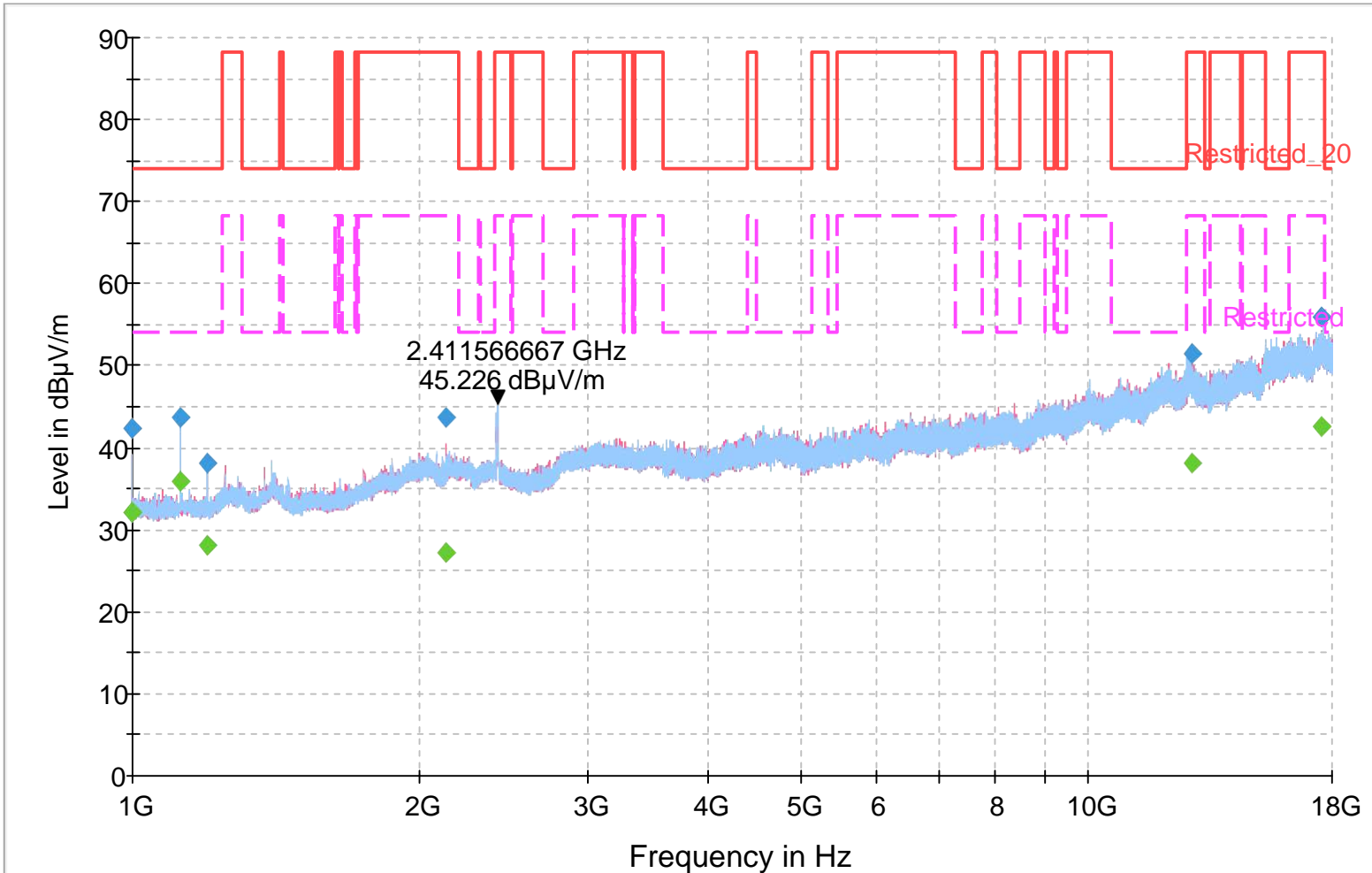
**Final Result 1**

Frequency (MHz)	MaxPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
41.640000	33.3	100.0	V	43.0	14.4	34.90	68.20	
125.010000	34.9	100.0	V	15.0	12.6	8.60	43.50	
249.990000	42.1	126.0	H	239.0	17.7	3.90	46.00	
375.000000	47.8	100.0	H	293.0	21.7	20.40	68.20	
624.990000	44.3	100.0	H	234.0	27.8	23.90	68.20	
750.030000	41.7	100.0	H	168.0	28.8	26.50	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
41.640000	27.6	100.0	V	43.0	14.4	40.60	68.20	
125.010000	32.9	100.0	V	15.0	12.6	10.60	43.50	
249.990000	41.3	126.0	H	239.0	17.7	4.70	46.00	
375.000000	46.6	100.0	H	293.0	21.7	21.60	68.20	
624.990000	41.9	100.0	H	234.0	27.8	26.30	68.20	
750.030000	39.0	100.0	H	168.0	28.8	29.20	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

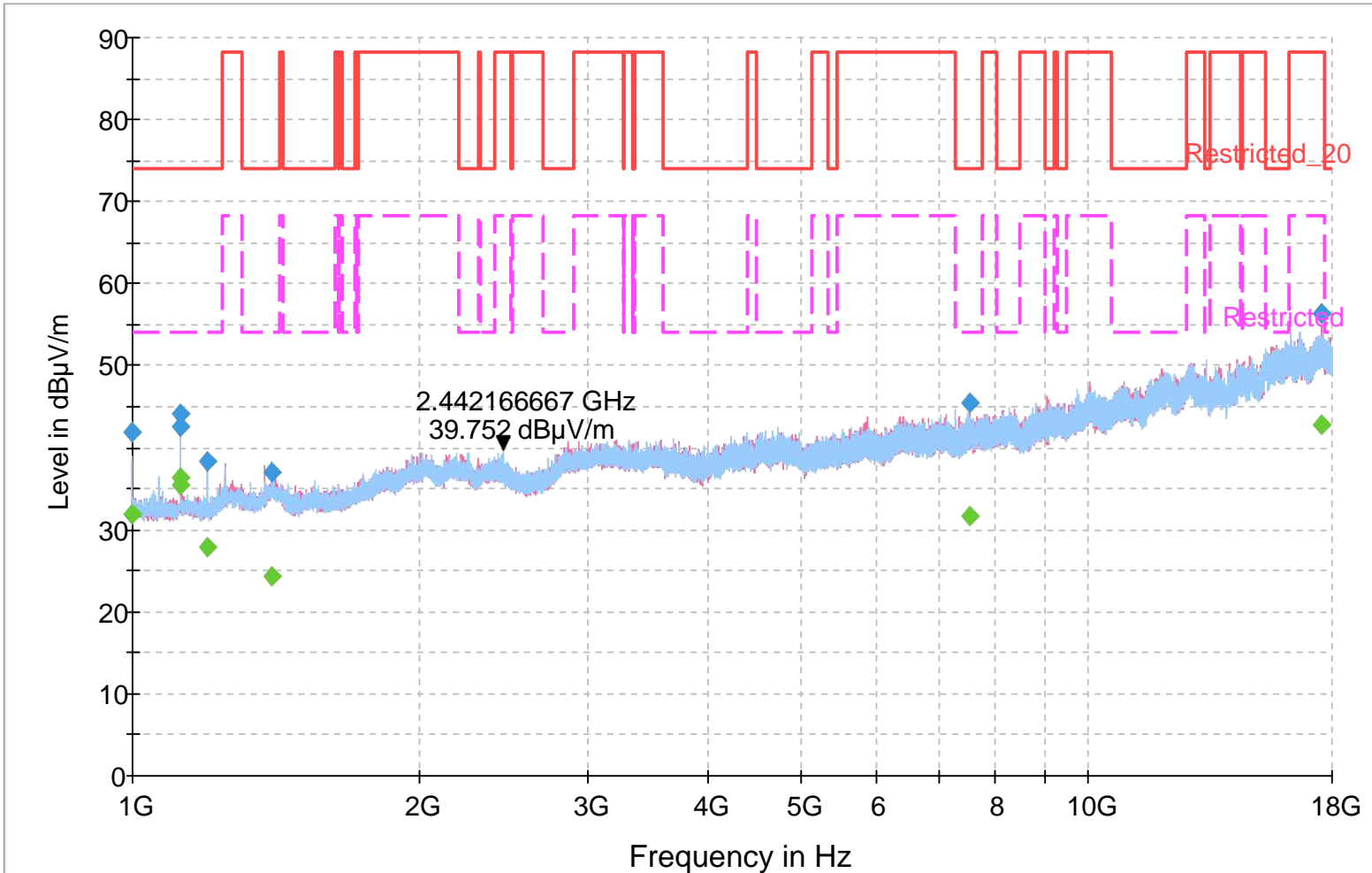
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.4	251.0	V	295.0	-4.3	31.60	74.00	
1124.666667	43.6	283.0	V	224.0	-4.5	30.40	74.00	
1199.466667	38.2	251.0	V	184.0	-3.9	35.80	74.00	
2132.766667	43.7	396.0	V	201.0	1.0	44.50	88.20	
12852.400000	51.4	189.0	V	48.0	18.9	36.80	88.20	
17537.033333	55.8	356.0	V	99.0	23.3	32.40	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	32.2	251.0	V	295.0	-4.3	21.80	54.00	
1124.666667	35.9	283.0	V	224.0	-4.5	18.10	54.00	
1199.466667	28.2	251.0	V	184.0	-3.9	25.80	54.00	
2132.766667	27.2	396.0	V	201.0	1.0	41.00	68.20	
12852.400000	38.2	189.0	V	48.0	18.9	30.00	68.20	
17537.033333	42.6	356.0	V	99.0	23.3	25.60	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG



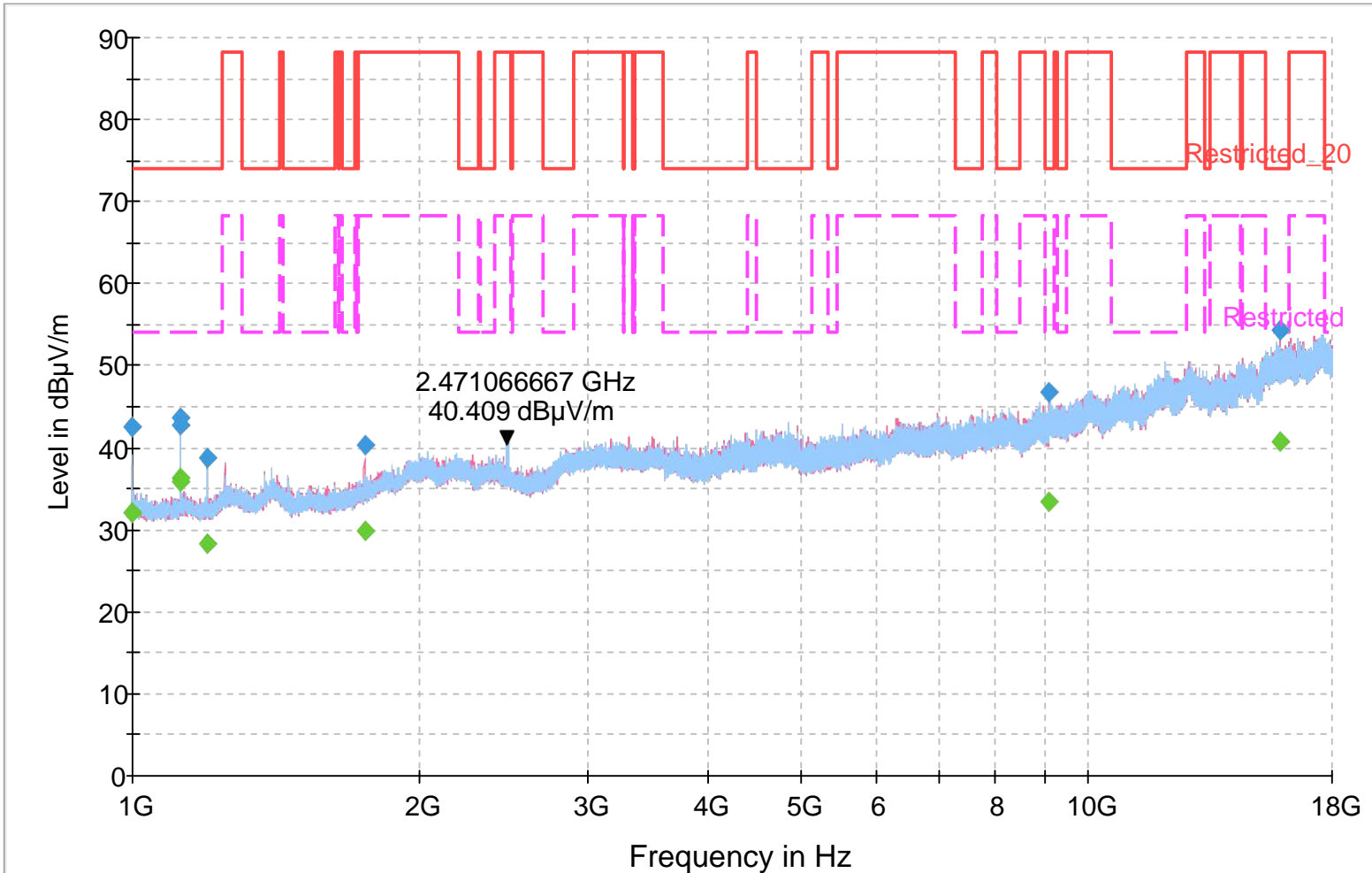
**Final Result 1**

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1000.000000	42.0	202.0	H	206.0	-4.3	32.00	74.00	
1124.666667	44.1	287.0	V	220.0	-4.5	29.90	74.00	
1124.666667	42.5	168.0	H	209.0	-4.5	31.50	74.00	
1199.466667	38.3	257.0	V	182.0	-3.9	35.70	74.00	
1399.500000	37.1	369.0	V	320.0	-2.4	36.90	74.00	
7531.400000	45.3	242.0	V	119.0	10.0	28.70	74.00	
17564.800000	56.4	316.0	V	109.0	23.4	31.80	88.20	

**Final Result 2**

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1000.000000	32.0	202.0	H	206.0	-4.3	22.00	54.00	
1124.666667	36.4	287.0	V	220.0	-4.5	17.60	54.00	
1124.666667	35.5	168.0	H	209.0	-4.5	18.50	54.00	
1199.466667	28.0	257.0	V	182.0	-3.9	26.00	54.00	
1399.500000	24.4	369.0	V	320.0	-2.4	29.60	54.00	
7531.400000	31.7	242.0	V	119.0	10.0	22.30	54.00	
17564.800000	42.7	316.0	V	109.0	23.4	25.50	68.20	

FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20  
— Preview Result 1H-PK+  
— Restricted  
— Final Result 1-PK+  
— Preview Result 1V-PK+  
— Final Result 2-AVG

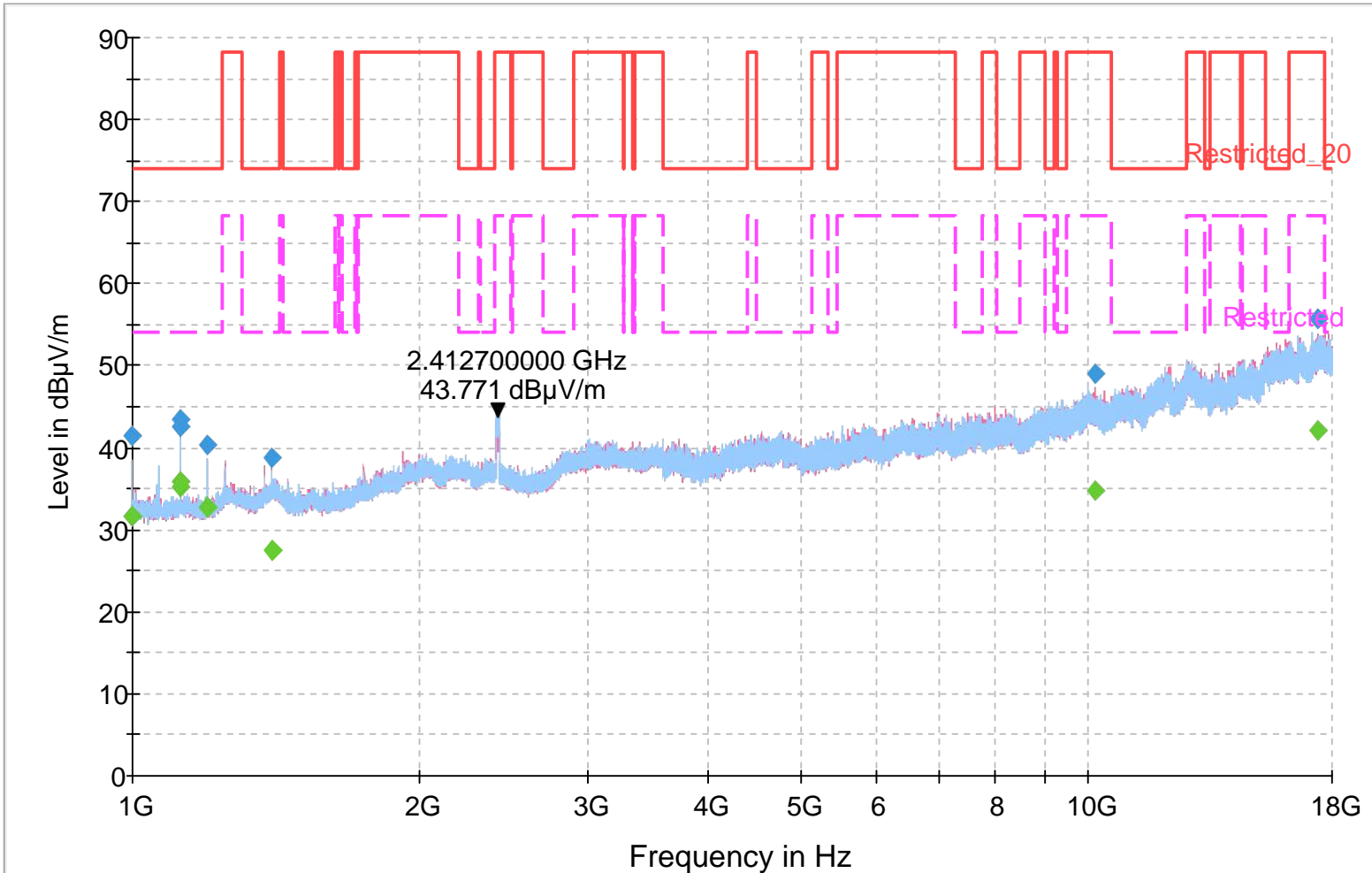
**Final Result 1**

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1000.000000	42.5	197.0	H	216.0	-4.3	31.50	74.00	
1124.666667	43.6	288.0	V	224.0	-4.5	30.40	74.00	
1124.666667	42.9	160.0	H	215.0	-4.5	31.10	74.00	
1199.466667	38.8	262.0	V	184.0	-3.9	35.20	74.00	
1750.266667	40.4	205.0	V	187.0	-2.0	47.80	88.20	
9109.566667	46.7	342.0	V	275.0	12.5	27.30	74.00	
15849.500000	54.3	305.0	V	144.0	21.8	19.70	74.00	

**Final Result 2**

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1000.000000	32.1	197.0	H	216.0	-4.3	21.90	54.00	
1124.666667	35.9	288.0	V	224.0	-4.5	18.10	54.00	
1124.666667	36.3	160.0	H	215.0	-4.5	17.70	54.00	
1199.466667	28.3	262.0	V	184.0	-3.9	25.70	54.00	
1750.266667	29.9	205.0	V	187.0	-2.0	38.30	68.20	
9109.566667	33.5	342.0	V	275.0	12.5	20.50	54.00	
15849.500000	40.7	305.0	V	144.0	21.8	13.30	54.00	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

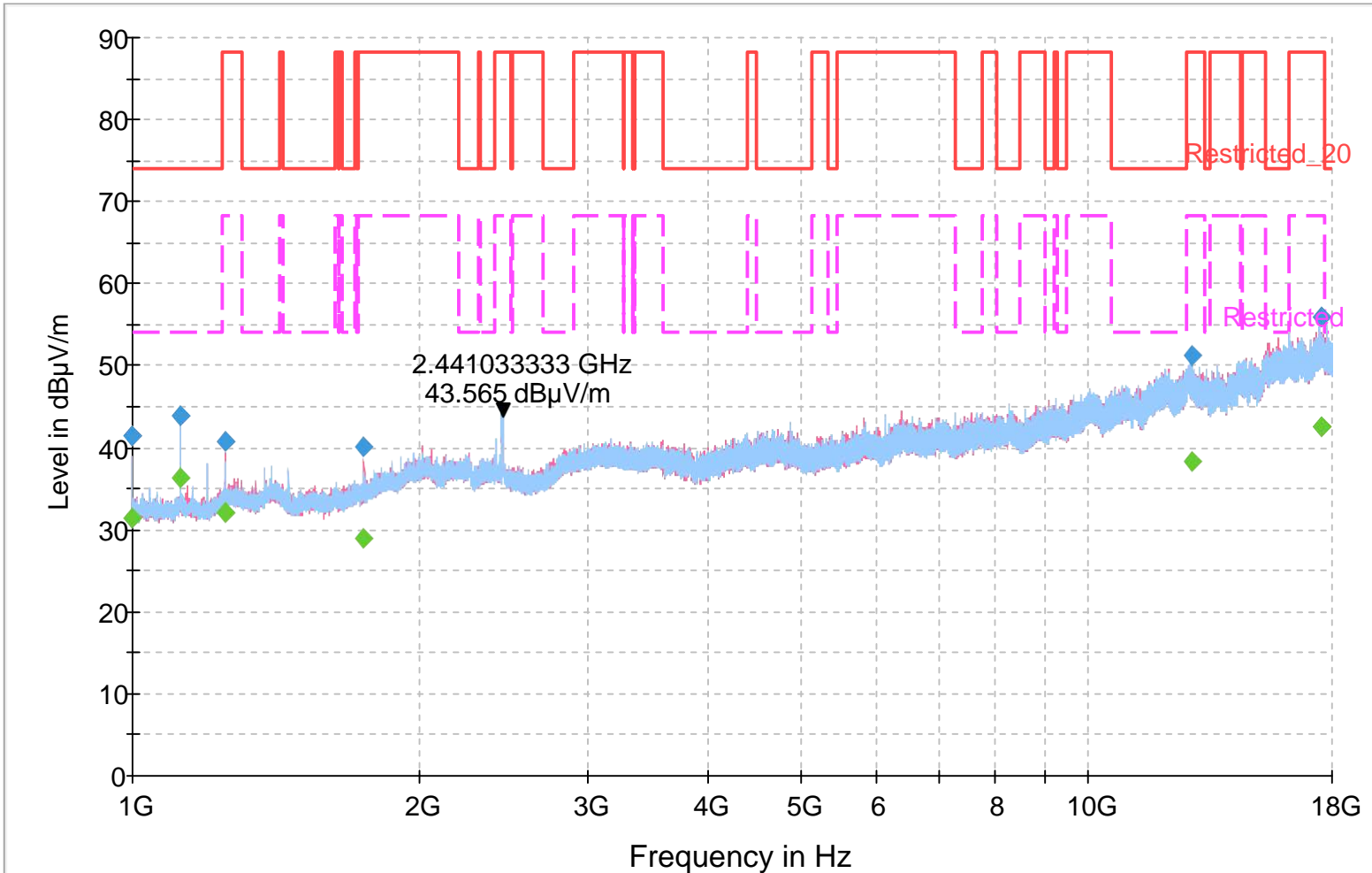
**Final Result 1**

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1000.000000	41.5	277.0	V	290.0	-4.3	32.50	74.00	
1124.666667	43.5	275.0	V	225.0	-4.5	30.50	74.00	
1124.666667	42.5	168.0	H	208.0	-4.5	31.50	74.00	
1200.033333	40.3	100.0	H	133.0	-3.9	33.70	74.00	
1399.500000	38.8	308.0	V	211.0	-2.4	35.20	74.00	
10168.666667	49.0	192.0	V	236.0	14.5	39.20	88.20	
17352.300000	55.6	286.0	V	90.0	23.0	32.60	88.20	

**Final Result 2**

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1000.000000	31.6	277.0	V	290.0	-4.3	22.40	54.00	
1124.666667	35.8	275.0	V	225.0	-4.5	18.20	54.00	
1124.666667	35.3	168.0	H	208.0	-4.5	18.70	54.00	
1200.033333	32.9	100.0	H	133.0	-3.9	21.10	54.00	
1399.500000	27.6	308.0	V	211.0	-2.4	26.40	54.00	
10168.666667	34.9	192.0	V	236.0	14.5	33.30	68.20	
17352.300000	42.2	286.0	V	90.0	23.0	26.00	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

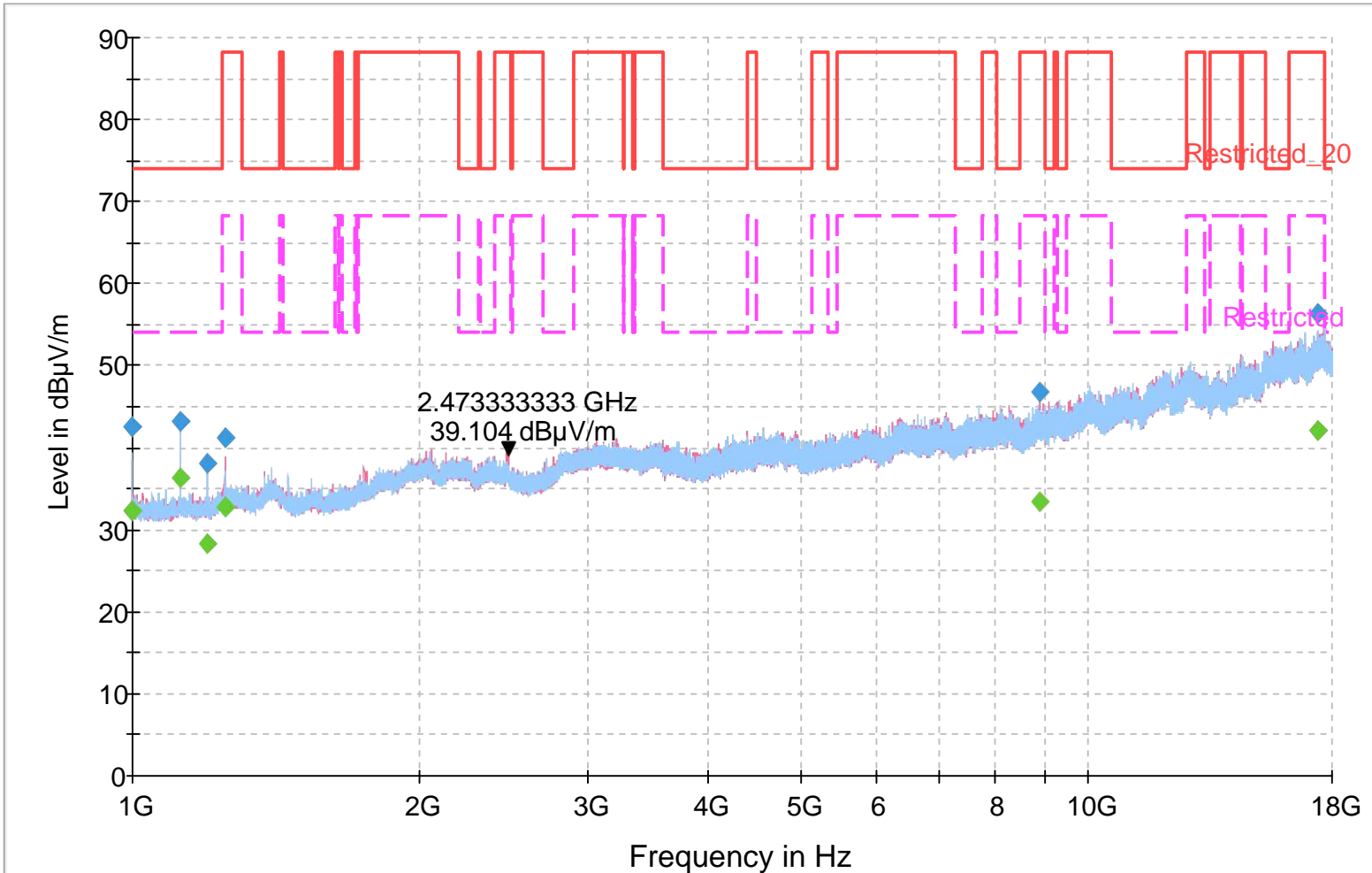
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	41.5	341.0	V	181.0	-4.3	32.50	74.00	
1124.666667	43.9	281.0	V	222.0	-4.5	30.10	74.00	
1249.900000	40.7	243.0	V	178.0	-3.2	47.50	88.20	
1749.700000	40.2	195.0	V	188.0	-2.0	48.00	88.20	
12843.900000	51.3	361.0	V	155.0	18.9	36.90	88.20	
17516.633333	56.0	315.0	V	141.0	23.2	32.20	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	31.5	341.0	V	181.0	-4.3	22.50	54.00	
1124.666667	36.4	281.0	V	222.0	-4.5	17.60	54.00	
1249.900000	32.1	243.0	V	178.0	-3.2	36.10	68.20	
1749.700000	29.0	195.0	V	188.0	-2.0	39.20	68.20	
12843.900000	38.3	361.0	V	155.0	18.9	29.90	68.20	
17516.633333	42.5	315.0	V	141.0	23.2	25.70	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20      - - - Restricted      - - - Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG



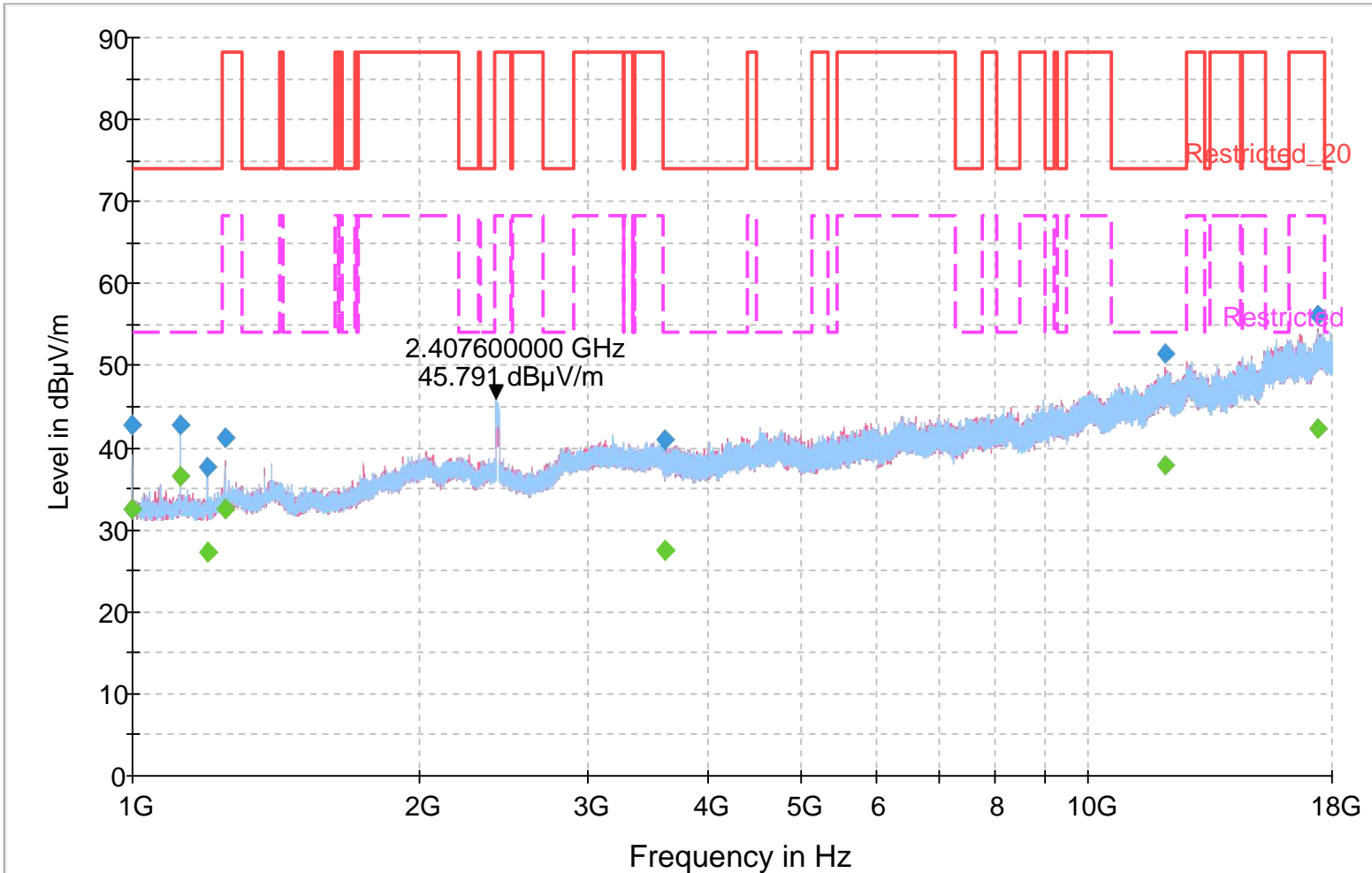
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.5	198.0	H	210.0	-4.3	31.50	74.00	
1124.666667	43.3	164.0	H	214.0	-4.5	30.70	74.00	
1199.466667	38.1	270.0	V	189.0	-3.9	35.90	74.00	
1249.900000	41.3	256.0	V	170.0	-3.2	46.90	88.20	
8902.166667	46.7	374.0	V	359.0	12.3	41.50	88.20	
17368.733333	56.4	302.0	H	39.0	23.1	31.80	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	32.3	198.0	H	210.0	-4.3	21.70	54.00	
1124.666667	36.4	164.0	H	214.0	-4.5	17.60	54.00	
1199.466667	28.5	270.0	V	189.0	-3.9	25.50	54.00	
1249.900000	32.8	256.0	V	170.0	-3.2	35.40	68.20	
8902.166667	33.5	374.0	V	359.0	12.3	34.70	68.20	
17368.733333	42.2	302.0	H	39.0	23.1	26.00	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

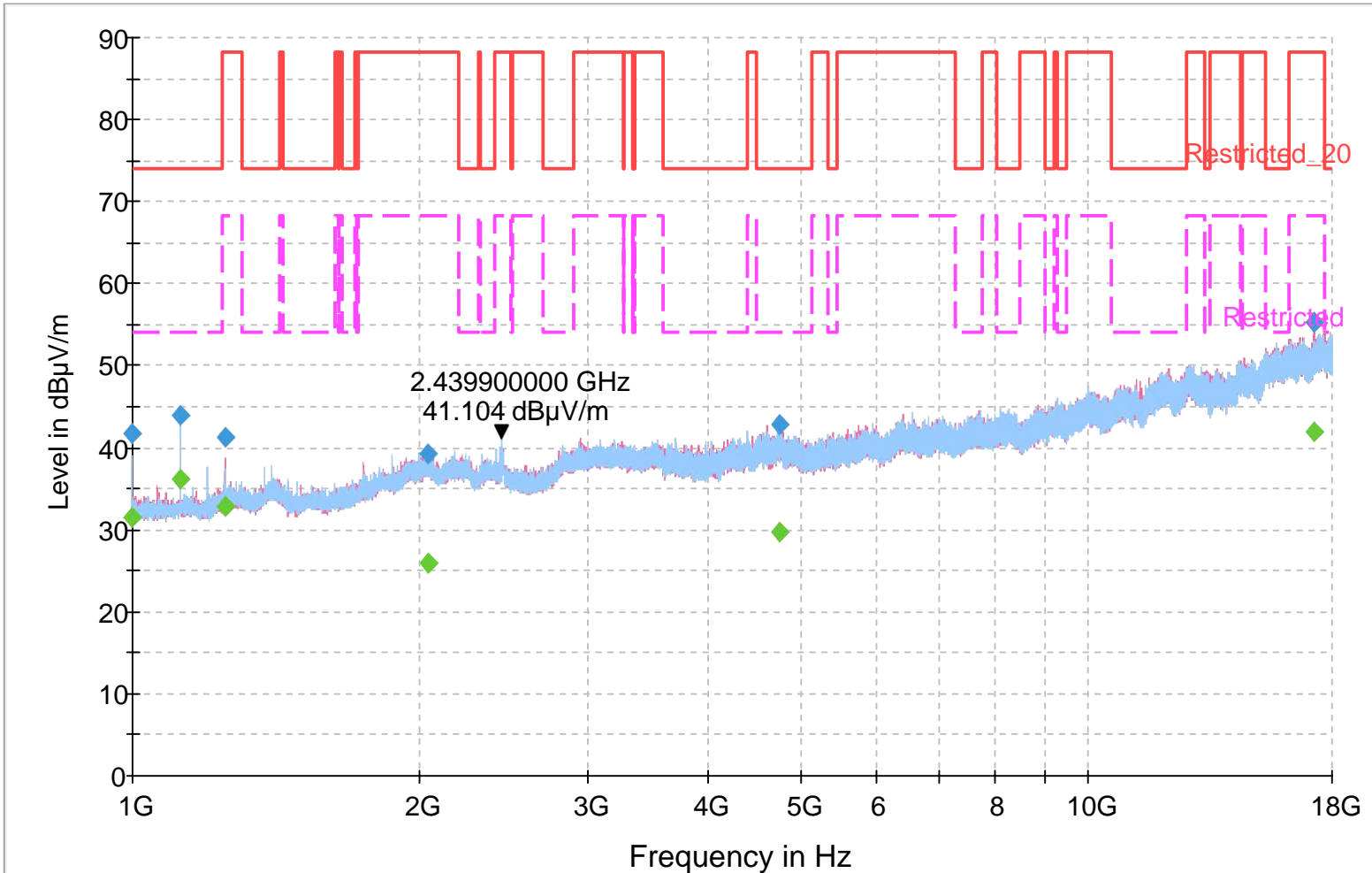
**Final Result 1**

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1000.000000	42.7	211.0	H	215.0	-4.3	31.30	74.00	
1124.666667	42.9	159.0	H	220.0	-4.5	31.10	74.00	
1199.466667	37.7	266.0	V	208.0	-3.9	36.30	74.00	
1249.900000	41.3	255.0	V	169.0	-3.2	46.90	88.20	
3611.200000	41.0	299.0	V	52.0	3.7	33.00	74.00	
12053.966667	51.4	125.0	V	329.0	17.5	22.60	74.00	
17382.900000	56.0	182.0	V	43.0	23.1	32.20	88.20	

**Final Result 2**

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
1000.000000	32.6	211.0	H	215.0	-4.3	21.40	54.00	
1124.666667	36.5	159.0	H	220.0	-4.5	17.50	54.00	
1199.466667	27.2	266.0	V	208.0	-3.9	26.80	54.00	
1249.900000	32.6	255.0	V	169.0	-3.2	35.60	68.20	
3611.200000	27.6	299.0	V	52.0	3.7	26.40	54.00	
12053.966667	37.9	125.0	V	329.0	17.5	16.10	54.00	
17382.900000	42.4	182.0	V	43.0	23.1	25.80	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

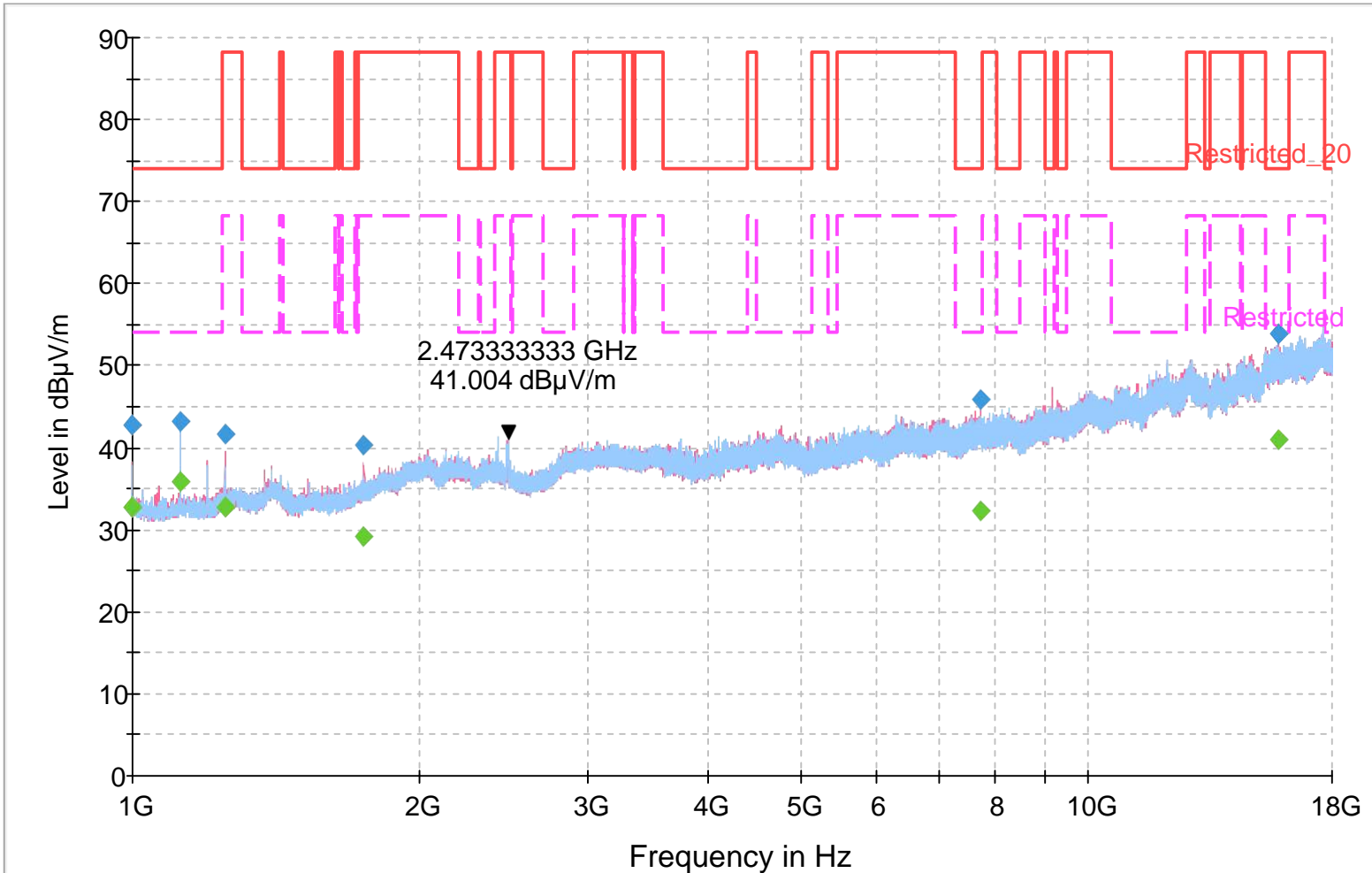
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	41.7	185.0	H	212.0	-4.3	32.30	74.00	
1124.666667	43.8	280.0	V	224.0	-4.5	30.20	74.00	
1249.900000	41.2	248.0	V	167.0	-3.2	47.00	88.20	
2042.666667	39.2	139.0	V	132.0	1.0	49.00	88.20	
4747.933333	42.8	174.0	V	43.0	5.6	31.20	74.00	
17257.100000	55.2	240.0	V	61.0	22.9	33.00	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	31.6	185.0	H	212.0	-4.3	22.40	54.00	
1124.666667	36.2	280.0	V	224.0	-4.5	17.80	54.00	
1249.900000	32.7	248.0	V	167.0	-3.2	35.50	68.20	
2042.666667	25.9	139.0	V	132.0	1.0	42.30	68.20	
4747.933333	29.6	174.0	V	43.0	5.6	24.40	54.00	
17257.100000	41.9	240.0	V	61.0	22.9	26.30	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

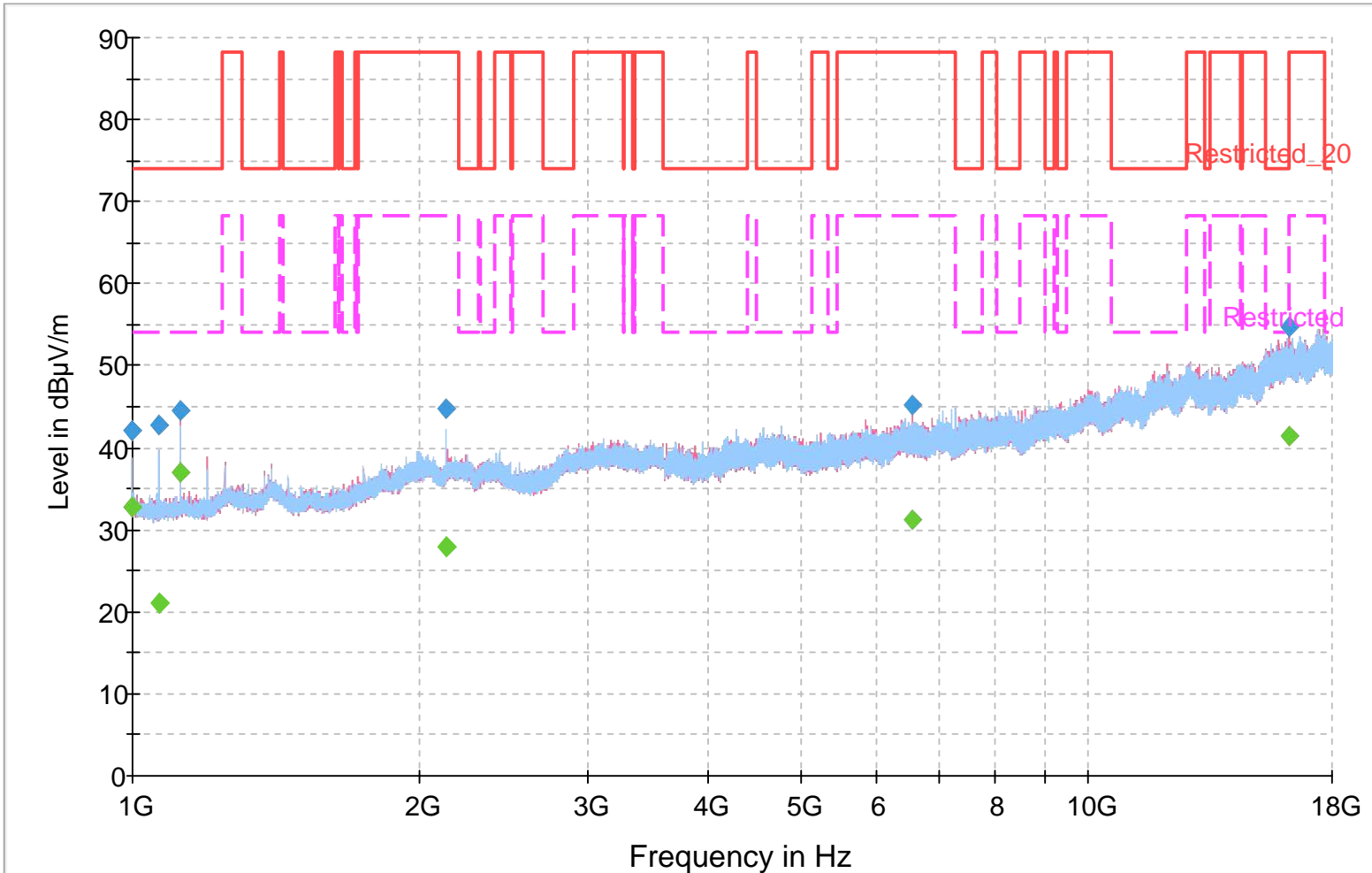
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.7	247.0	V	290.0	-4.3	31.30	74.00	
1124.666667	43.1	164.0	H	211.0	-4.5	30.90	74.00	
1249.900000	41.7	254.0	V	168.0	-3.2	46.50	88.20	
1749.700000	40.3	216.0	V	187.0	-2.0	47.90	88.20	
7709.333333	45.9	293.0	V	1.0	10.3	28.10	74.00	
15807.000000	54.0	261.0	V	136.0	21.7	20.00	74.00	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	32.9	247.0	V	290.0	-4.3	21.10	54.00	
1124.666667	36.0	164.0	H	211.0	-4.5	18.00	54.00	
1249.900000	32.9	254.0	V	168.0	-3.2	35.30	68.20	
1749.700000	29.3	216.0	V	187.0	-2.0	39.00	68.20	
7709.333333	32.4	293.0	V	1.0	10.3	21.60	54.00	
15807.000000	40.9	261.0	V	136.0	21.7	13.10	54.00	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG



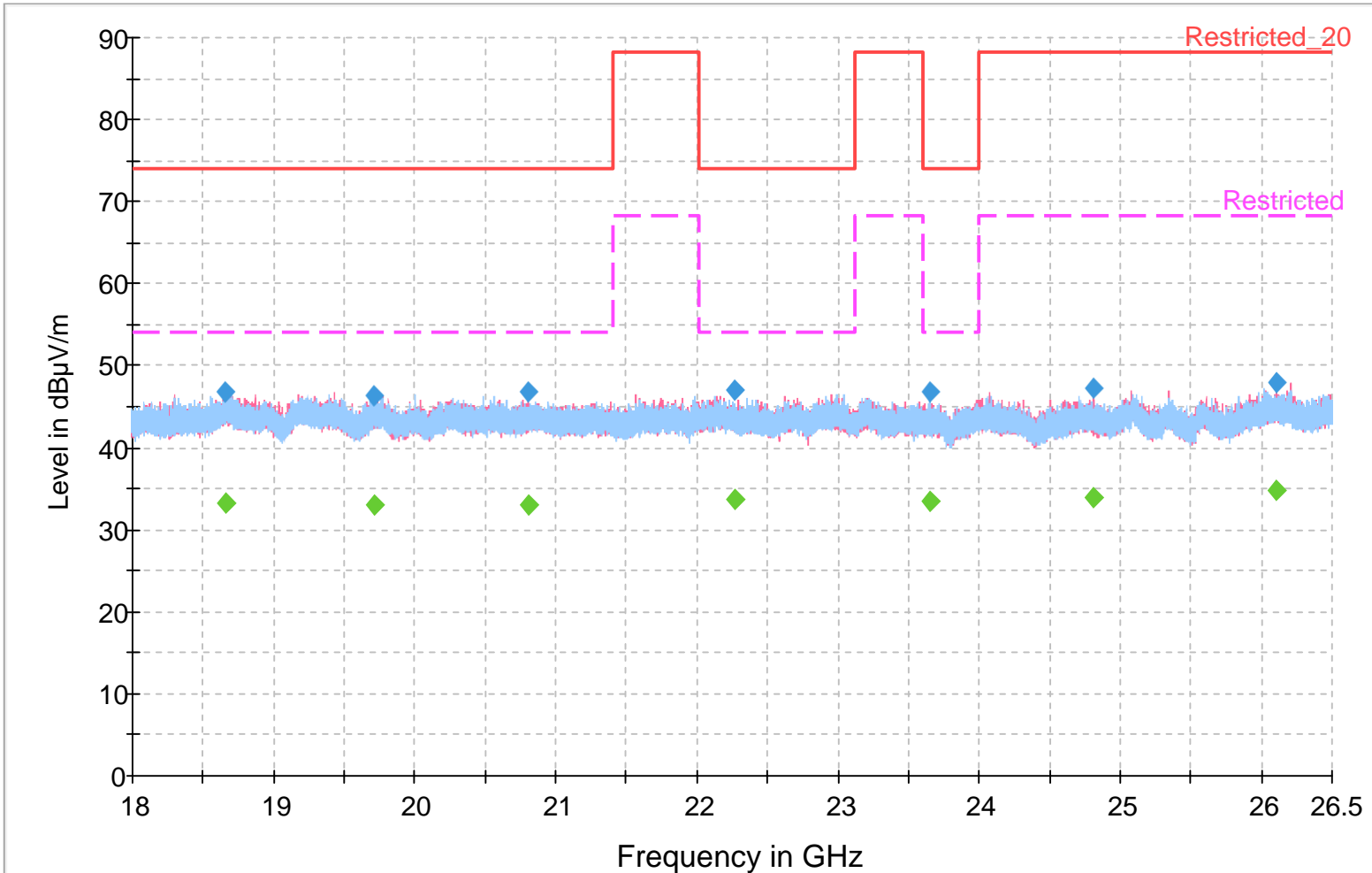
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.2	243.0	V	290.0	-4.3	31.80	74.00	
1066.300000	42.9	156.0	H	220.0	-4.5	31.10	74.00	
1124.666667	44.5	288.0	V	220.0	-4.5	29.50	74.00	
2132.766667	44.8	138.0	H	203.0	1.0	43.40	88.20	
6543.700000	45.1	358.0	V	156.0	8.7	43.10	88.20	
16235.400000	54.9	117.0	V	58.0	22.1	33.30	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	32.7	243.0	V	290.0	-4.3	21.30	54.00	
1066.300000	21.0	156.0	H	220.0	-4.5	33.00	54.00	
1124.666667	36.9	288.0	V	220.0	-4.5	17.10	54.00	
2132.766667	27.9	138.0	H	203.0	1.0	40.30	68.20	
6543.700000	31.3	358.0	V	156.0	8.7	36.90	68.20	
16235.400000	41.5	117.0	V	58.0	22.1	26.70	68.20	

### FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

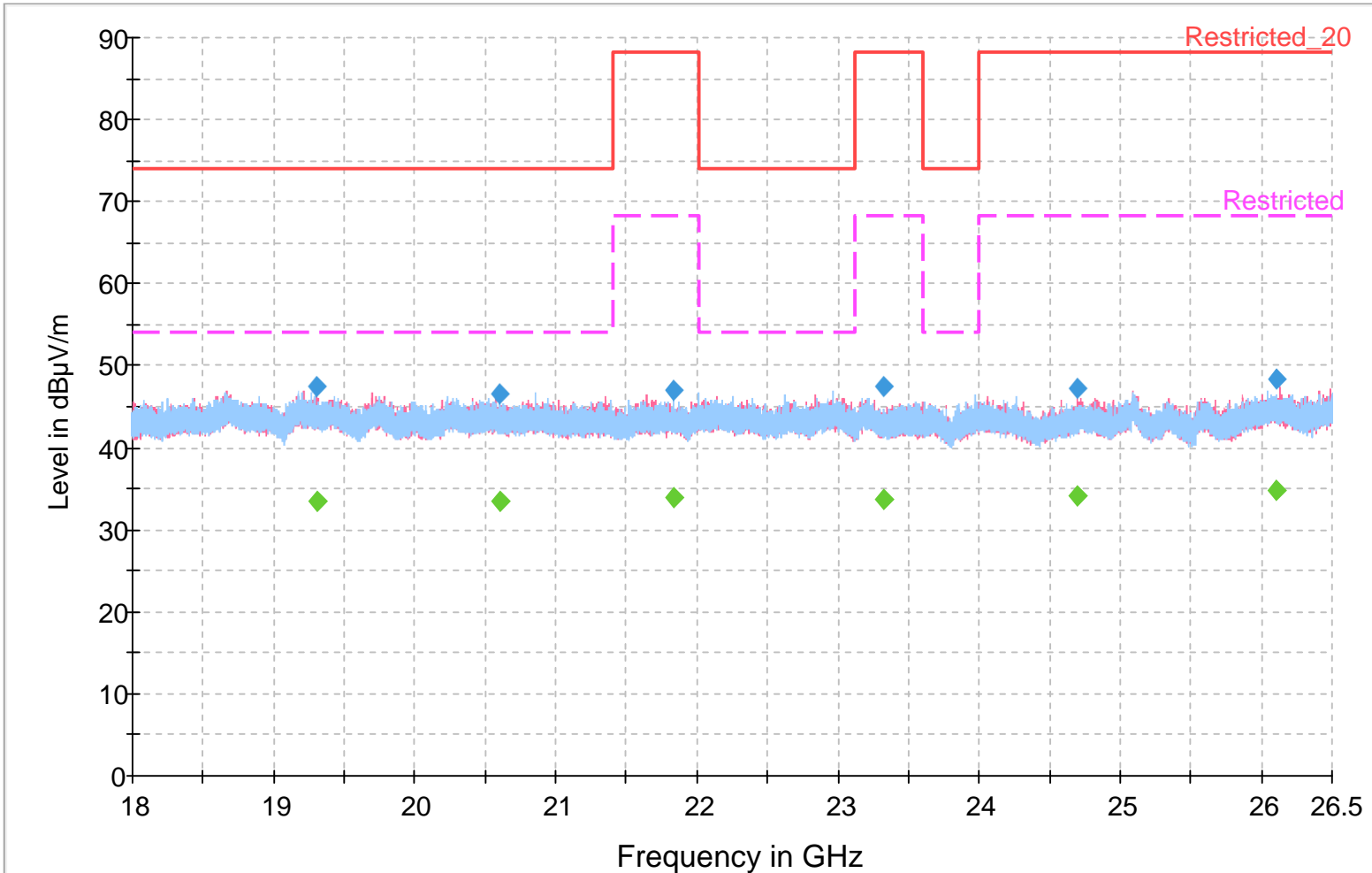
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18655.350000	46.8	204.0	H	1.0	9.7	27.20	74.00	
19719.550000	46.3	133.0	V	7.0	9.8	27.70	74.00	
20804.575000	46.7	223.0	V	221.0	10.0	27.30	74.00	
22267.425000	47.0	133.0	H	11.0	10.6	27.00	74.00	
23657.600000	46.7	179.0	H	337.0	10.5	27.30	74.00	
24805.100000	47.2	100.0	V	289.0	10.6	41.00	88.20	
26101.350000	47.9	288.0	V	258.0	11.5	40.30	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18655.350000	33.2	204.0	H	1.0	9.7	20.80	54.00	
19719.550000	33.1	133.0	V	7.0	9.8	20.90	54.00	
20804.575000	33.1	223.0	V	221.0	10.0	20.90	54.00	
22267.425000	33.8	133.0	H	11.0	10.6	20.20	54.00	
23657.600000	33.5	179.0	H	337.0	10.5	20.50	54.00	
24805.100000	33.9	100.0	V	289.0	10.6	34.30	68.20	
26101.350000	34.8	288.0	V	258.0	11.5	33.40	68.20	

### FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

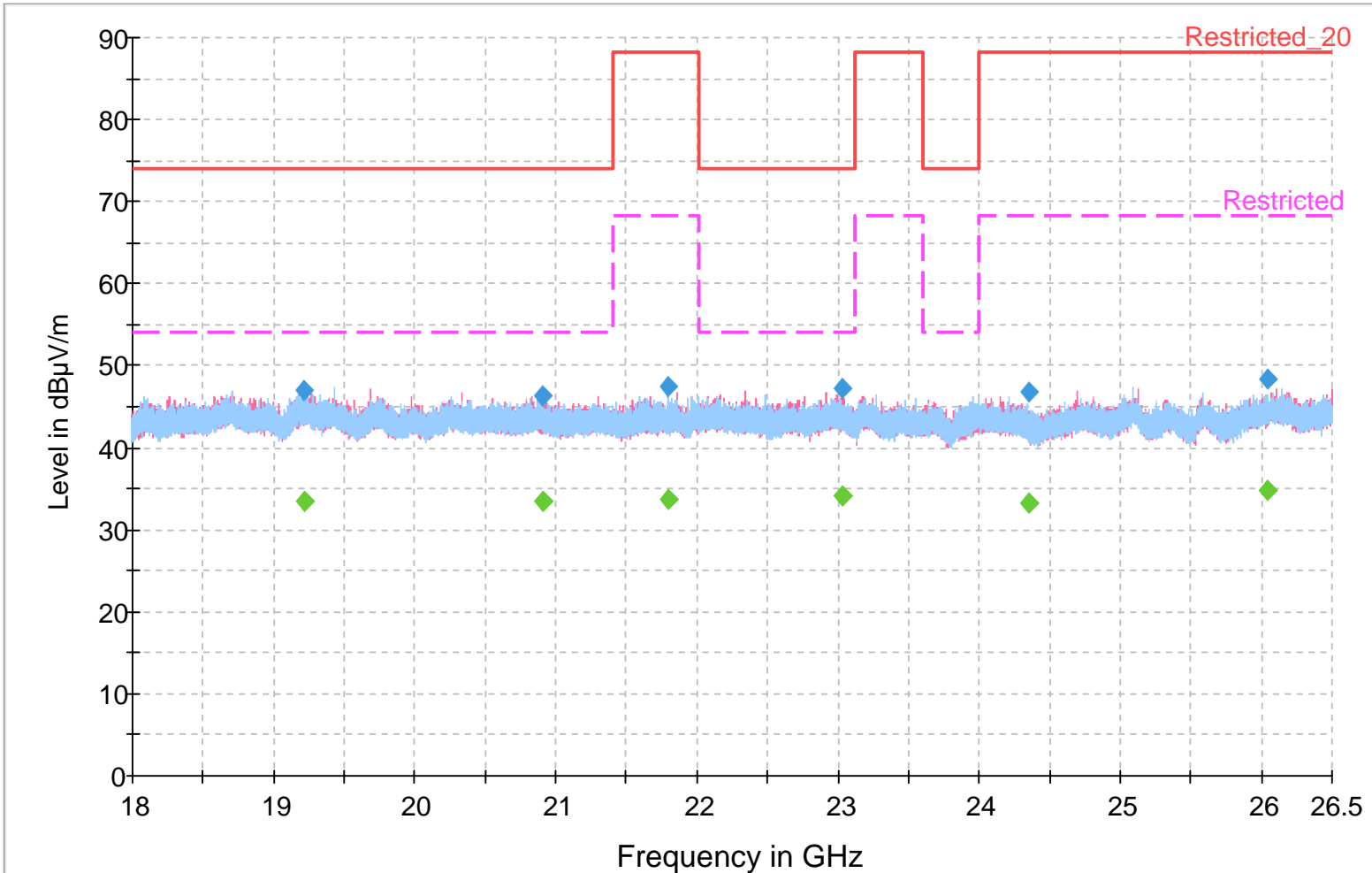
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19303.050000	47.4	256.0	V	323.0	10.2	26.60	74.00	
20610.775000	46.5	208.0	V	239.0	10.2	27.50	74.00	
21841.150000	47.1	247.0	H	141.0	10.5	41.10	88.20	
23318.875000	47.3	224.0	V	224.0	10.6	40.90	88.20	
24692.475000	47.3	192.0	V	58.0	10.7	40.90	88.20	
26110.700000	48.3	300.0	H	167.0	11.5	39.90	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19303.050000	33.5	256.0	V	323.0	10.2	20.50	54.00	
20610.775000	33.6	208.0	V	239.0	10.2	20.40	54.00	
21841.150000	33.8	247.0	H	141.0	10.5	34.40	68.20	
23318.875000	33.7	224.0	V	224.0	10.6	34.50	68.20	
24692.475000	34.2	192.0	V	58.0	10.7	34.00	68.20	
26110.700000	34.8	300.0	H	167.0	11.5	33.40	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      - - - Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

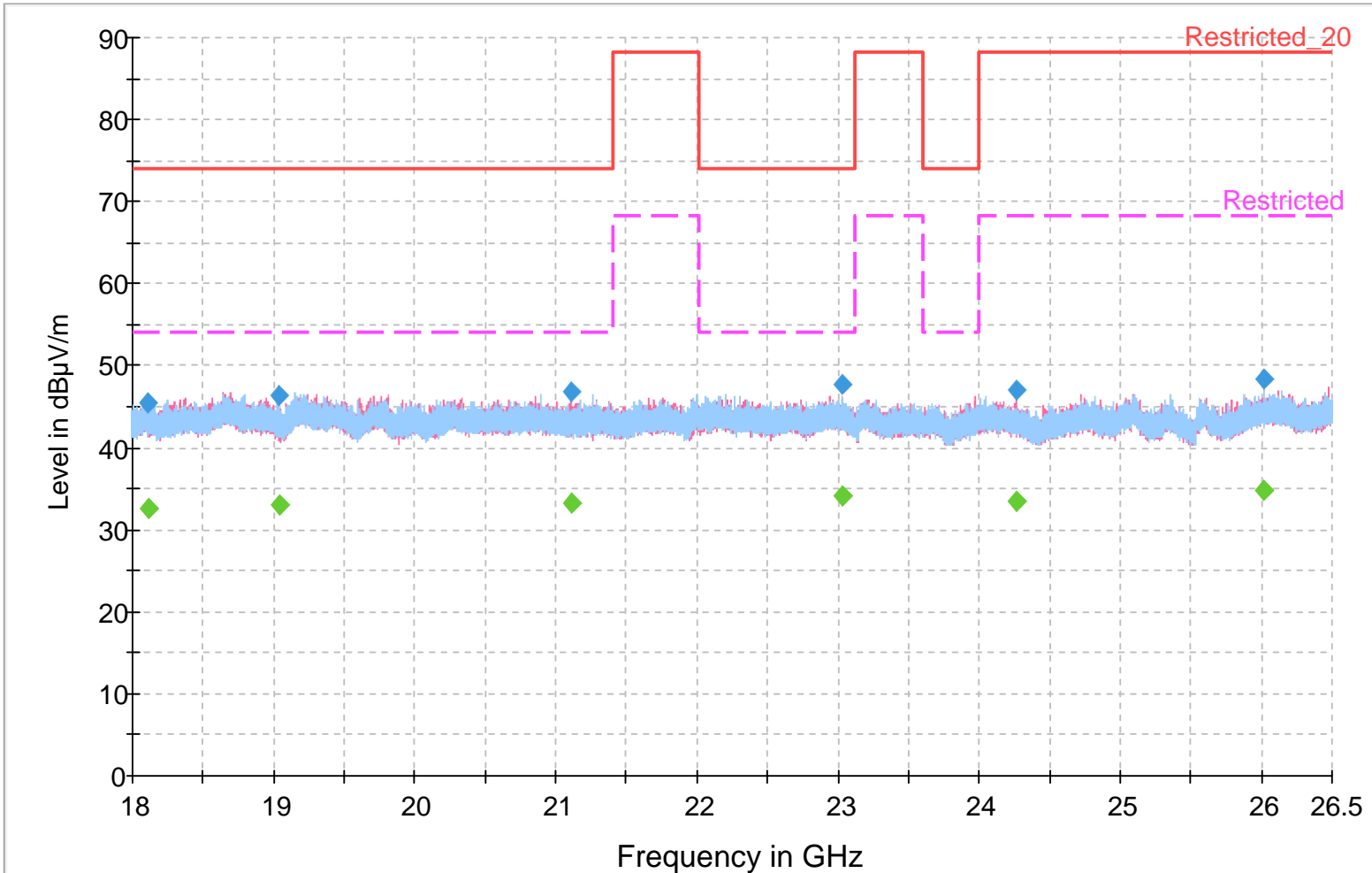
**Final Result 1**

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
19221.025000	47.1	110.0	H	77.0	10.1	26.90	74.00	
20906.150000	46.4	231.0	H	49.0	10.1	27.60	74.00	
21793.125000	47.5	222.0	H	11.0	10.4	40.70	88.20	
23034.975000	47.3	264.0	V	132.0	11.0	26.70	74.00	
24354.600000	46.7	141.0	V	359.0	10.4	41.50	88.20	
26040.150000	48.4	134.0	H	63.0	11.3	39.80	88.20	

**Final Result 2**

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
19221.025000	33.4	110.0	H	77.0	10.1	20.60	54.00	
20906.150000	33.4	231.0	H	49.0	10.1	20.60	54.00	
21793.125000	33.8	222.0	H	11.0	10.4	34.40	68.20	
23034.975000	34.2	264.0	V	132.0	11.0	19.80	54.00	
24354.600000	33.3	141.0	V	359.0	10.4	34.90	68.20	
26040.150000	34.7	134.0	H	63.0	11.3	33.50	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG



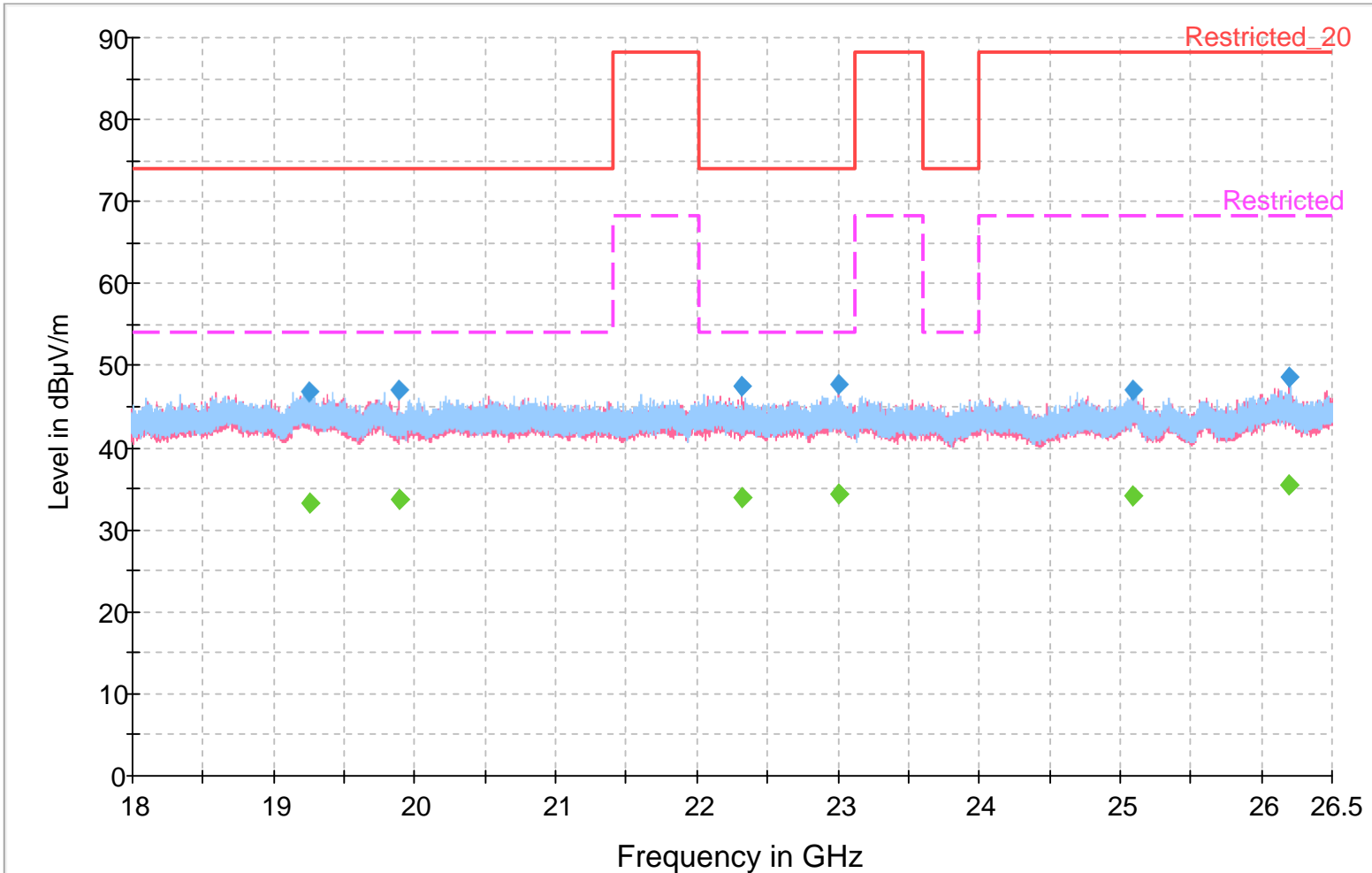
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18109.650000	45.5	137.0	V	206.0	9.5	28.50	74.00	
19038.275000	46.3	100.0	H	146.0	9.8	27.80	74.00	
21113.975000	46.8	300.0	V	136.0	10.0	27.20	74.00	
23037.525000	47.7	237.0	V	113.0	10.9	26.30	74.00	
24263.650000	47.1	236.0	V	344.0	10.5	41.10	88.20	
26014.225000	48.3	177.0	H	147.0	11.2	39.90	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18109.650000	32.5	137.0	V	206.0	9.5	21.50	54.00	
19038.275000	33.0	100.0	H	146.0	9.8	21.00	54.00	
21113.975000	33.3	300.0	V	136.0	10.0	20.70	54.00	
23037.525000	34.2	237.0	V	113.0	10.9	19.80	54.00	
24263.650000	33.5	236.0	V	344.0	10.5	34.70	68.20	
26014.225000	34.7	177.0	H	147.0	11.2	33.50	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      - - - Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

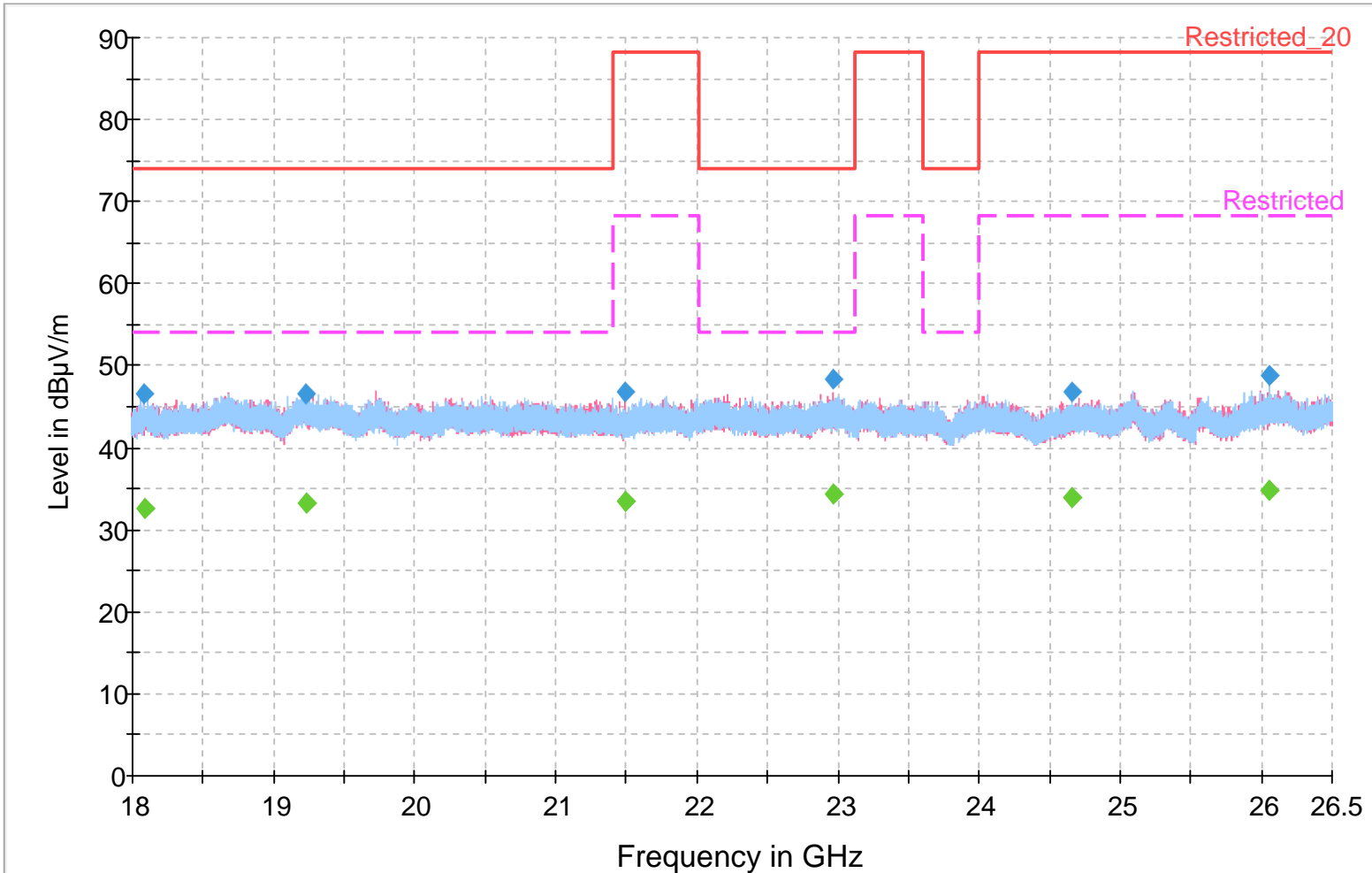
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19257.150000	46.7	137.0	H	291.0	10.2	27.30	74.00	
19897.625000	47.1	175.0	V	310.0	10.0	27.00	74.00	
22318.000000	47.4	126.0	V	169.0	10.6	26.60	74.00	
23001.400000	47.7	191.0	V	76.0	11.0	26.30	74.00	
25088.150000	47.0	240.0	H	226.0	10.5	41.20	88.20	
26192.300000	48.5	153.0	V	6.0	11.9	39.70	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19257.150000	33.3	137.0	H	291.0	10.2	20.70	54.00	
19897.625000	33.6	175.0	V	310.0	10.0	20.40	54.00	
22318.000000	33.9	126.0	V	169.0	10.6	20.10	54.00	
23001.400000	34.3	191.0	V	76.0	11.0	19.70	54.00	
25088.150000	34.1	240.0	H	226.0	10.5	34.10	68.20	
26192.300000	35.4	153.0	V	6.0	11.9	32.80	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

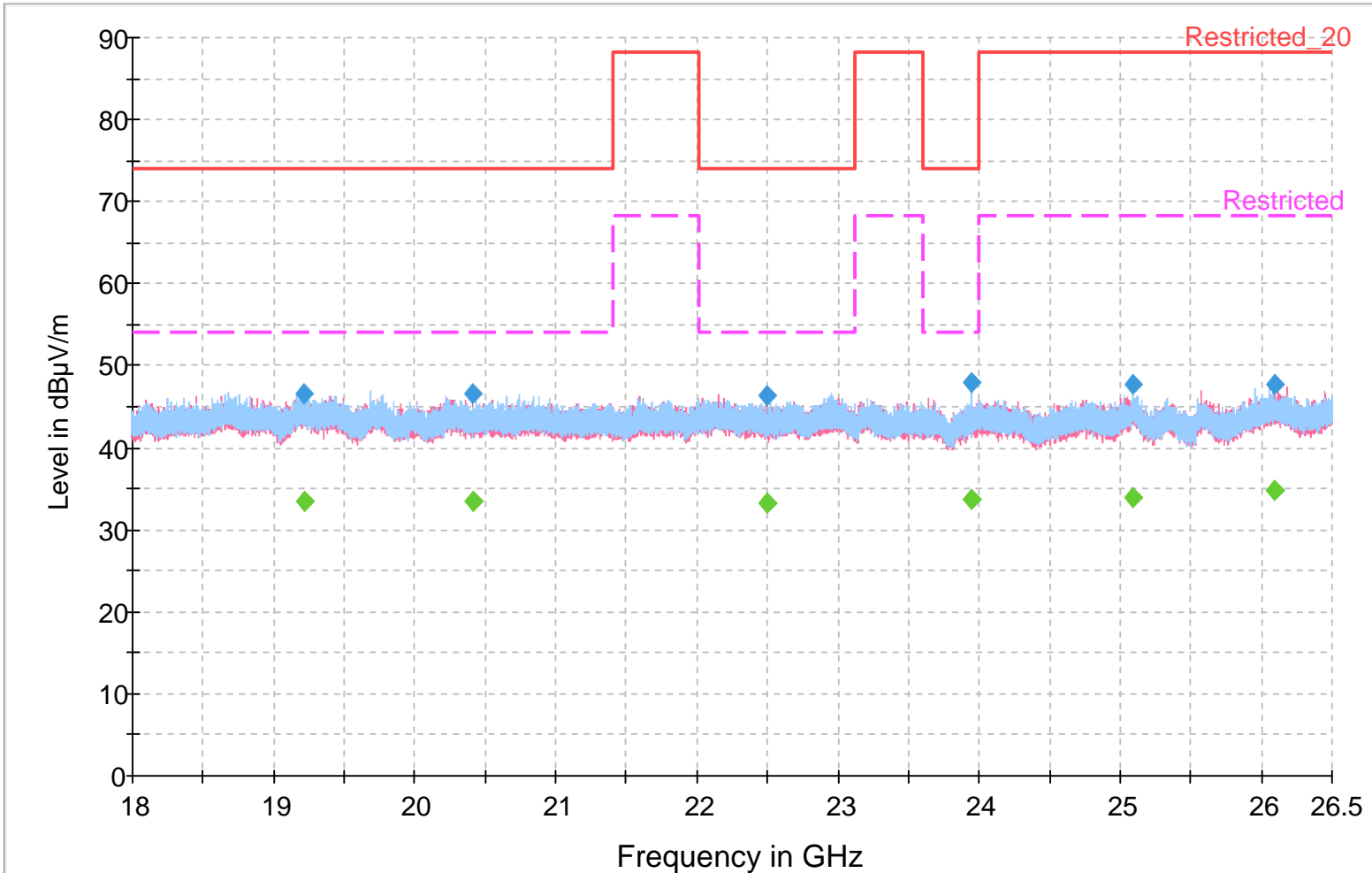
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18094.775000	46.6	275.0	H	299.0	9.5	27.40	74.00	
19233.775000	46.5	196.0	V	0.0	10.1	27.50	74.00	
21490.100000	46.8	100.0	V	20.0	10.3	41.40	88.20	
22970.800000	48.2	225.0	V	57.0	11.0	25.80	74.00	
24660.175000	46.8	172.0	H	340.0	10.7	41.40	88.20	
26060.975000	48.7	129.0	H	39.0	11.4	39.50	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18094.775000	32.7	275.0	H	299.0	9.5	21.30	54.00	
19233.775000	33.2	196.0	V	0.0	10.1	20.80	54.00	
21490.100000	33.4	100.0	V	20.0	10.3	34.80	68.20	
22970.800000	34.3	225.0	V	57.0	11.0	19.70	54.00	
24660.175000	33.9	172.0	H	340.0	10.7	34.30	68.20	
26060.975000	34.7	129.0	H	39.0	11.4	33.50	68.20	

### FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      - - - Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

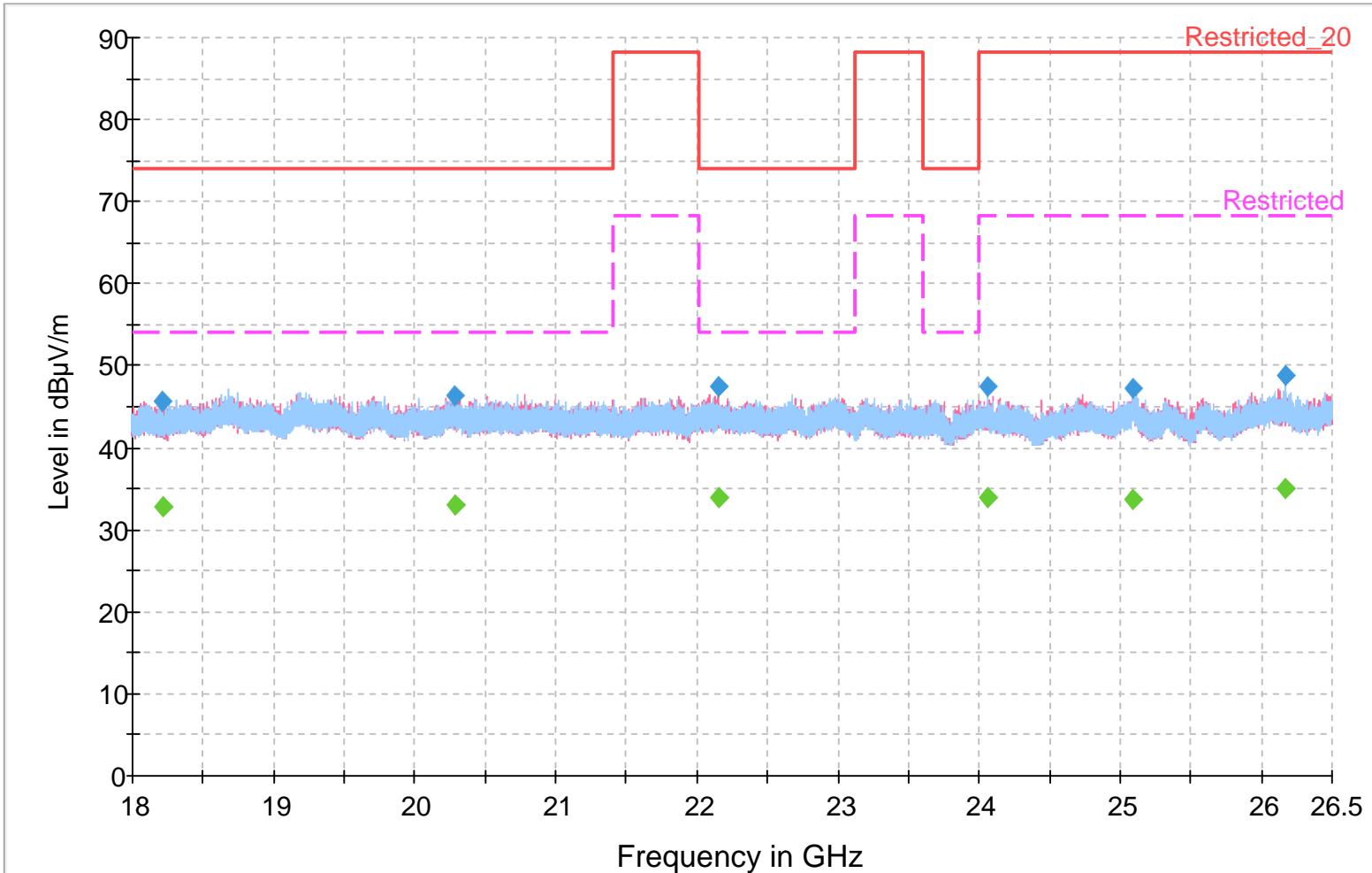
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19220.600000	46.6	269.0	V	254.0	10.1	27.40	74.00	
20416.550000	46.6	149.0	V	215.0	10.1	27.40	74.00	
22495.225000	46.3	282.0	V	225.0	10.5	27.70	74.00	
23947.450000	48.0	231.0	H	261.0	10.5	26.00	74.00	
25086.875000	47.7	283.0	H	252.0	10.5	40.50	88.20	
26087.750000	47.7	227.0	V	206.0	11.5	40.50	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19220.600000	33.4	269.0	V	254.0	10.1	20.60	54.00	
20416.550000	33.5	149.0	V	215.0	10.1	20.50	54.00	
22495.225000	33.3	282.0	V	225.0	10.5	20.70	54.00	
23947.450000	33.6	231.0	H	261.0	10.5	20.40	54.00	
25086.875000	33.9	283.0	H	252.0	10.5	34.30	68.20	
26087.750000	34.8	227.0	V	206.0	11.5	33.40	68.20	

### FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG



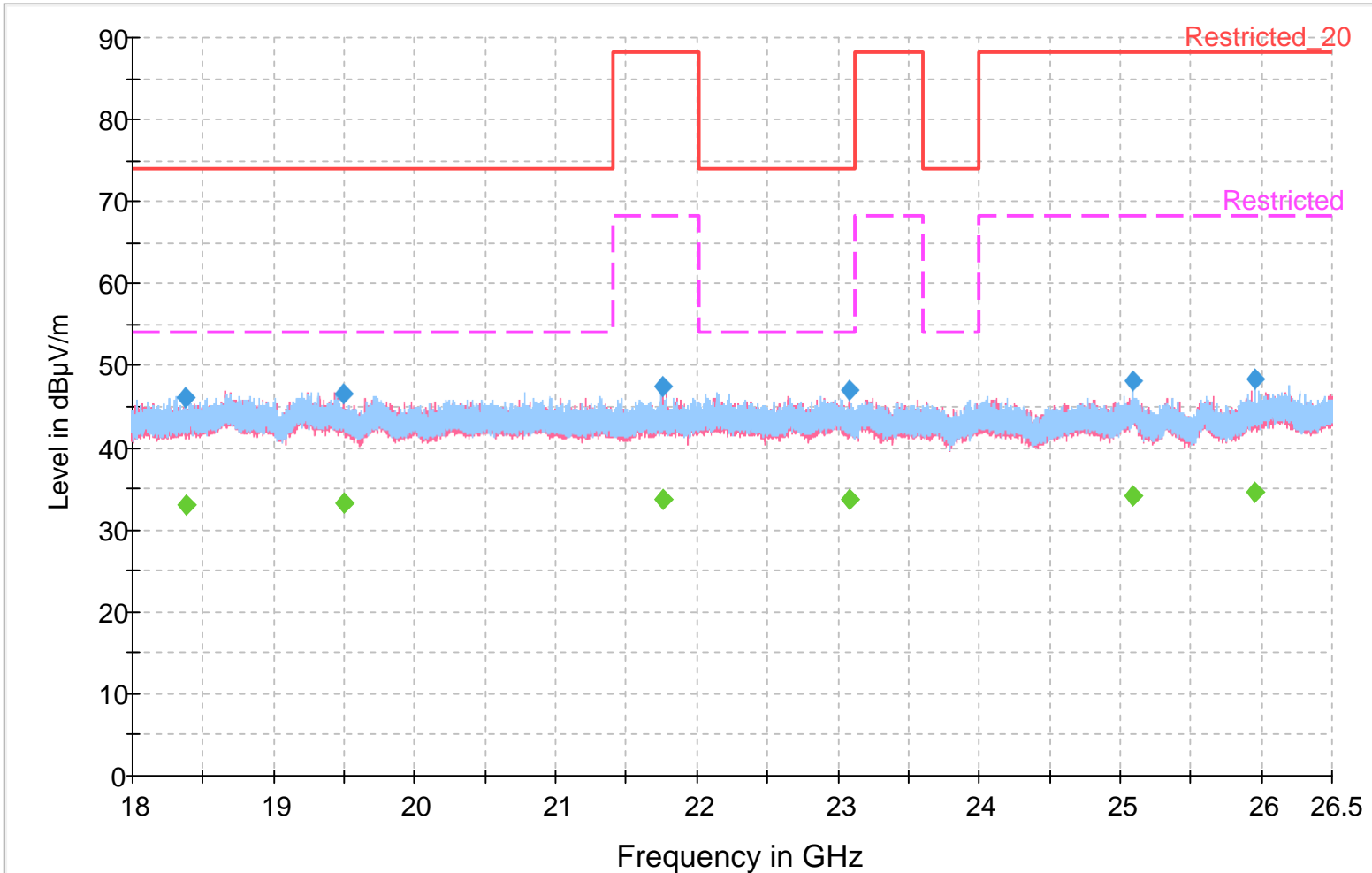
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18220.575000	45.8	227.0	V	104.0	9.4	28.20	74.00	
20282.675000	46.4	129.0	V	170.0	10.0	27.60	74.00	
22148.425000	47.4	287.0	V	321.0	10.5	26.60	74.00	
24062.625000	47.4	260.0	H	16.0	10.6	40.80	88.20	
25089.000000	47.1	165.0	H	280.0	10.5	41.10	88.20	
26165.525000	48.8	144.0	H	209.0	11.8	39.40	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18220.575000	32.8	227.0	V	104.0	9.4	21.20	54.00	
20282.675000	33.1	129.0	V	170.0	10.0	20.90	54.00	
22148.425000	33.9	287.0	V	321.0	10.5	20.10	54.00	
24062.625000	34.0	260.0	H	16.0	10.6	34.20	68.20	
25089.000000	33.8	165.0	H	280.0	10.5	34.40	68.20	
26165.525000	35.1	144.0	H	209.0	11.8	33.10	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

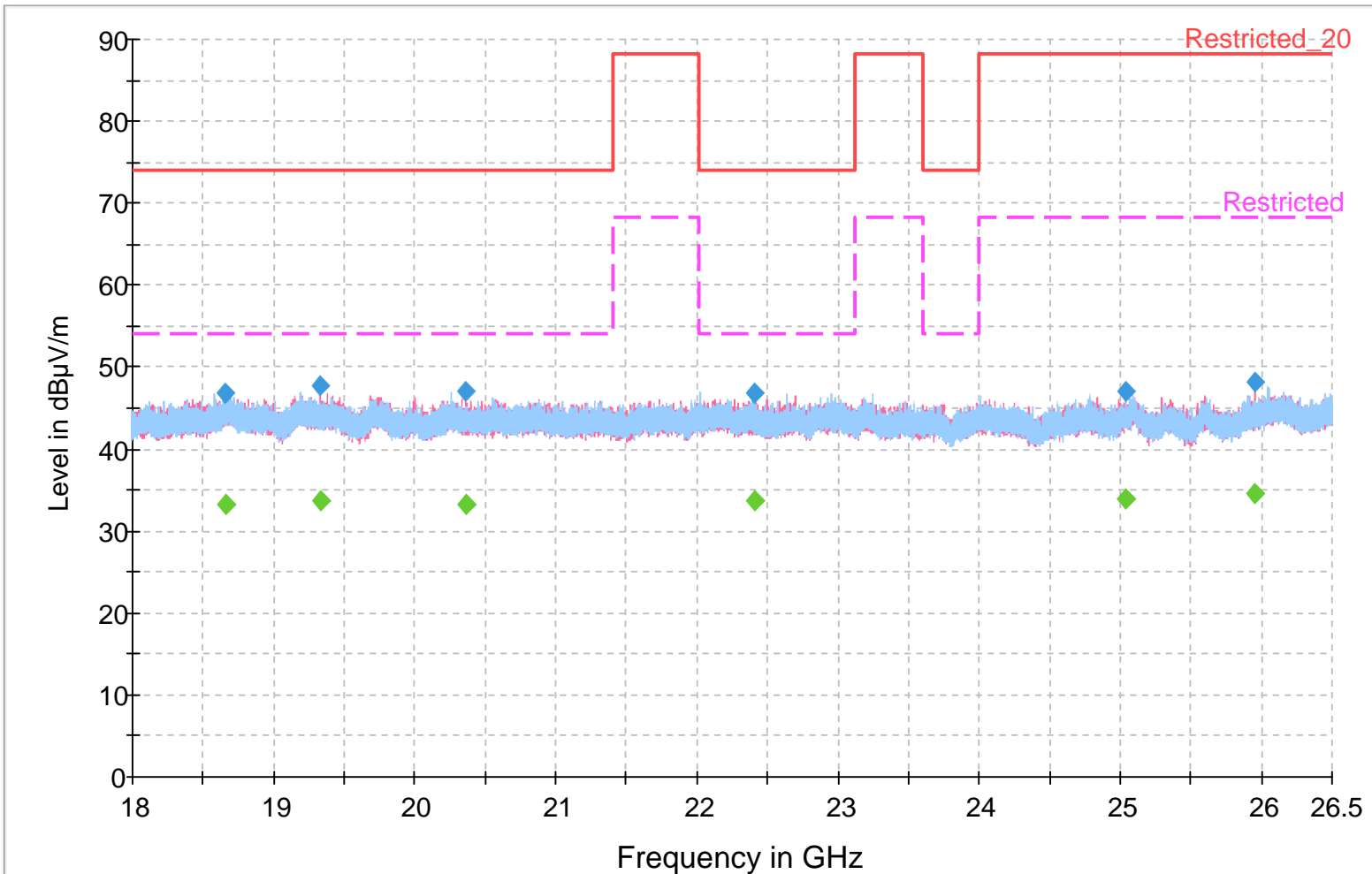
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18385.475000	46.2	222.0	V	257.0	9.4	27.80	74.00	
19501.100000	46.4	271.0	V	62.0	9.9	27.60	74.00	
21756.575000	47.3	257.0	V	43.0	10.3	40.90	88.20	
23076.200000	46.9	100.0	V	294.0	10.9	27.10	74.00	
25085.175000	48.1	137.0	H	76.0	10.5	40.10	88.20	
25956.850000	48.3	125.0	H	141.0	11.0	39.90	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18385.475000	33.0	222.0	V	257.0	9.4	21.00	54.00	
19501.100000	33.4	271.0	V	62.0	9.9	20.60	54.00	
21756.575000	33.7	257.0	V	43.0	10.3	34.50	68.20	
23076.200000	33.8	100.0	V	294.0	10.9	20.20	54.00	
25085.175000	34.1	137.0	H	76.0	10.5	34.10	68.20	
25956.850000	34.5	125.0	H	141.0	11.0	33.70	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

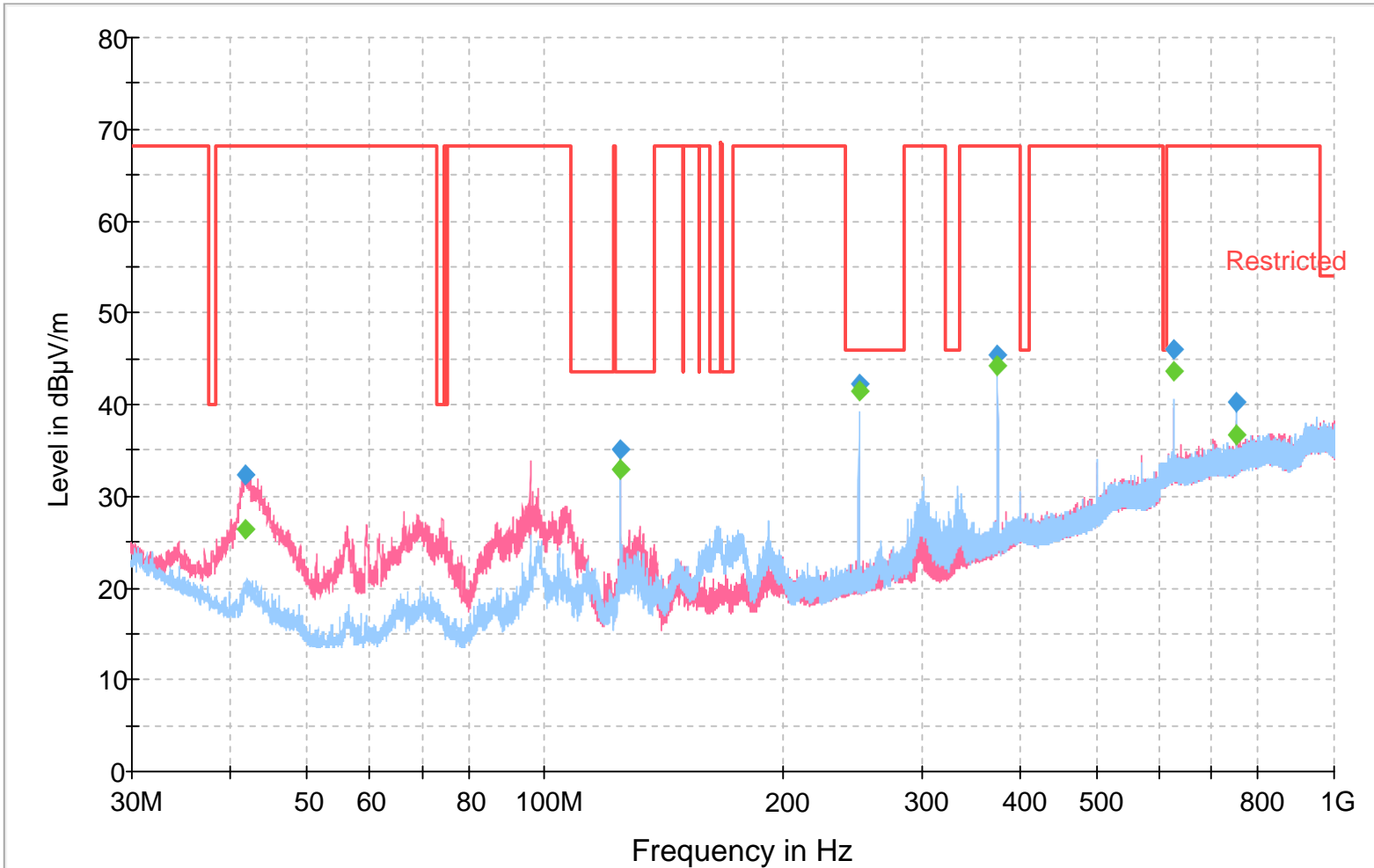
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18659.175000	46.9	192.0	V	141.0	9.7	27.10	74.00	
19332.375000	47.7	241.0	V	44.0	10.1	26.30	74.00	
20362.150000	46.9	291.0	V	57.0	10.1	27.10	74.00	
22410.225000	46.8	150.0	H	93.0	10.6	27.20	74.00	
25036.725000	47.0	271.0	V	99.0	10.5	41.20	88.20	
25957.700000	48.1	236.0	V	67.0	11.0	40.10	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18659.175000	33.2	192.0	V	141.0	9.7	20.80	54.00	
19332.375000	33.6	241.0	V	44.0	10.1	20.40	54.00	
20362.150000	33.3	291.0	V	57.0	10.1	20.70	54.00	
22410.225000	33.7	150.0	H	93.0	10.6	20.30	54.00	
25036.725000	33.9	271.0	V	99.0	10.5	34.30	68.20	
25957.700000	34.6	236.0	V	67.0	11.0	33.60	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

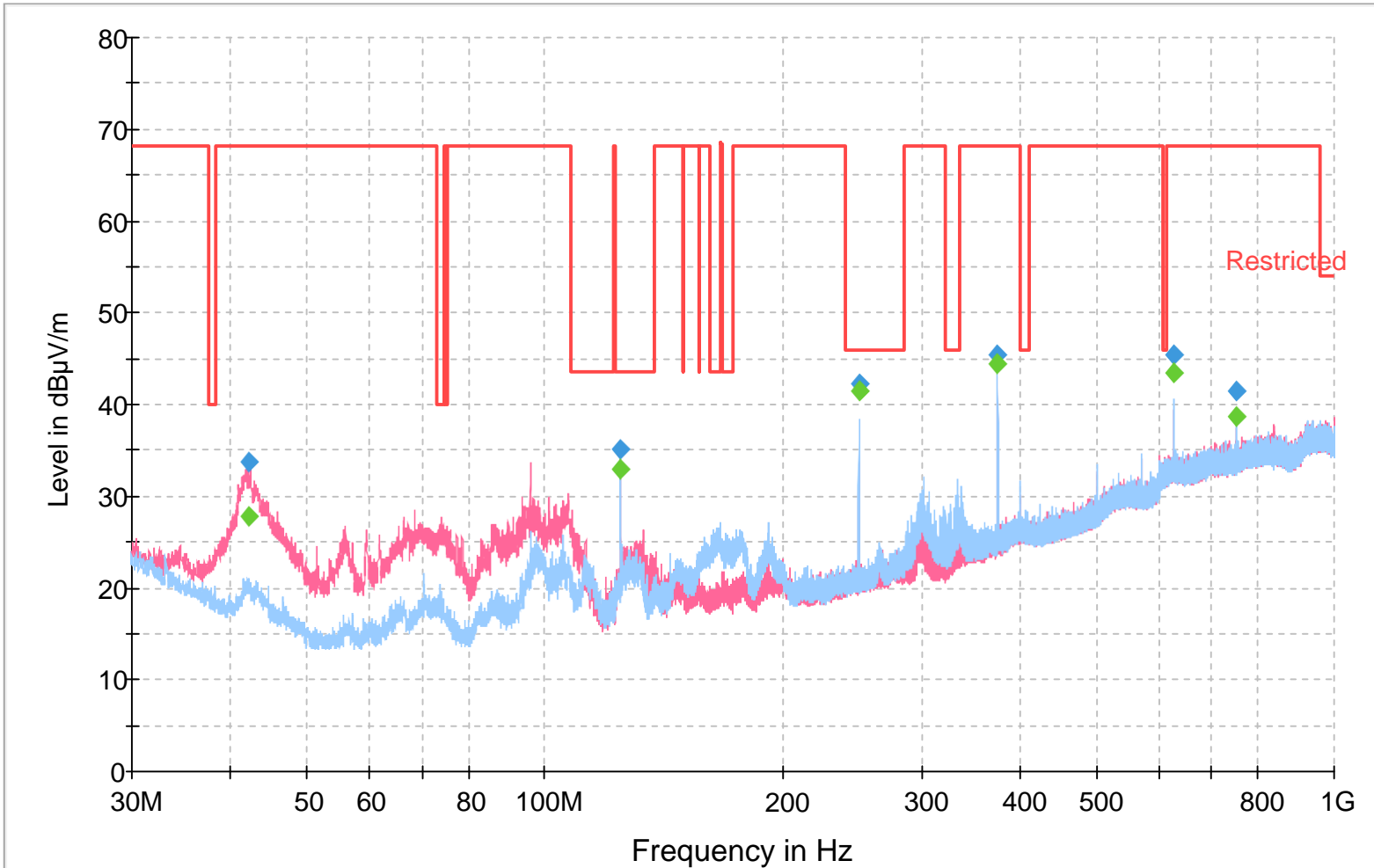
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.940000	32.4	100.0	V	224.0	14.3	35.80	68.20	
125.010000	35.0	100.0	V	16.0	12.6	8.50	43.50	
249.990000	42.1	127.0	H	239.0	17.7	3.90	46.00	
375.000000	45.3	136.0	H	270.0	21.7	22.90	68.20	
624.990000	45.8	114.0	H	246.0	27.8	22.40	68.20	
750.030000	40.2	100.0	H	92.0	28.8	28.00	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.940000	26.5	100.0	V	224.0	14.3	41.70	68.20	
125.010000	32.9	100.0	V	16.0	12.6	10.60	43.50	
249.990000	41.3	127.0	H	239.0	17.7	4.70	46.00	
375.000000	44.2	136.0	H	270.0	21.7	24.00	68.20	
624.990000	43.6	114.0	H	246.0	27.8	24.60	68.20	
750.030000	36.7	100.0	H	92.0	28.8	31.50	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+



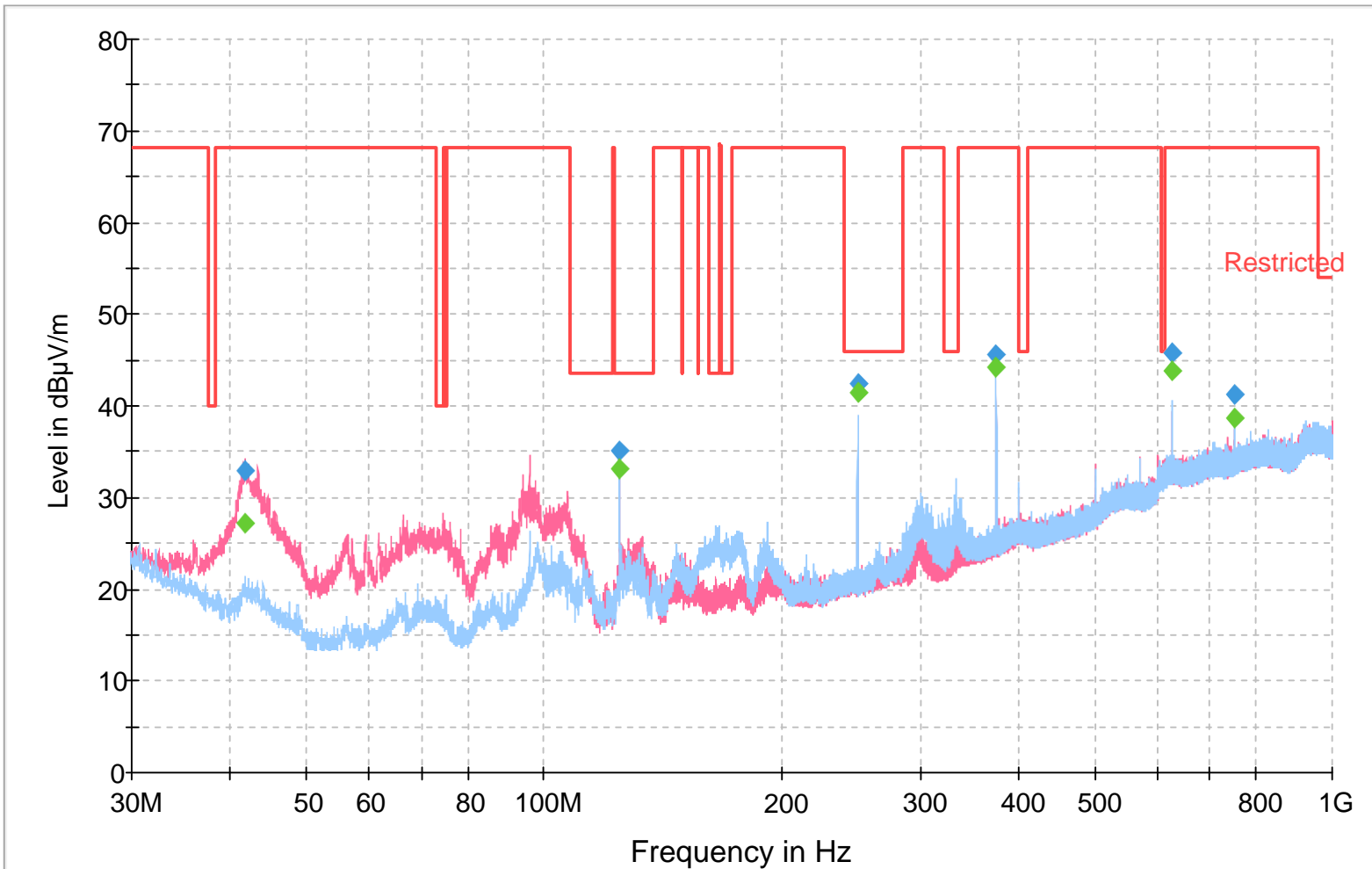
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.210000	33.7	100.0	V	127.0	14.2	34.50	68.20	
125.010000	35.0	100.0	V	9.0	12.6	8.50	43.50	
249.990000	42.2	125.0	H	239.0	17.7	3.80	46.00	
375.000000	45.4	237.0	H	133.0	21.7	22.80	68.20	
624.990000	45.4	113.0	H	231.0	27.8	22.80	68.20	
750.030000	41.4	100.0	H	169.0	28.8	26.80	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.210000	27.8	100.0	V	127.0	14.2	40.40	68.20	
125.010000	32.9	100.0	V	9.0	12.6	10.60	43.50	
249.990000	41.3	125.0	H	239.0	17.7	4.70	46.00	
375.000000	44.3	237.0	H	133.0	21.7	23.90	68.20	
624.990000	43.4	113.0	H	231.0	27.8	24.80	68.20	
750.030000	38.5	100.0	H	169.0	28.8	29.70	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+      — Preview Result 1V-PK+      — Preview Result 1H-PK+  
◆ Final Result 2-QPK

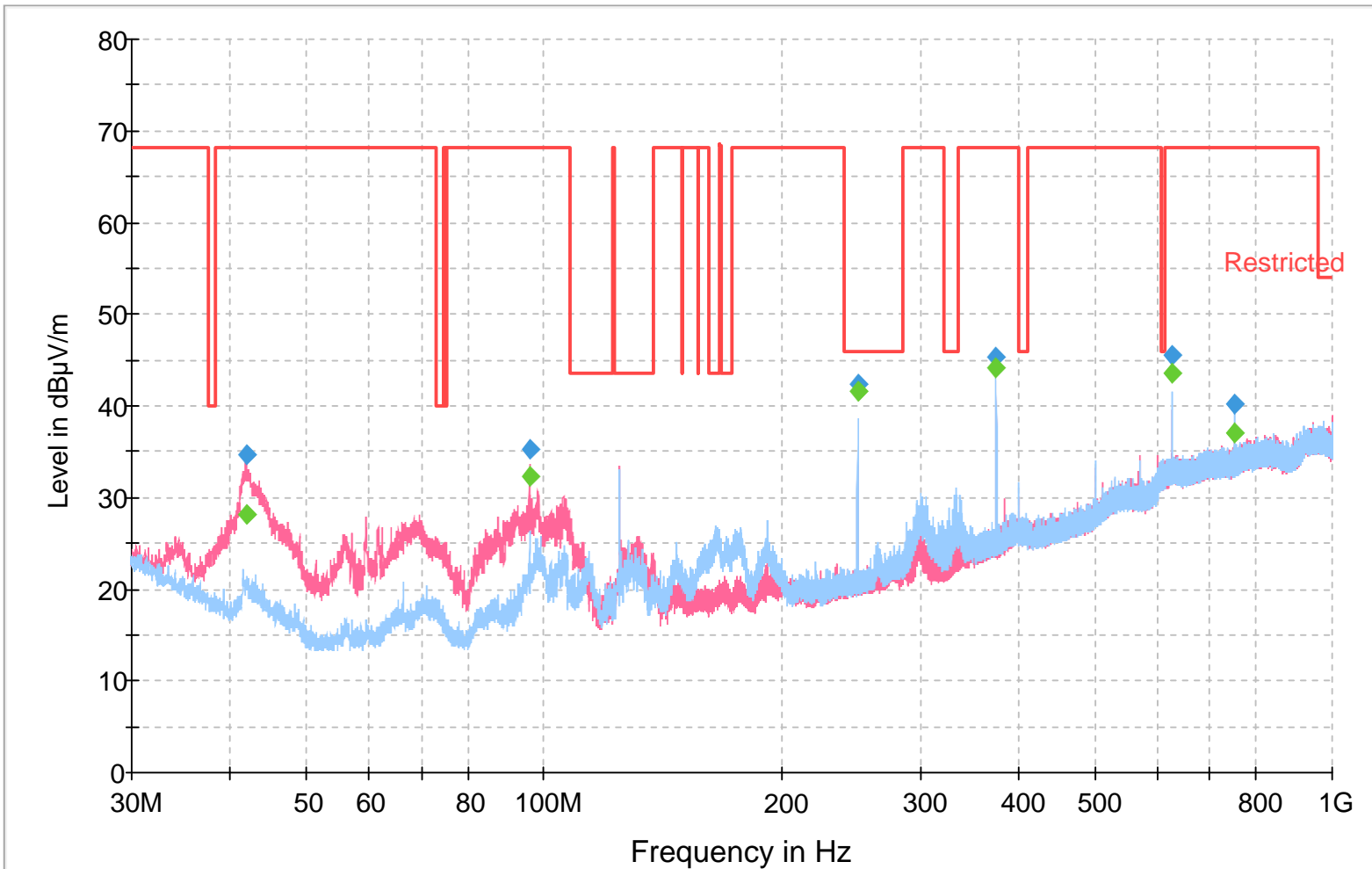
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.850000	32.9	100.0	V	204.0	14.3	35.30	68.20	
125.010000	35.2	100.0	V	22.0	12.6	8.30	43.50	
249.990000	42.4	125.0	H	238.0	17.7	3.60	46.00	
375.000000	45.4	247.0	H	134.0	21.7	22.80	68.20	
624.990000	45.7	113.0	H	238.0	27.8	22.50	68.20	
750.030000	41.1	100.0	H	168.0	28.8	27.10	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.850000	27.3	100.0	V	204.0	14.3	40.90	68.20	
125.010000	33.0	100.0	V	22.0	12.6	10.50	43.50	
249.990000	41.4	125.0	H	238.0	17.7	4.60	46.00	
375.000000	44.1	247.0	H	134.0	21.7	24.10	68.20	
624.990000	43.8	113.0	H	238.0	27.8	24.40	68.20	
750.030000	38.5	100.0	H	168.0	28.8	29.70	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

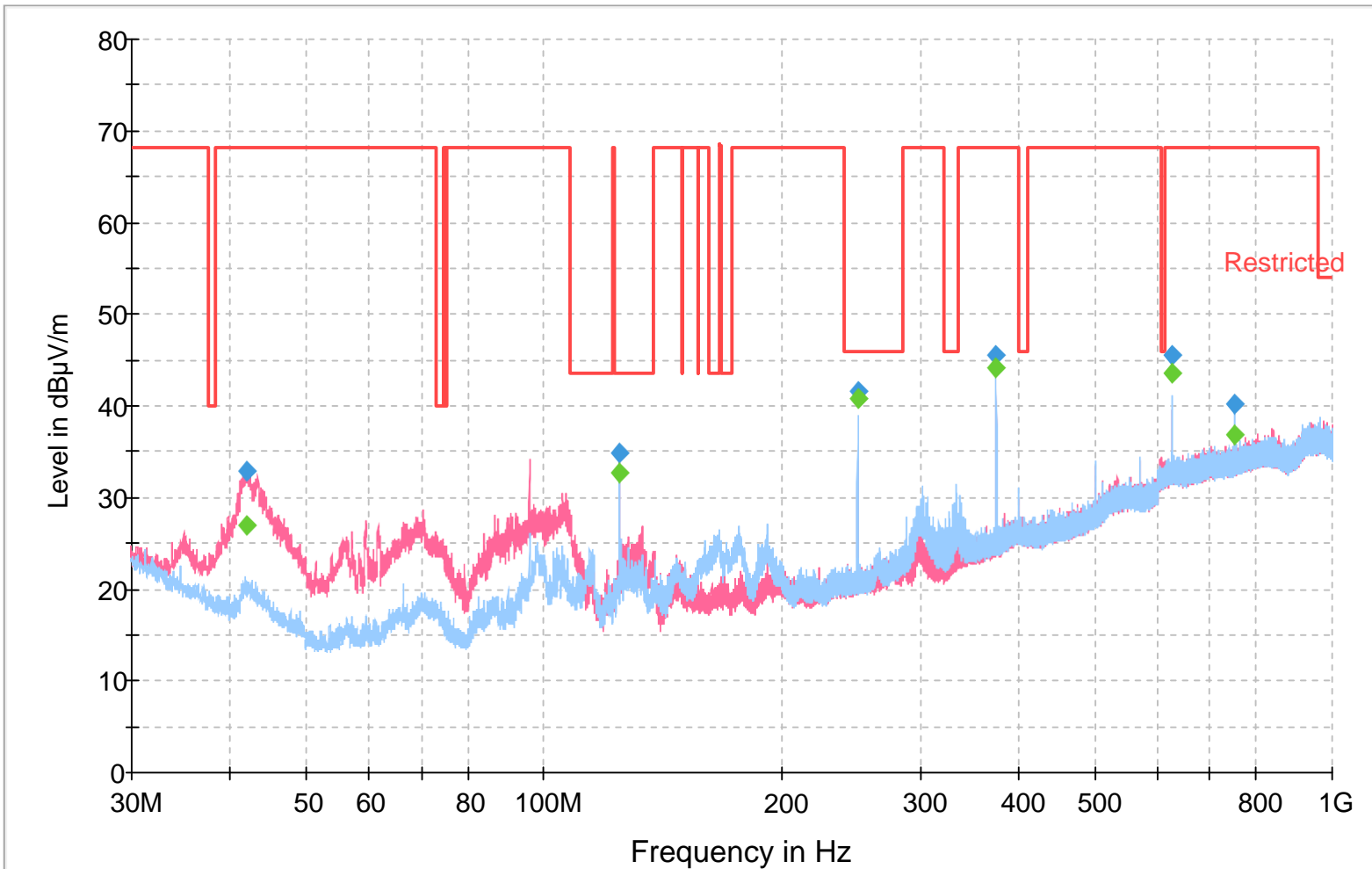
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.970000	34.7	100.0	V	241.0	14.2	33.50	68.20	
96.000000	35.3	120.0	V	210.0	12.6	32.90	68.20	
249.990000	42.4	120.0	H	245.0	17.7	3.60	46.00	
375.000000	45.3	100.0	H	310.0	21.7	22.90	68.20	
624.990000	45.5	119.0	H	233.0	27.8	22.70	68.20	
750.030000	40.2	100.0	H	359.0	28.8	28.00	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.970000	28.1	100.0	V	241.0	14.2	40.10	68.20	
96.000000	32.3	120.0	V	210.0	12.6	35.90	68.20	
249.990000	41.5	120.0	H	245.0	17.7	4.50	46.00	
375.000000	44.1	100.0	H	310.0	21.7	24.10	68.20	
624.990000	43.5	119.0	H	233.0	27.8	24.70	68.20	
750.030000	37.1	100.0	H	359.0	28.8	31.10	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

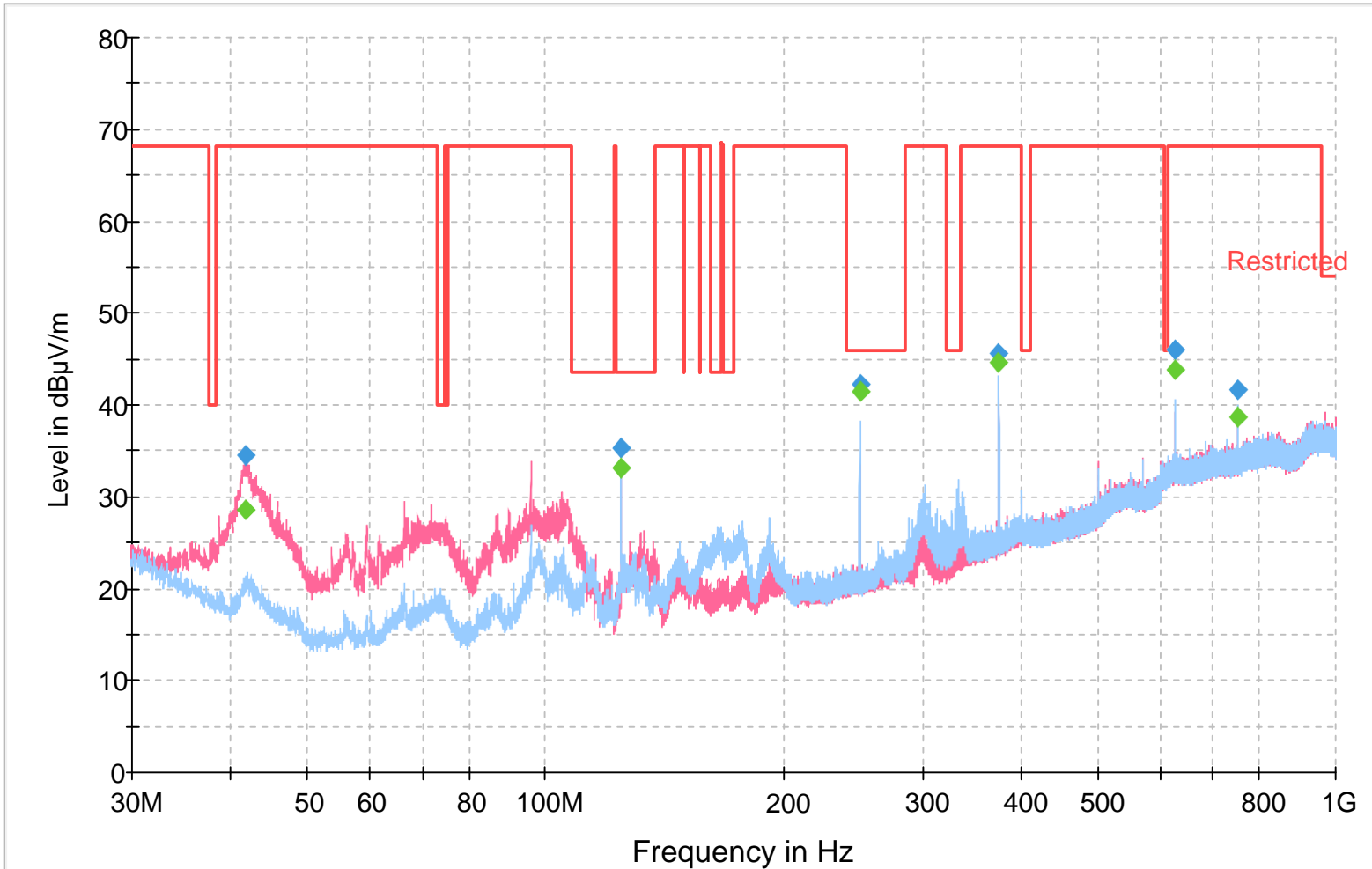
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.030000	32.9	152.0	V	336.0	14.2	35.30	68.20	
125.010000	34.9	100.0	V	0.0	12.6	8.60	43.50	
249.990000	41.6	118.0	H	230.0	17.7	4.40	46.00	
375.000000	45.4	100.0	H	310.0	21.7	22.80	68.20	
624.990000	45.6	119.0	H	232.0	27.8	22.60	68.20	
750.030000	40.3	100.0	H	92.0	28.8	27.90	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.030000	27.0	152.0	V	336.0	14.2	41.20	68.20	
125.010000	32.7	100.0	V	0.0	12.6	10.80	43.50	
249.990000	40.7	118.0	H	230.0	17.7	5.30	46.00	
375.000000	44.2	100.0	H	310.0	21.7	24.00	68.20	
624.990000	43.5	119.0	H	232.0	27.8	24.70	68.20	
750.030000	36.8	100.0	H	92.0	28.8	31.40	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+



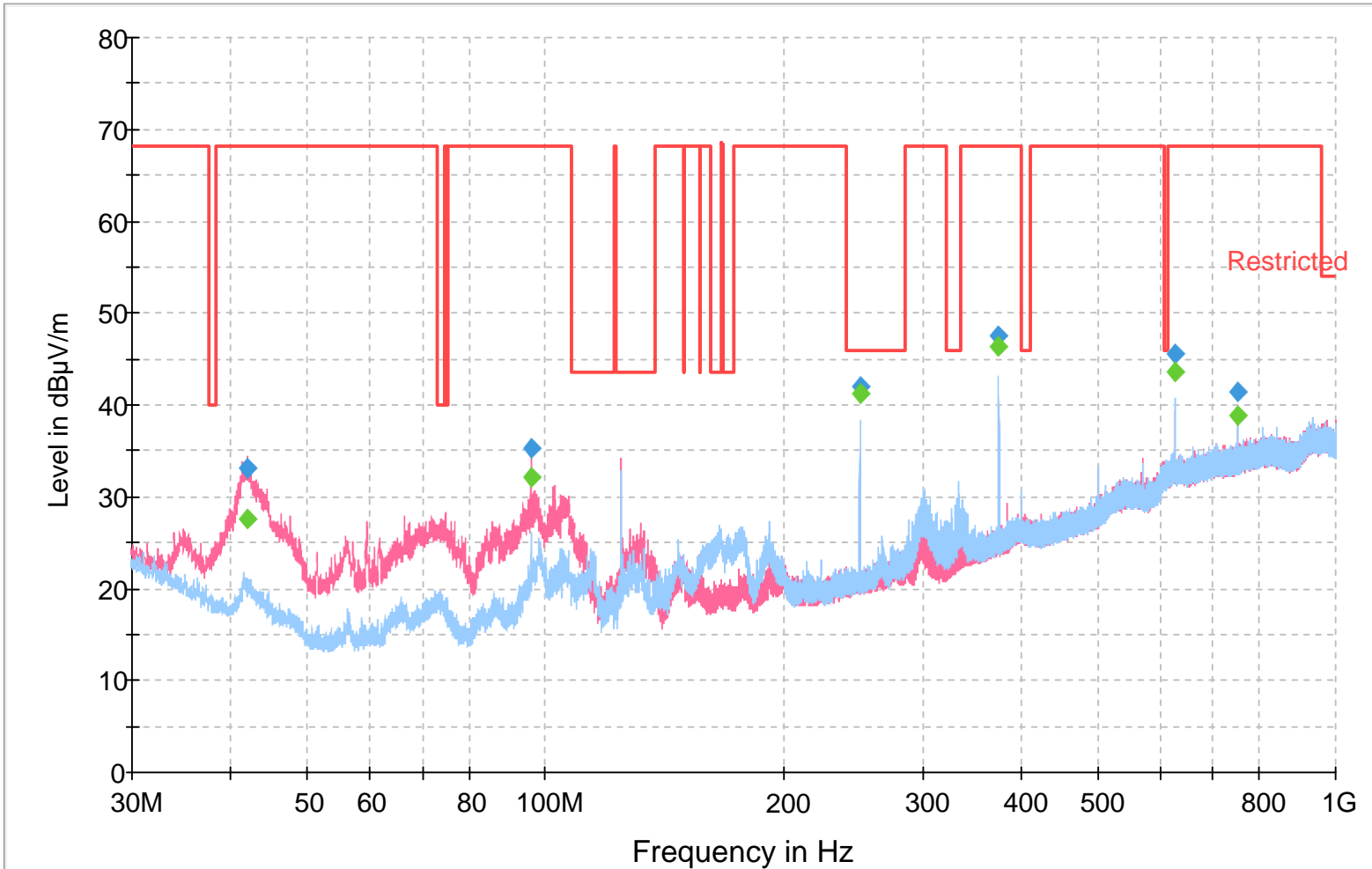
**Final Result 1**

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
41.850000	34.5	114.0	V	307.0	14.3	33.70	68.20	
125.010000	35.2	100.0	V	15.0	12.6	8.30	43.50	
249.990000	42.1	120.0	H	238.0	17.7	3.90	46.00	
375.000000	45.6	143.0	H	270.0	21.7	22.60	68.20	
624.990000	45.8	113.0	H	241.0	27.8	22.40	68.20	
750.030000	41.6	100.0	H	168.0	28.8	26.60	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
41.850000	28.6	114.0	V	307.0	14.3	39.60	68.20	
125.010000	33.1	100.0	V	15.0	12.6	10.40	43.50	
249.990000	41.3	120.0	H	238.0	17.7	4.70	46.00	
375.000000	44.5	143.0	H	270.0	21.7	23.70	68.20	
624.990000	43.8	113.0	H	241.0	27.8	24.40	68.20	
750.030000	38.7	100.0	H	168.0	28.8	29.50	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

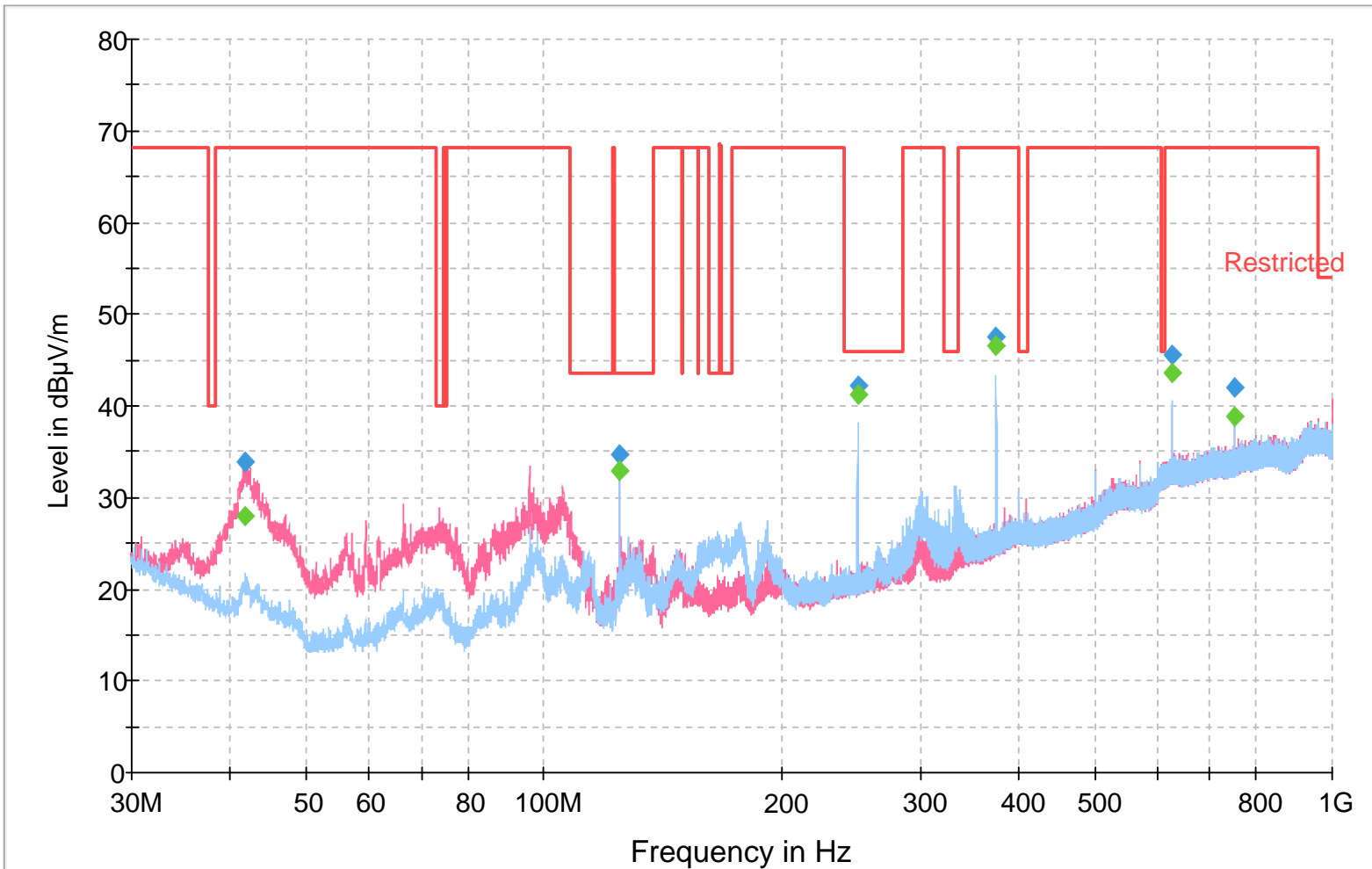
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.000000	33.2	100.0	V	197.0	14.2	35.00	68.20	
96.000000	35.3	118.0	V	211.0	12.6	32.90	68.20	
249.990000	42.0	120.0	H	238.0	17.7	4.00	46.00	
375.000000	47.4	100.0	H	288.0	21.7	20.80	68.20	
624.990000	45.6	118.0	H	232.0	27.8	22.60	68.20	
750.030000	41.3	100.0	H	169.0	28.8	26.90	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.000000	27.5	100.0	V	197.0	14.2	40.70	68.20	
96.000000	32.1	118.0	V	211.0	12.6	36.10	68.20	
249.990000	41.2	120.0	H	238.0	17.7	4.80	46.00	
375.000000	46.4	100.0	H	288.0	21.7	21.80	68.20	
624.990000	43.5	118.0	H	232.0	27.8	24.70	68.20	
750.030000	38.8	100.0	H	169.0	28.8	29.40	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

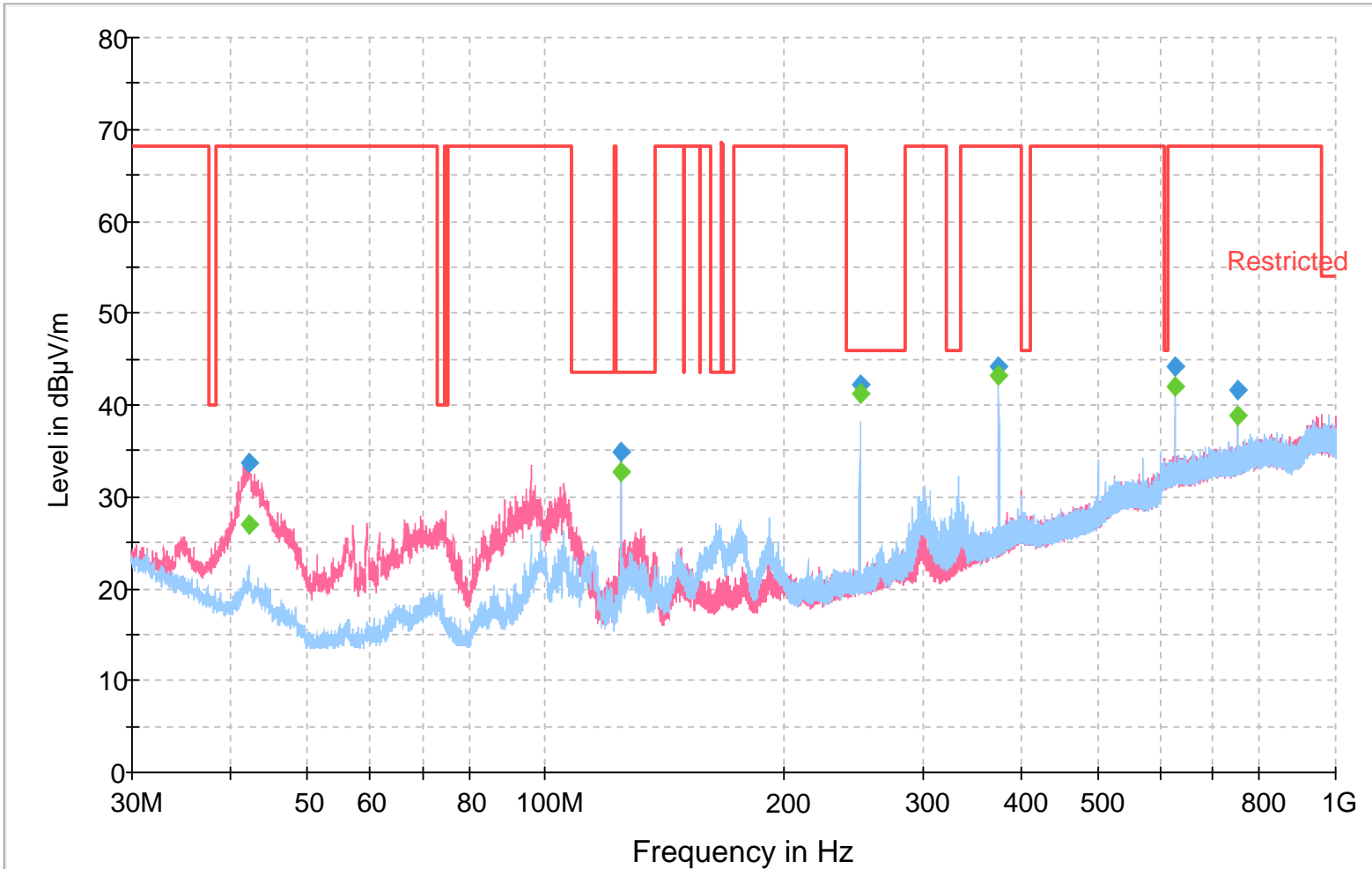
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.820000	33.8	100.0	V	78.0	14.3	34.40	68.20	
125.010000	34.7	100.0	V	15.0	12.6	8.80	43.50	
249.990000	42.1	125.0	H	241.0	17.7	3.90	46.00	
375.000000	47.4	100.0	H	289.0	21.7	20.80	68.20	
624.990000	45.5	114.0	H	233.0	27.8	22.70	68.20	
750.030000	41.9	100.0	H	169.0	28.8	26.30	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.820000	28.0	100.0	V	78.0	14.3	40.20	68.20	
125.010000	32.8	100.0	V	15.0	12.6	10.70	43.50	
249.990000	41.3	125.0	H	241.0	17.7	4.70	46.00	
375.000000	46.4	100.0	H	289.0	21.7	21.80	68.20	
624.990000	43.5	114.0	H	233.0	27.8	24.70	68.20	
750.030000	38.9	100.0	H	169.0	28.8	29.30	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+

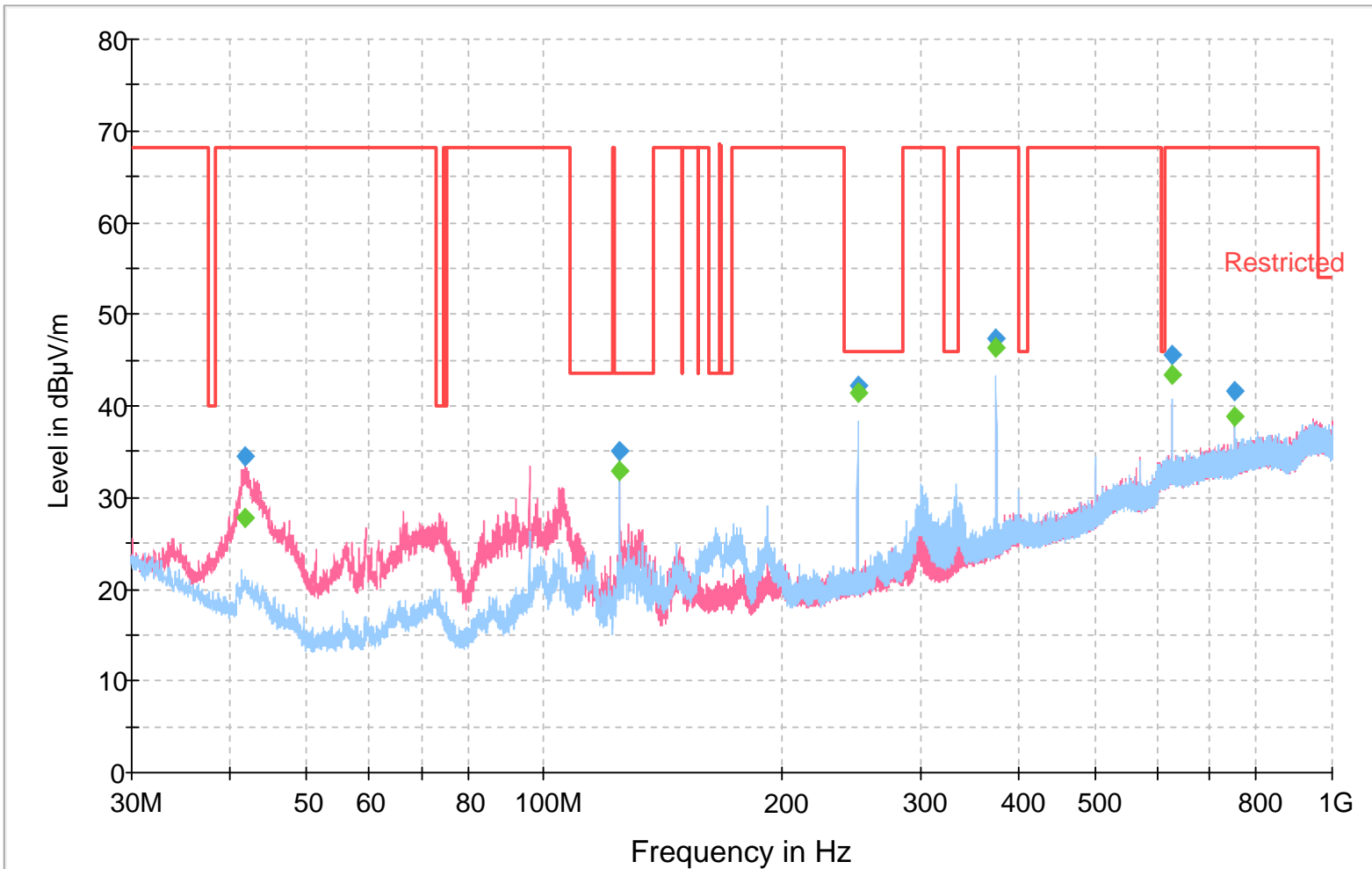
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.270000	33.7	100.0	V	113.0	14.1	34.50	68.20	
125.010000	34.8	100.0	V	9.0	12.6	8.70	43.50	
249.990000	42.1	125.0	H	238.0	17.7	3.90	46.00	
375.000000	44.2	187.0	H	322.0	21.7	24.00	68.20	
624.990000	44.2	100.0	H	245.0	27.8	24.00	68.20	
750.030000	41.6	100.0	H	169.0	28.8	26.60	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
42.270000	27.0	100.0	V	113.0	14.1	41.20	68.20	
125.010000	32.7	100.0	V	9.0	12.6	10.80	43.50	
249.990000	41.3	125.0	H	238.0	17.7	4.70	46.00	
375.000000	43.1	187.0	H	322.0	21.7	25.10	68.20	
624.990000	41.9	100.0	H	245.0	27.8	26.30	68.20	
750.030000	38.8	100.0	H	169.0	28.8	29.40	68.20	

### FCC Class B Radiated Scan 3m PK QP



— Restricted  
◆ Final Result 1-PK+  
— Preview Result 1V-PK+  
◆ Final Result 2-QPK  
— Preview Result 1H-PK+



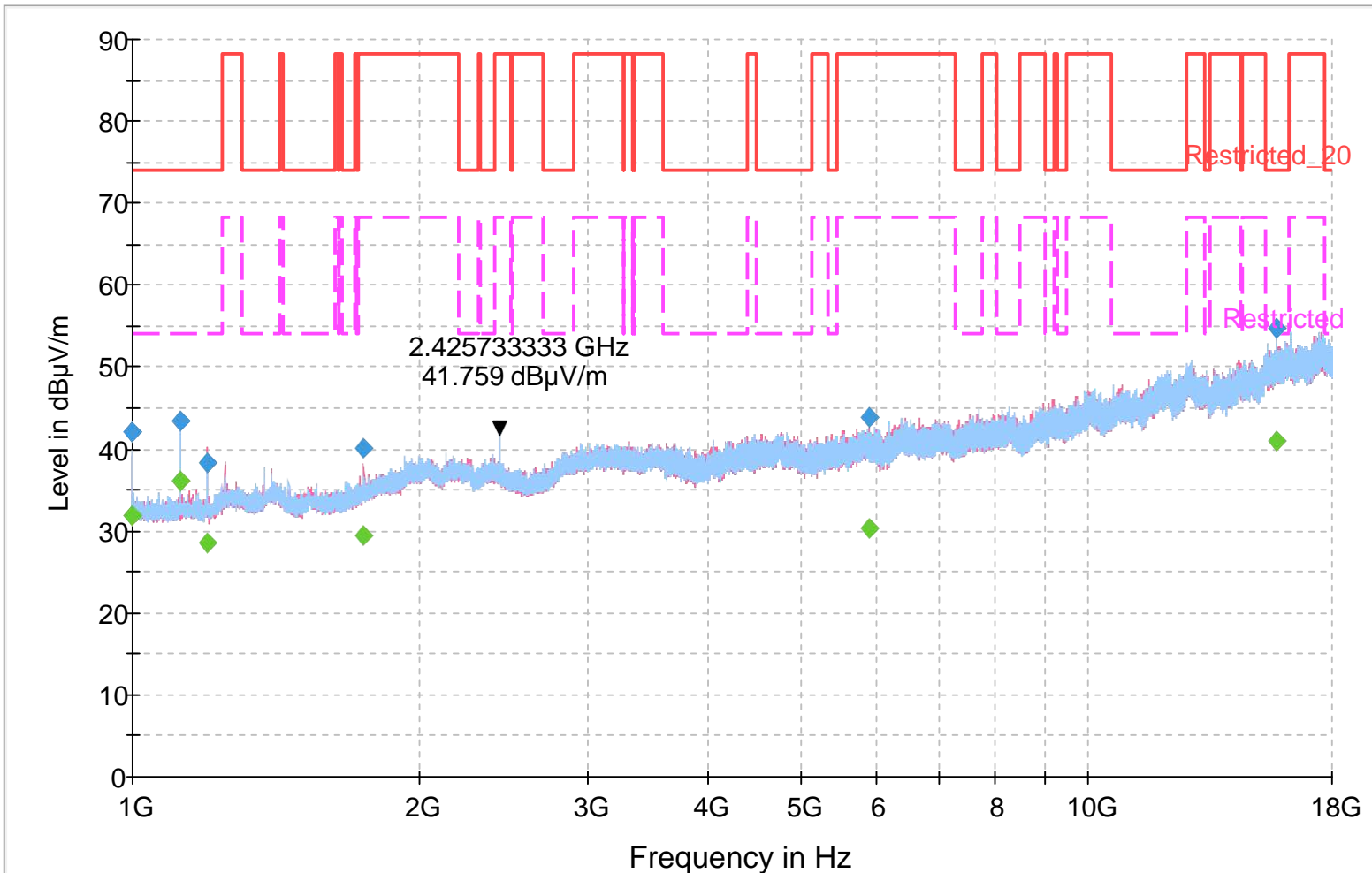
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.880000	34.4	118.0	V	359.0	14.3	33.80	68.20	
125.010000	35.0	100.0	V	9.0	12.6	8.50	43.50	
249.990000	42.2	126.0	H	238.0	17.7	3.80	46.00	
375.000000	47.3	100.0	H	295.0	21.7	20.90	68.20	
624.990000	45.6	114.0	H	232.0	27.8	22.60	68.20	
750.030000	41.7	100.0	H	168.0	28.8	26.50	68.20	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
41.880000	27.8	118.0	V	359.0	14.3	40.40	68.20	
125.010000	32.9	100.0	V	9.0	12.6	10.60	43.50	
249.990000	41.3	126.0	H	238.0	17.7	4.70	46.00	
375.000000	46.3	100.0	H	295.0	21.7	21.90	68.20	
624.990000	43.4	114.0	H	232.0	27.8	24.80	68.20	
750.030000	38.9	100.0	H	168.0	28.8	29.30	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

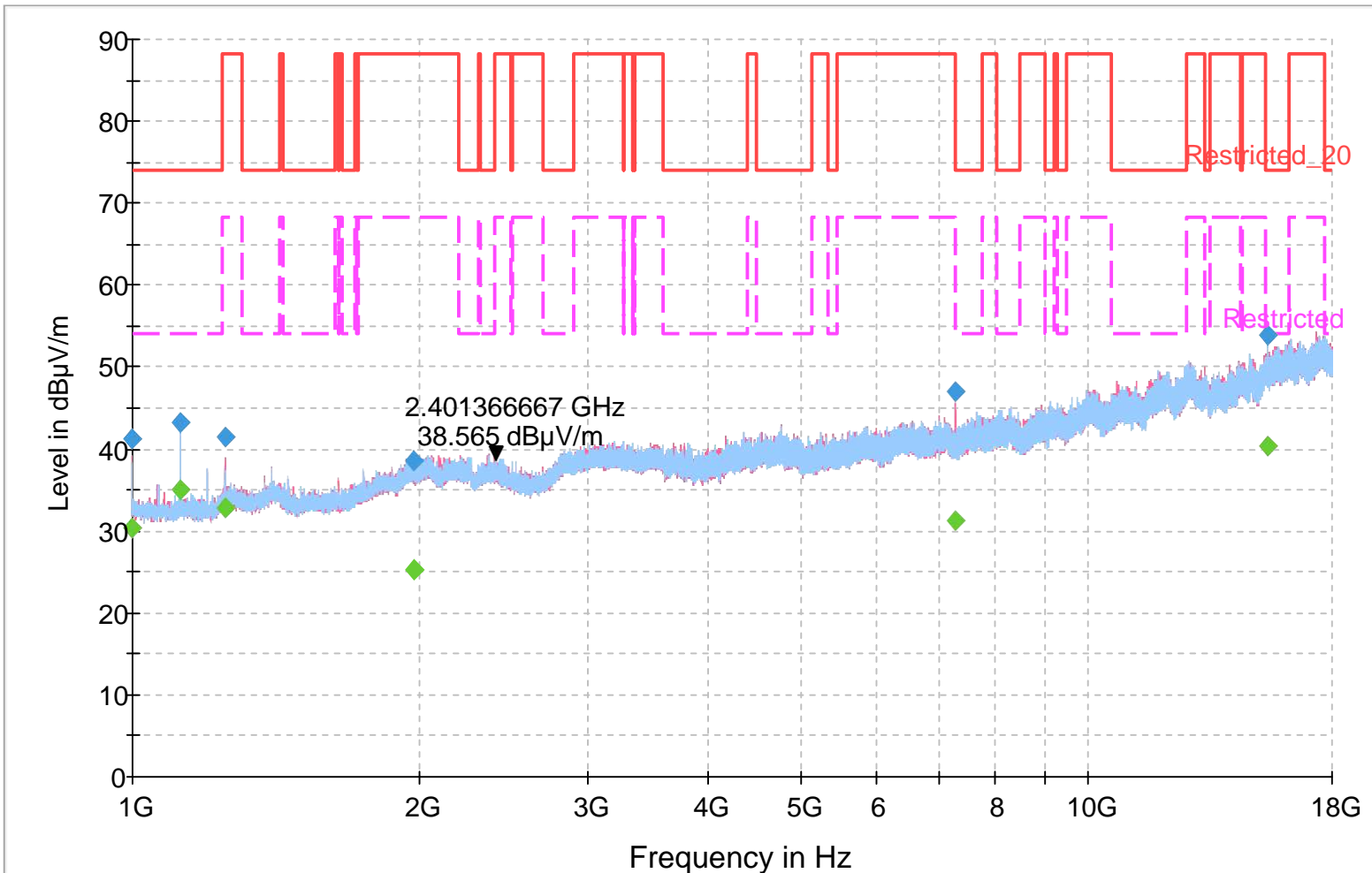
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.0	190.0	H	207.0	-4.3	32.00	74.00	
1124.666667	43.6	279.0	V	225.0	-4.5	30.40	74.00	
1199.466667	38.3	263.0	V	184.0	-3.9	35.70	74.00	
1749.700000	40.1	205.0	V	188.0	-2.0	48.10	88.20	
5898.833333	43.9	213.0	V	298.0	7.7	44.30	88.20	
15734.466667	54.7	287.0	H	179.0	21.6	19.30	74.00	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	31.9	190.0	H	207.0	-4.3	22.10	54.00	
1124.666667	36.1	279.0	V	225.0	-4.5	17.90	54.00	
1199.466667	28.5	263.0	V	184.0	-3.9	25.50	54.00	
1749.700000	29.4	205.0	V	188.0	-2.0	38.80	68.20	
5898.833333	30.4	213.0	V	298.0	7.7	37.80	68.20	
15734.466667	41.0	287.0	H	179.0	21.6	13.00	54.00	

FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- Restricted
- Final Result 1-PK+
- Preview Result 1V-PK+
- Final Result 2-AVG

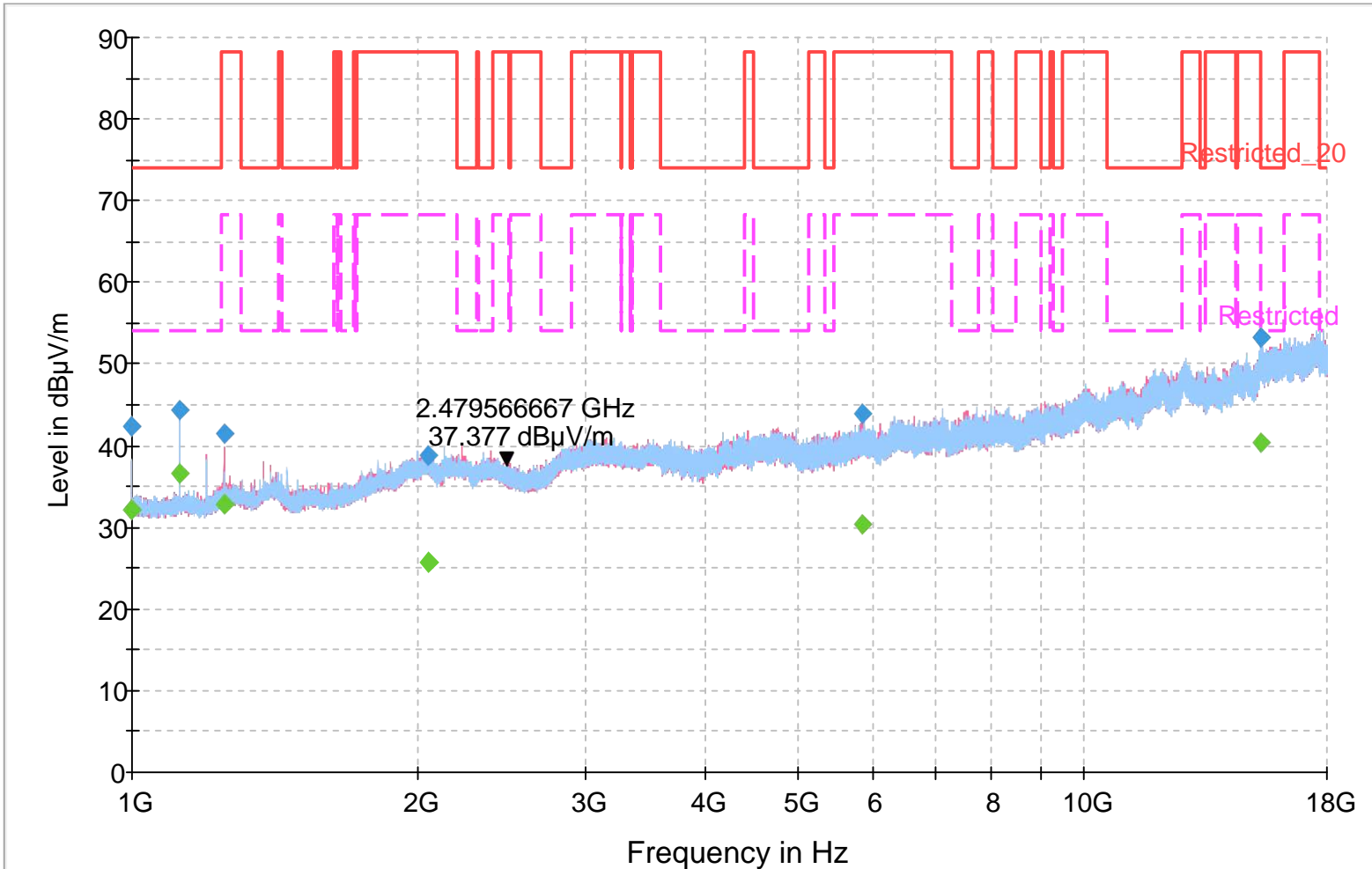
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	41.2	100.0	V	263.0	-4.3	32.80	74.00	
1124.666667	43.3	199.0	V	182.0	-4.5	30.70	74.00	
1249.900000	41.4	253.0	V	167.0	-3.2	46.80	88.20	
1967.300000	38.6	290.0	H	175.0	0.5	49.60	88.20	
7278.666667	47.0	184.0	V	15.0	9.6	27.00	74.00	
15379.733333	53.8	258.0	H	57.0	20.9	20.20	74.00	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	30.3	100.0	V	263.0	-4.3	23.70	54.00	
1124.666667	35.1	199.0	V	182.0	-4.5	18.90	54.00	
1249.900000	32.8	253.0	V	167.0	-3.2	35.40	68.20	
1967.300000	25.4	290.0	H	175.0	0.5	42.80	68.20	
7278.666667	31.2	184.0	V	15.0	9.6	22.80	54.00	
15379.733333	40.4	258.0	H	57.0	20.9	13.60	54.00	

FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

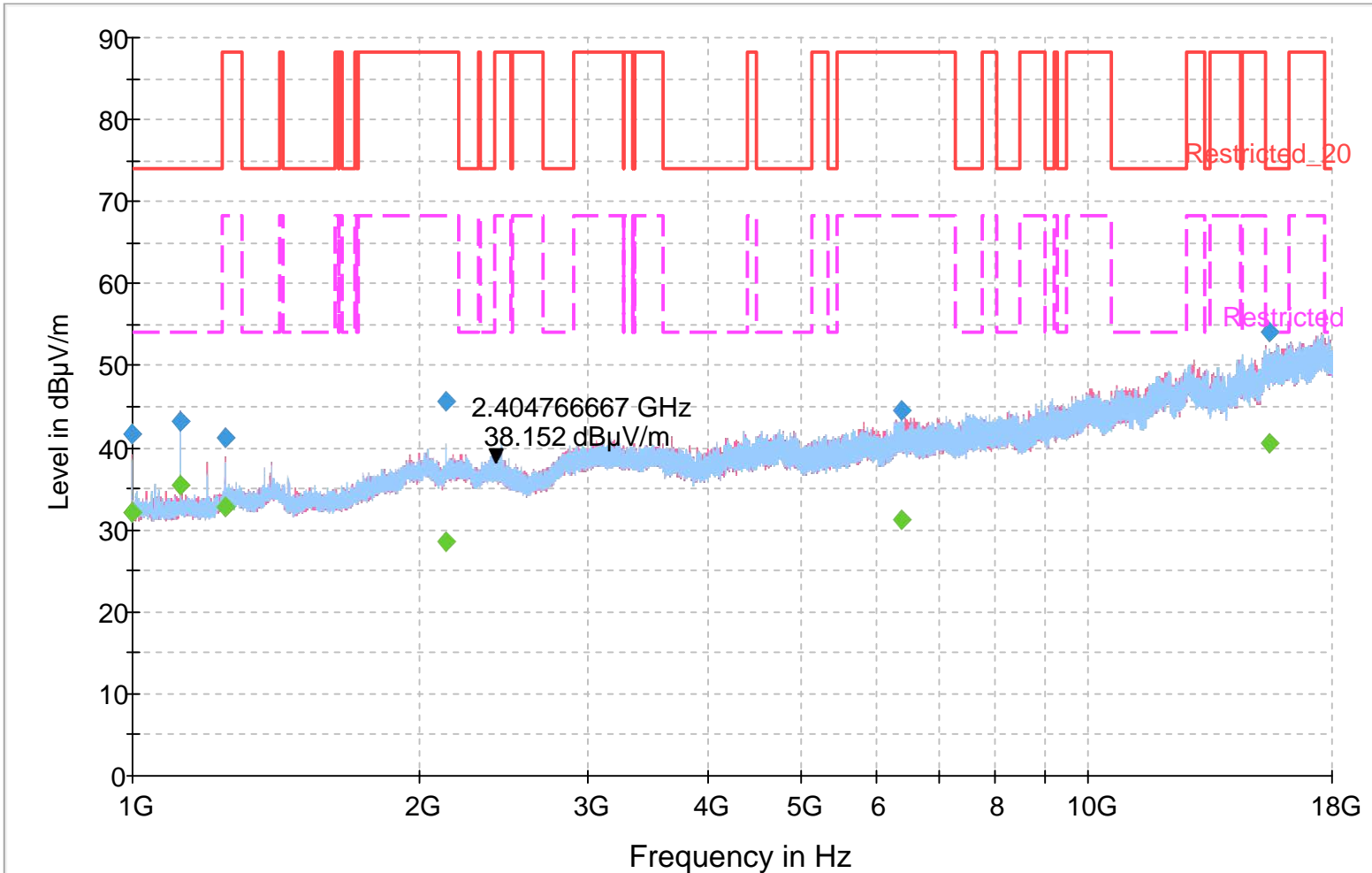
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.3	194.0	H	210.0	-4.3	31.70	74.00	
1124.666667	44.4	280.0	V	221.0	-4.5	29.60	74.00	
1249.900000	41.5	252.0	V	166.0	-3.2	46.70	88.20	
2051.166667	38.7	318.0	V	52.0	1.0	49.50	88.20	
5865.400000	43.9	128.0	V	191.0	7.5	44.30	88.20	
15348.000000	53.3	311.0	H	242.0	20.7	34.90	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	32.2	194.0	H	210.0	-4.3	21.80	54.00	
1124.666667	36.6	280.0	V	221.0	-4.5	17.40	54.00	
1249.900000	32.8	252.0	V	166.0	-3.2	35.40	68.20	
2051.166667	25.7	318.0	V	52.0	1.0	42.50	68.20	
5865.400000	30.4	128.0	V	191.0	7.5	37.80	68.20	
15348.000000	40.3	311.0	H	242.0	20.7	27.90	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG



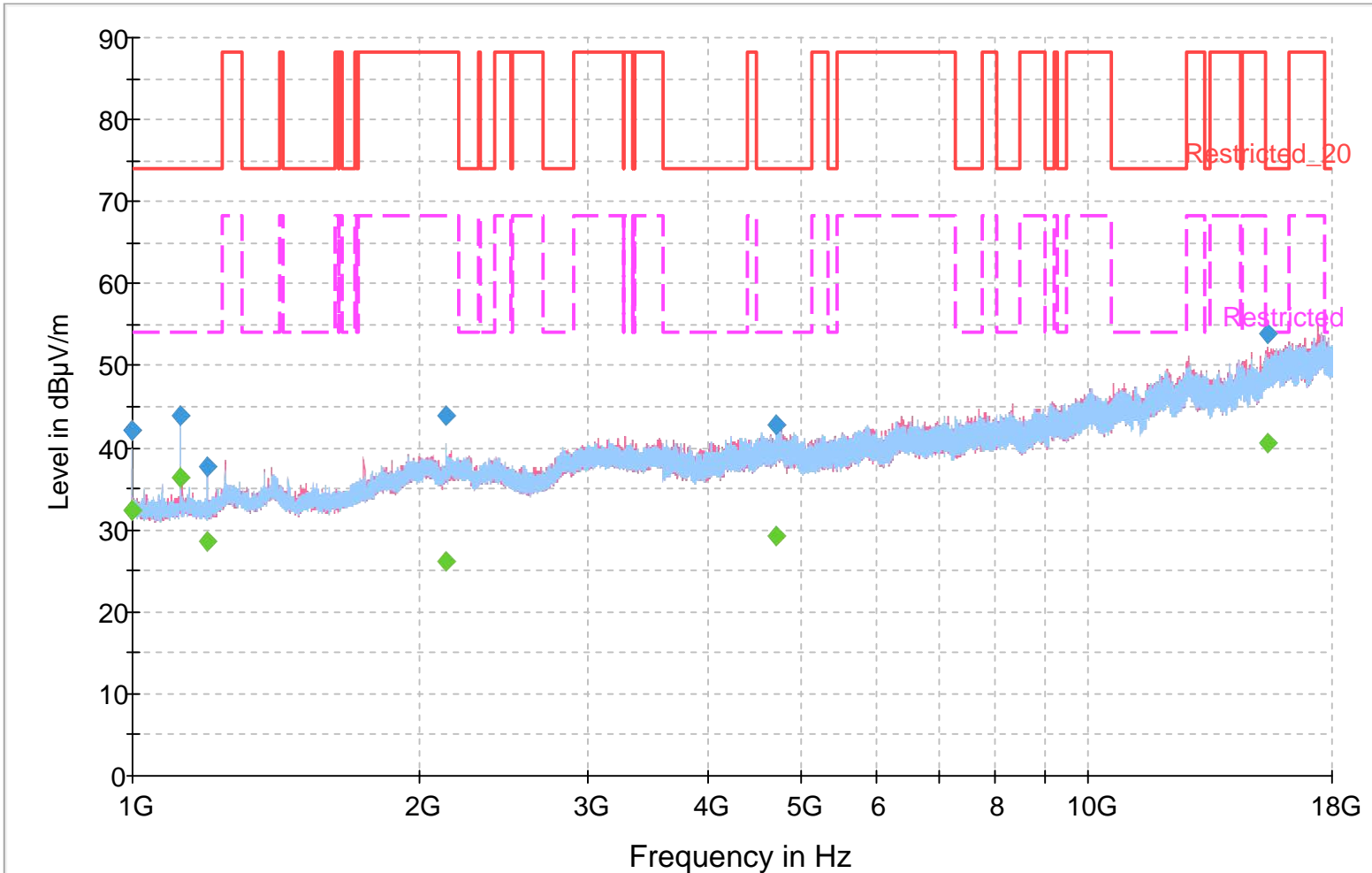
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	41.6	242.0	V	283.0	-4.3	32.40	74.00	
1124.666667	43.2	281.0	V	215.0	-4.5	30.80	74.00	
1249.900000	41.1	250.0	V	169.0	-3.2	47.10	88.20	
2132.766667	45.7	125.0	H	159.0	1.0	42.50	88.20	
6384.466667	44.5	362.0	H	113.0	8.5	43.70	88.20	
15503.833333	54.1	273.0	H	76.0	21.2	19.90	74.00	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	32.1	242.0	V	283.0	-4.3	21.90	54.00	
1124.666667	35.4	281.0	V	215.0	-4.5	18.60	54.00	
1249.900000	32.8	250.0	V	169.0	-3.2	35.40	68.20	
2132.766667	28.6	125.0	H	159.0	1.0	39.60	68.20	
6384.466667	31.2	362.0	H	113.0	8.5	37.00	68.20	
15503.833333	40.6	273.0	H	76.0	21.2	13.40	54.00	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

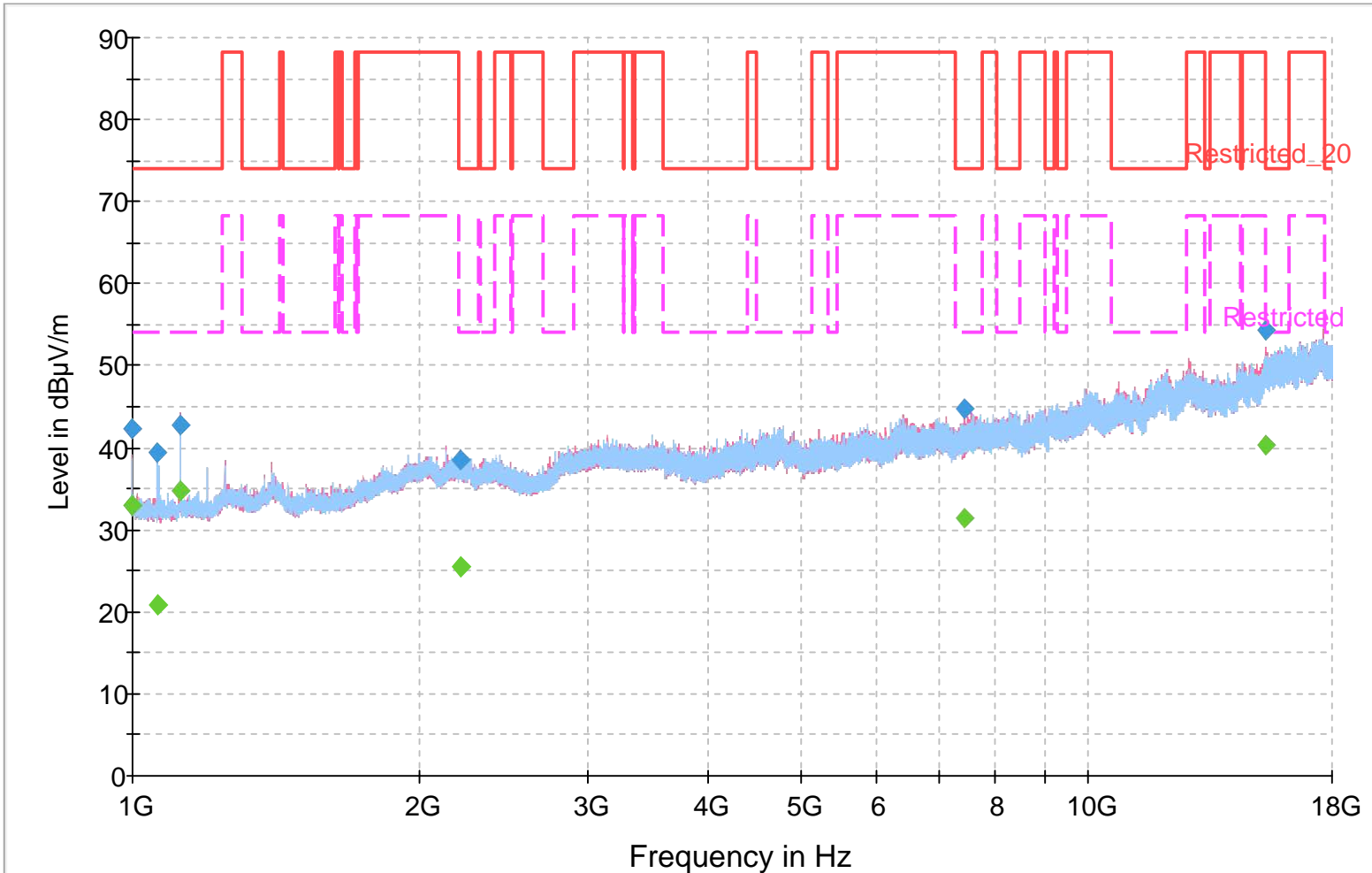
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.2	213.0	H	210.0	-4.3	31.80	74.00	
1124.666667	43.8	274.0	V	223.0	-4.5	30.20	74.00	
1199.466667	37.6	109.0	H	136.0	-3.9	36.40	74.00	
2132.766667	44.0	390.0	H	89.0	1.0	44.20	88.20	
4713.366667	42.8	137.0	H	71.0	5.6	31.20	74.00	
15376.333333	53.9	100.0	V	277.0	20.8	20.10	74.00	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	32.4	213.0	H	210.0	-4.3	21.60	54.00	
1124.666667	36.3	274.0	V	223.0	-4.5	17.70	54.00	
1199.466667	28.6	109.0	H	136.0	-3.9	25.40	54.00	
2132.766667	26.2	390.0	H	89.0	1.0	42.00	68.20	
4713.366667	29.3	137.0	H	71.0	5.6	24.70	54.00	
15376.333333	40.5	100.0	V	277.0	20.8	13.50	54.00	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

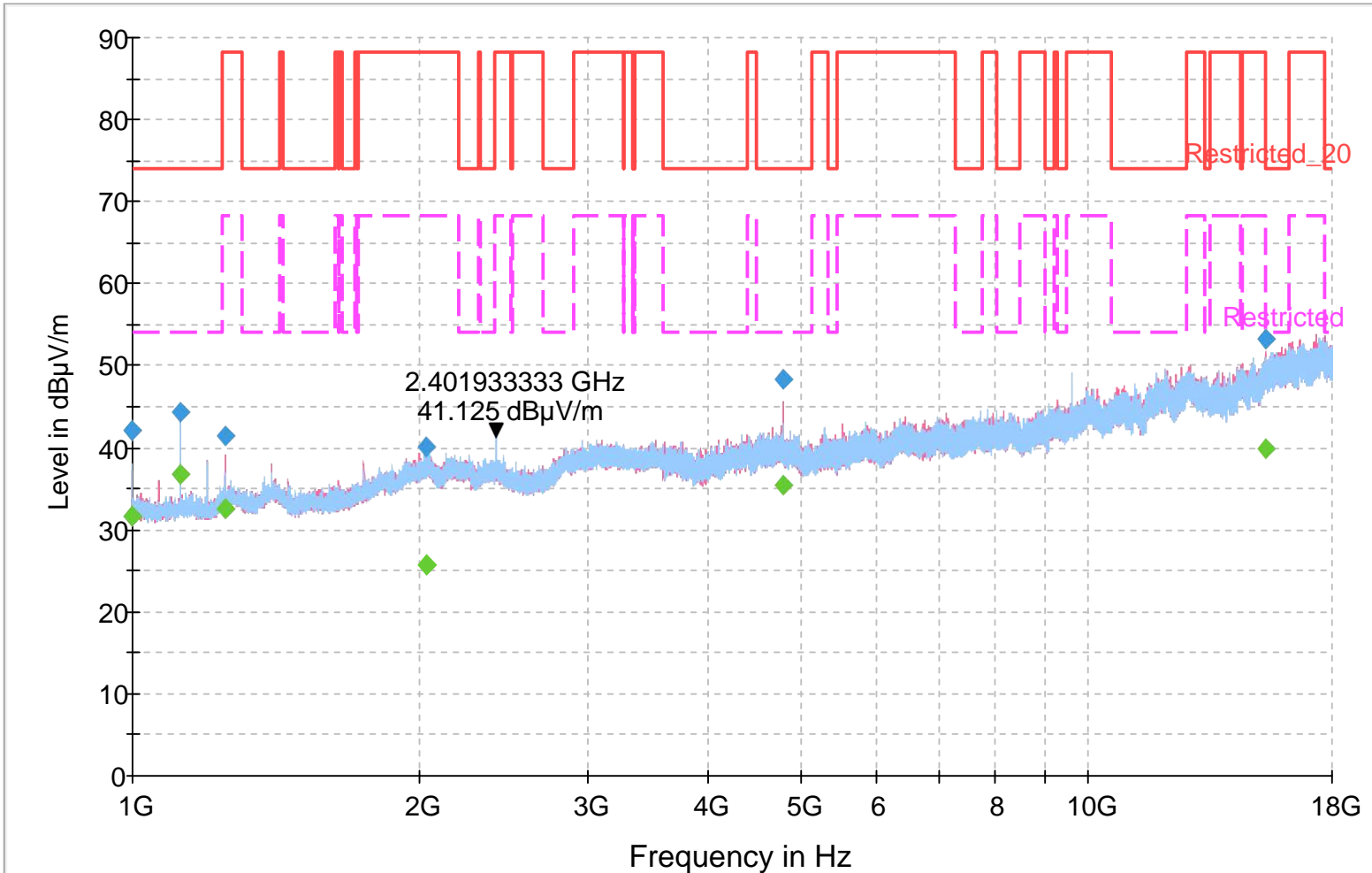
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.4	250.0	V	290.0	-4.3	31.60	74.00	
1062.900000	39.5	212.0	H	107.0	-4.5	34.50	74.00	
1124.666667	42.8	201.0	V	179.0	-4.5	31.20	74.00	
2203.600000	38.6	230.0	V	270.0	1.2	35.40	74.00	
7433.933333	44.7	280.0	V	295.0	9.7	29.30	74.00	
15341.200000	54.2	137.0	V	127.0	20.6	34.00	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	33.0	250.0	V	290.0	-4.3	21.00	54.00	
1062.900000	20.8	212.0	H	107.0	-4.5	33.20	54.00	
1124.666667	34.9	201.0	V	179.0	-4.5	19.10	54.00	
2203.600000	25.4	230.0	V	270.0	1.2	28.60	54.00	
7433.933333	31.4	280.0	V	295.0	9.7	22.60	54.00	
15341.200000	40.2	137.0	V	127.0	20.6	28.00	68.20	

FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

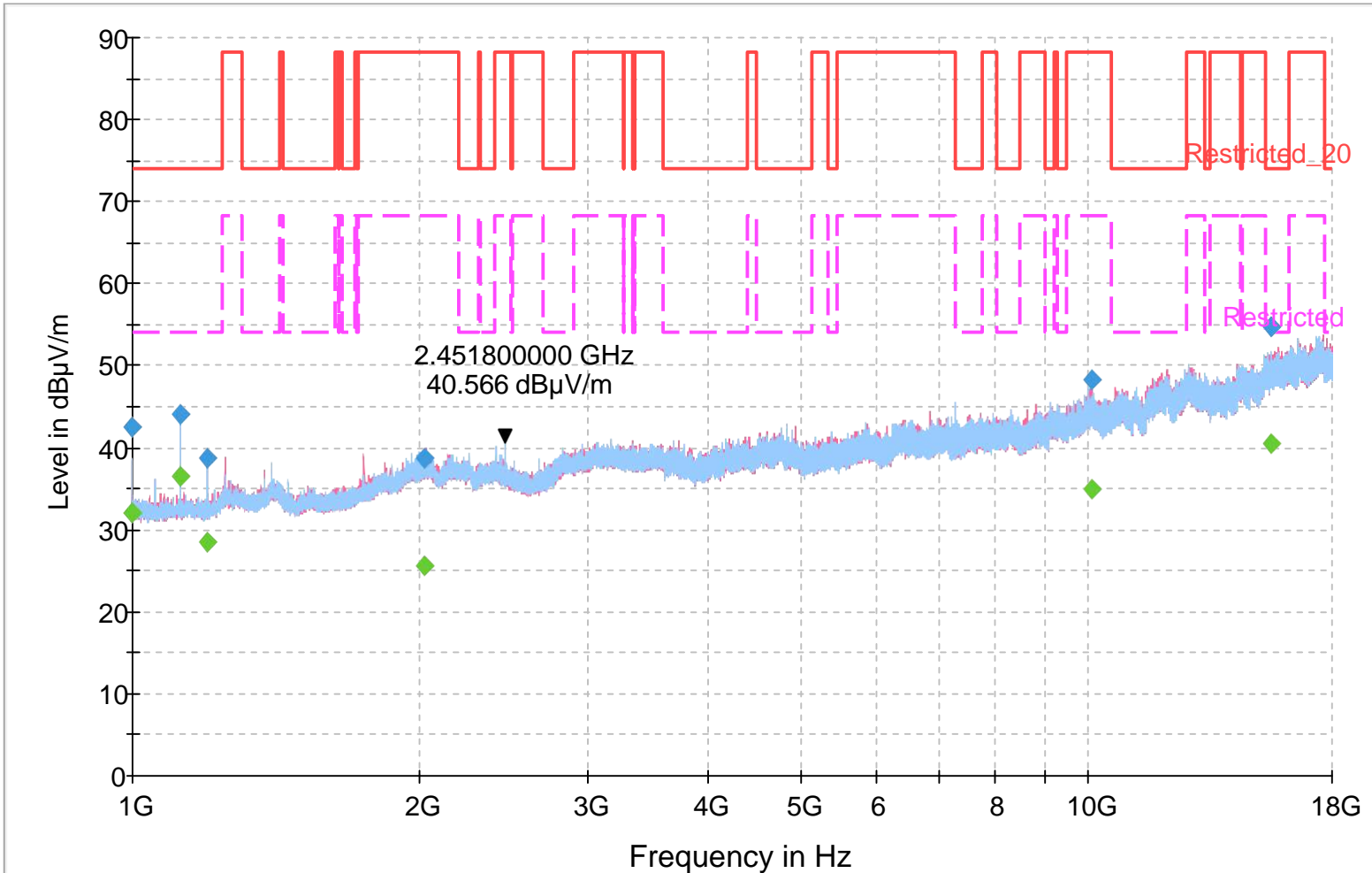
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.1	100.0	H	222.0	-4.3	31.90	74.00	
1124.666667	44.3	284.0	V	221.0	-4.5	29.70	74.00	
1249.900000	41.6	262.0	V	169.0	-3.2	46.70	88.20	
2027.933333	40.2	332.0	V	43.0	1.0	48.00	88.20	
4804.600000	48.3	118.0	V	187.0	5.7	25.70	74.00	
15307.766667	53.2	349.0	V	85.0	20.5	35.00	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	31.6	100.0	H	222.0	-4.3	22.40	54.00	
1124.666667	36.8	284.0	V	221.0	-4.5	17.20	54.00	
1249.900000	32.6	262.0	V	169.0	-3.2	35.60	68.20	
2027.933333	25.7	332.0	V	43.0	1.0	42.50	68.20	
4804.600000	35.4	118.0	V	187.0	5.7	18.60	54.00	
15307.766667	40.0	349.0	V	85.0	20.5	28.20	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG



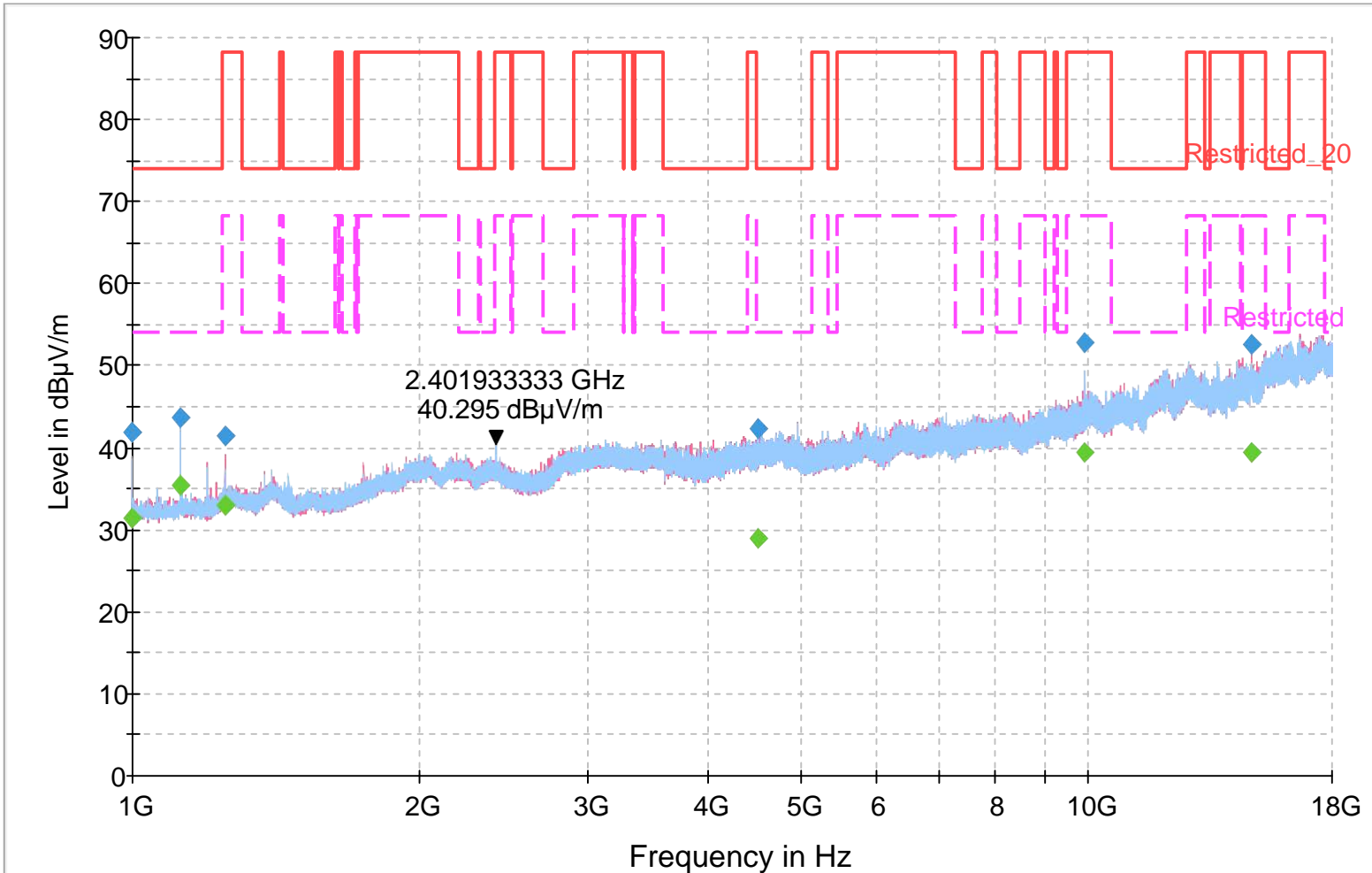
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.5	207.0	H	209.0	-4.3	31.50	74.00	
1124.666667	44.0	292.0	V	223.0	-4.5	30.00	74.00	
1199.466667	38.7	266.0	V	184.0	-3.9	35.30	74.00	
2020.566667	38.9	165.0	H	29.0	1.1	49.30	88.20	
10100.100000	48.3	114.0	V	220.0	14.5	39.90	88.20	
15551.433333	54.7	261.0	H	148.0	21.2	19.30	74.00	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	32.2	207.0	H	209.0	-4.3	21.80	54.00	
1124.666667	36.6	292.0	V	223.0	-4.5	17.50	54.00	
1199.466667	28.7	266.0	V	184.0	-3.9	25.30	54.00	
2020.566667	25.7	165.0	H	29.0	1.1	42.50	68.20	
10100.100000	35.1	114.0	V	220.0	14.5	33.10	68.20	
15551.433333	40.6	261.0	H	148.0	21.2	13.40	54.00	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

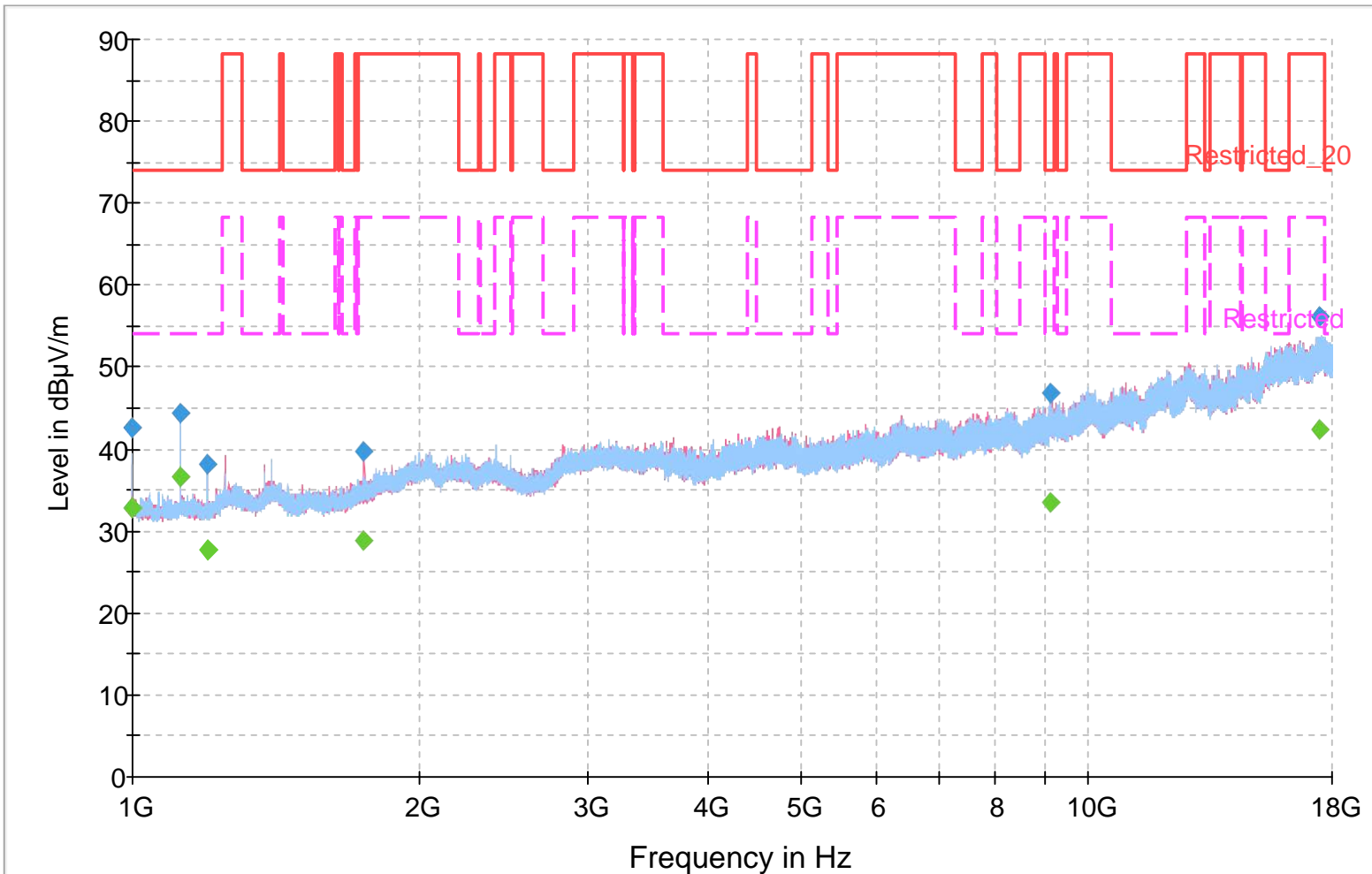
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	41.8	341.0	V	185.0	-4.3	32.20	74.00	
1124.666667	43.7	198.0	V	180.0	-4.5	30.30	74.00	
1249.900000	41.6	253.0	V	169.0	-3.2	46.60	88.20	
4513.900000	42.3	259.0	H	80.0	5.3	31.70	74.00	
9918.766667	52.8	196.0	V	1.0	14.0	35.40	88.20	
14806.833333	52.6	148.0	V	144.0	20.2	35.60	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	31.4	341.0	V	185.0	-4.3	22.60	54.00	
1124.666667	35.4	198.0	V	180.0	-4.5	18.60	54.00	
1249.900000	33.1	253.0	V	169.0	-3.2	35.10	68.20	
4513.900000	29.0	259.0	H	80.0	5.3	25.00	54.00	
9918.766667	39.4	196.0	V	1.0	14.0	28.80	68.20	
14806.833333	39.4	148.0	V	144.0	20.2	28.80	68.20	

### FCC Class B Radiated Sweep 1GHz-18GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

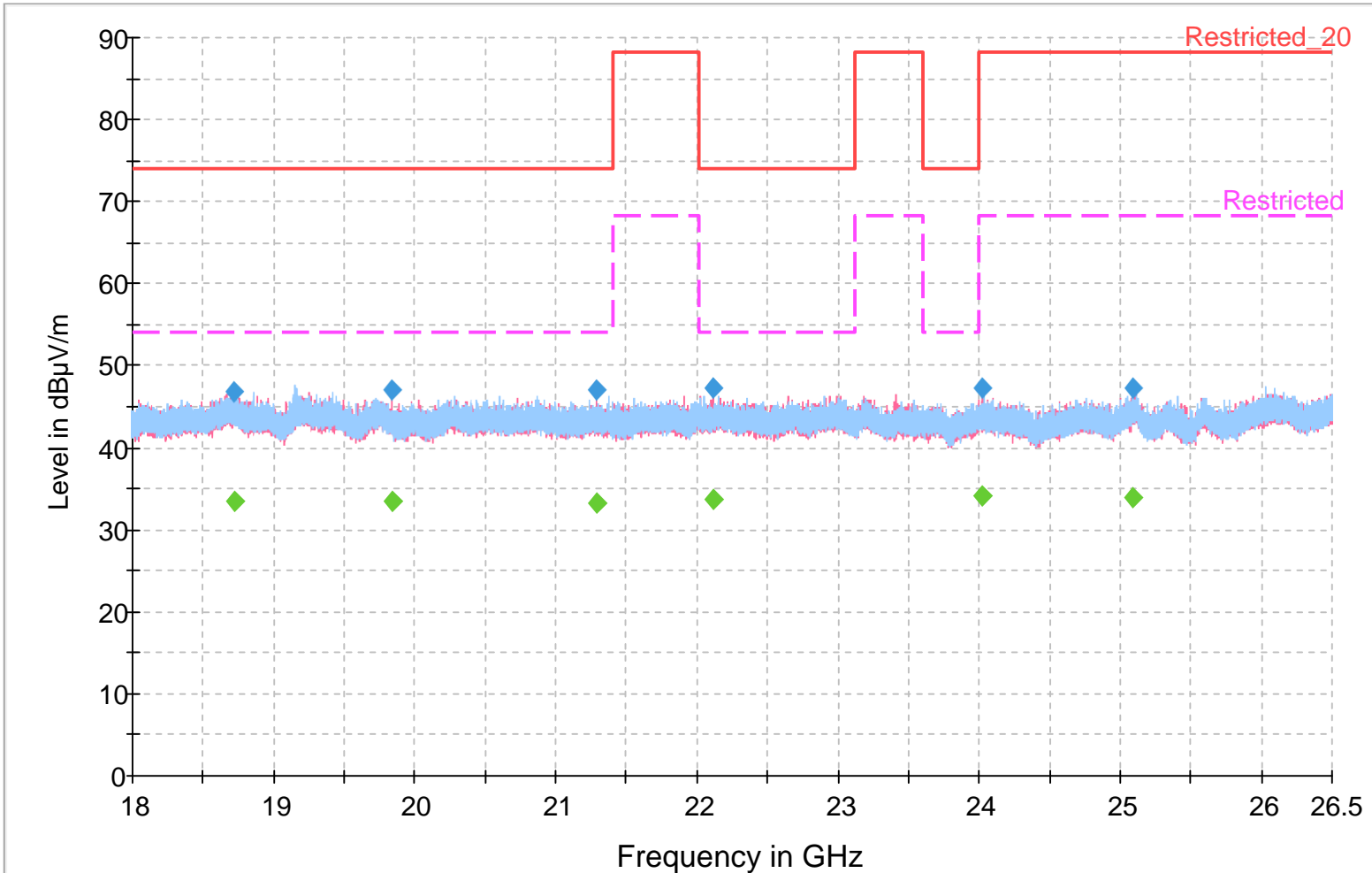
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	42.6	209.0	H	214.0	-4.3	31.40	74.00	
1124.666667	44.2	273.0	V	221.0	-4.5	29.80	74.00	
1199.466667	38.2	255.0	V	178.0	-3.9	35.80	74.00	
1749.700000	39.7	205.0	V	193.0	-2.0	48.50	88.20	
9123.733333	46.9	200.0	V	89.0	12.5	27.10	74.00	
17435.033333	56.0	217.0	V	189.0	23.1	32.20	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
1000.000000	32.7	209.0	H	214.0	-4.3	21.30	54.00	
1124.666667	36.5	273.0	V	221.0	-4.5	17.50	54.00	
1199.466667	27.8	255.0	V	178.0	-3.9	26.20	54.00	
1749.700000	28.7	205.0	V	193.0	-2.0	39.50	68.20	
9123.733333	33.5	200.0	V	89.0	12.5	20.50	54.00	
17435.033333	42.4	217.0	V	189.0	23.1	25.80	68.20	

### FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

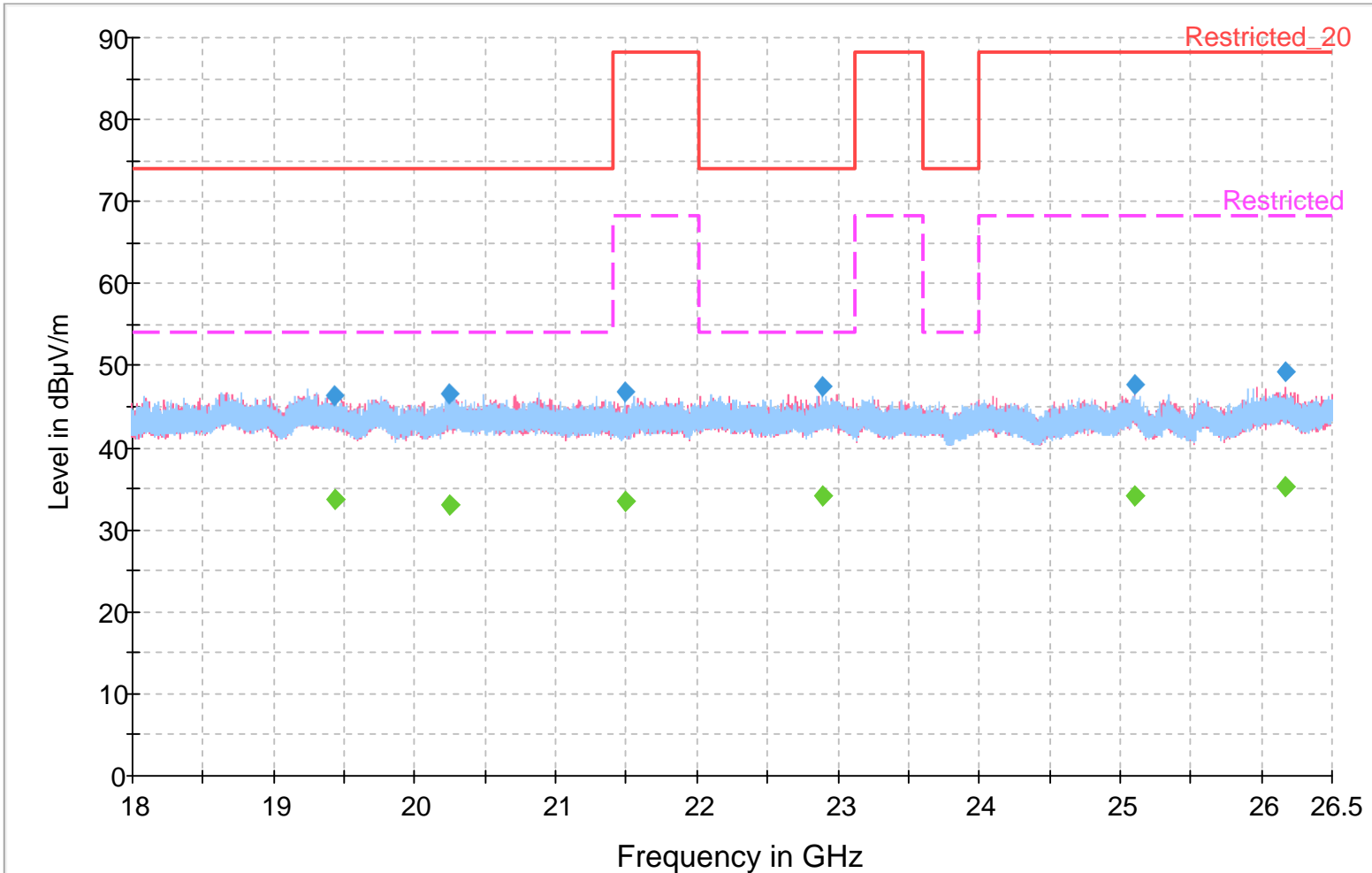
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18729.300000	46.7	114.0	H	278.0	9.8	27.30	74.00	
19837.700000	47.1	195.0	V	339.0	10.0	26.90	74.00	
21293.325000	47.0	266.0	V	211.0	10.0	27.00	74.00	
22122.500000	47.2	100.0	V	336.0	10.5	26.80	74.00	
24023.525000	47.3	176.0	V	234.0	10.5	40.90	88.20	
25083.900000	47.3	169.0	H	166.0	10.5	40.90	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18729.300000	33.5	114.0	H	278.0	9.8	20.50	54.00	
19837.700000	33.5	195.0	V	339.0	10.0	20.50	54.00	
21293.325000	33.3	266.0	V	211.0	10.0	20.70	54.00	
22122.500000	33.8	100.0	V	336.0	10.5	20.20	54.00	
24023.525000	34.1	176.0	V	234.0	10.5	34.10	68.20	
25083.900000	33.9	169.0	H	166.0	10.5	34.30	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG



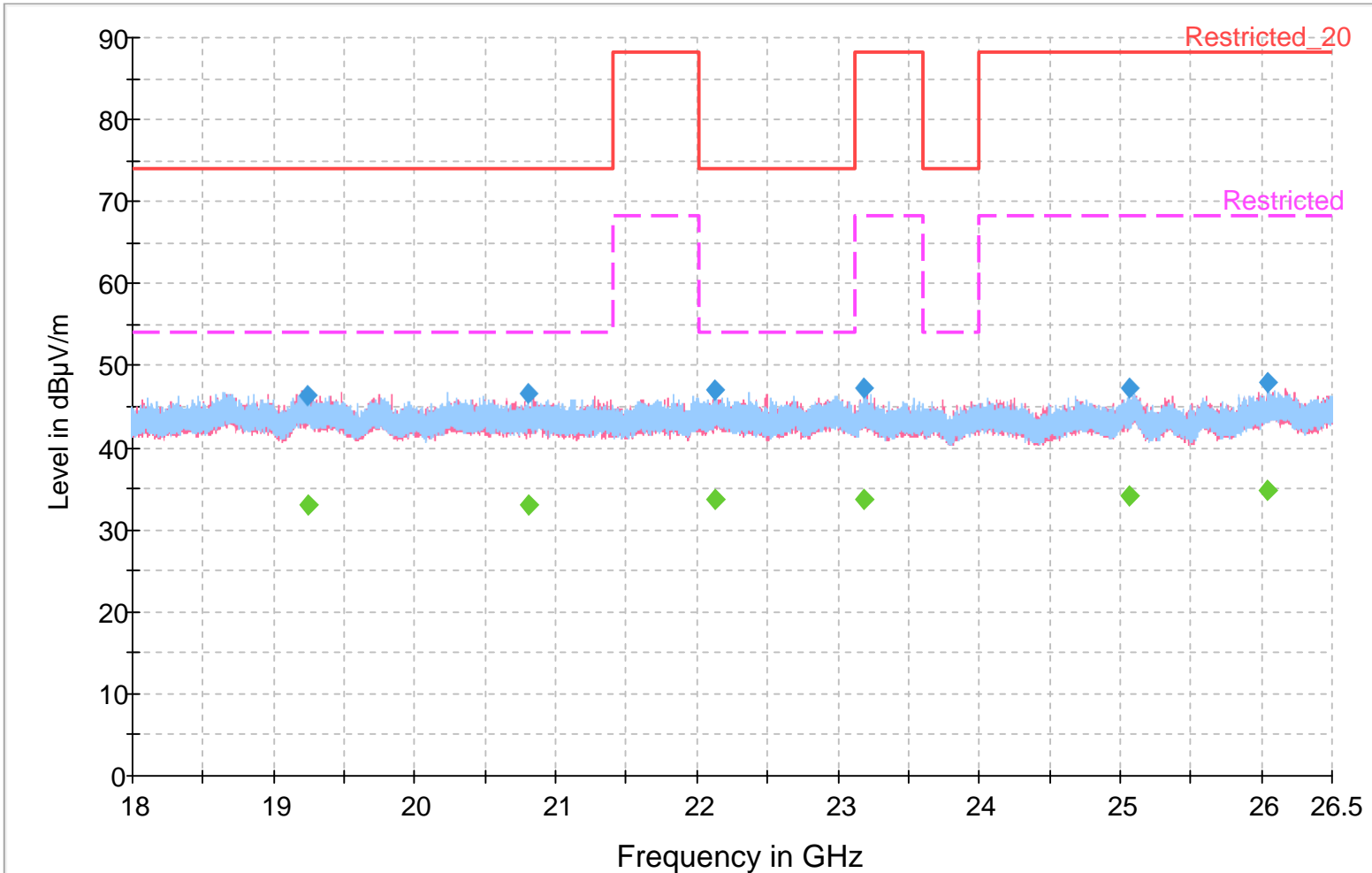
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19441.175000	46.4	264.0	H	211.0	10.0	27.60	74.00	
20252.500000	46.5	225.0	H	290.0	9.9	27.50	74.00	
21487.975000	46.8	161.0	H	317.0	10.3	41.40	88.20	
22889.200000	47.5	126.0	H	305.0	10.8	26.50	74.00	
25104.300000	47.7	114.0	V	263.0	10.5	40.50	88.20	
26168.075000	49.3	149.0	V	286.0	11.8	38.90	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19441.175000	33.7	264.0	H	211.0	10.0	20.30	54.00	
20252.500000	33.0	225.0	H	290.0	9.9	21.00	54.00	
21487.975000	33.4	161.0	H	317.0	10.3	34.80	68.20	
22889.200000	34.2	126.0	H	305.0	10.8	19.80	54.00	
25104.300000	34.1	114.0	V	263.0	10.5	34.10	68.20	
26168.075000	35.2	149.0	V	286.0	11.8	33.00	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG

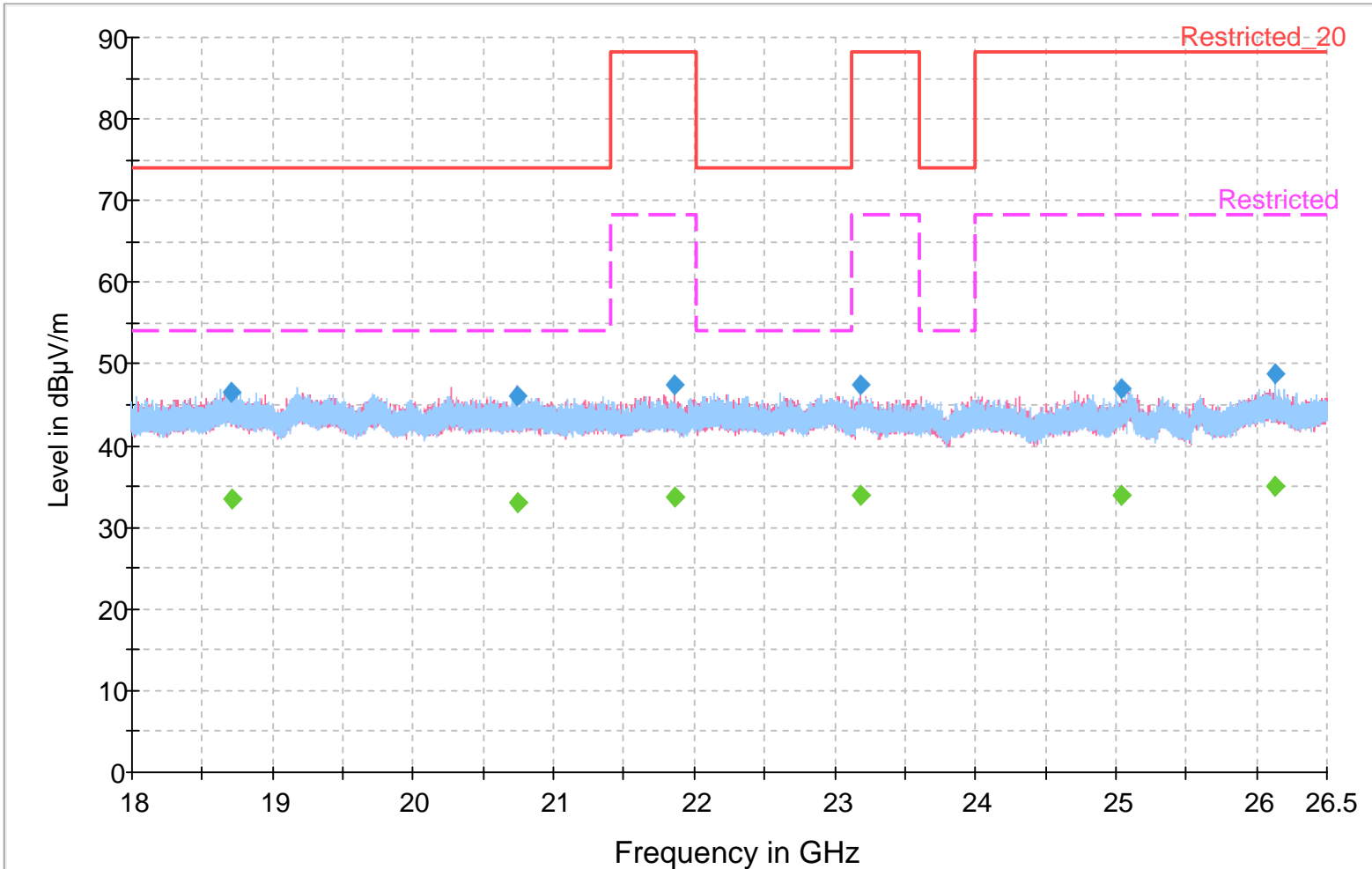
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19242.275000	46.3	197.0	H	39.0	10.1	27.70	74.00	
20806.700000	46.5	245.0	H	99.0	10.0	27.50	74.00	
22134.825000	47.0	240.0	H	353.0	10.5	27.00	74.00	
23184.575000	47.2	224.0	H	136.0	10.7	41.00	88.20	
25062.650000	47.3	254.0	V	84.0	10.5	40.90	88.20	
26041.425000	48.0	100.0	H	21.0	11.3	40.20	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
19242.275000	33.1	197.0	H	39.0	10.1	20.90	54.00	
20806.700000	33.1	245.0	H	99.0	10.0	20.90	54.00	
22134.825000	33.8	240.0	H	353.0	10.5	20.20	54.00	
23184.575000	33.7	224.0	H	136.0	10.7	34.50	68.20	
25062.650000	34.2	254.0	V	84.0	10.5	34.00	68.20	
26041.425000	34.7	100.0	H	21.0	11.3	33.50	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      — Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

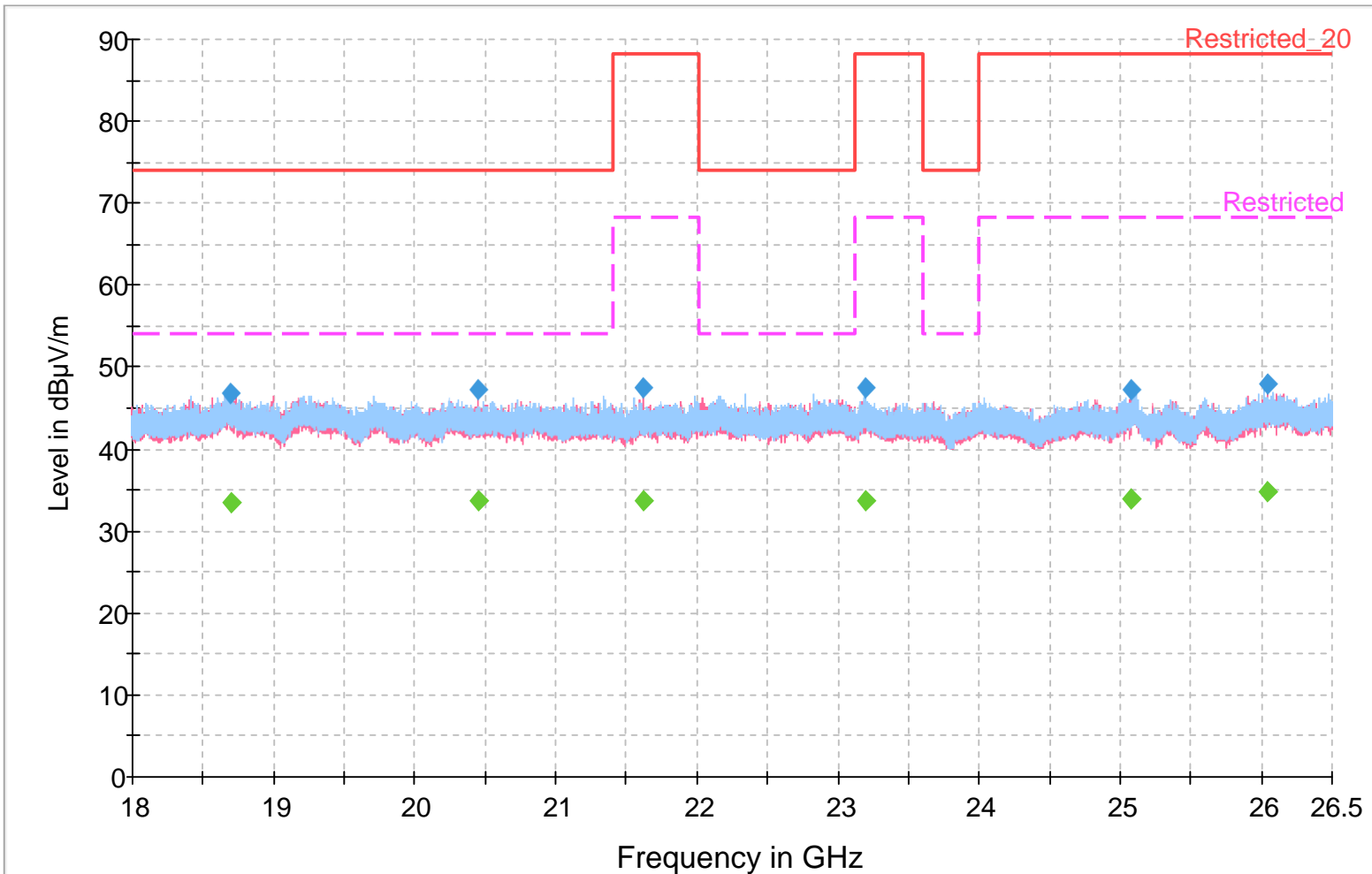
**Final Result 1**

Frequency (MHz)	MaxPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18710.600000	46.7	185.0	H	182.0	9.8	27.30	74.00	
20740.400000	46.1	254.0	V	53.0	9.9	27.90	74.00	
21866.225000	47.5	300.0	V	277.0	10.6	40.70	88.20	
23179.050000	47.3	229.0	V	39.0	10.8	40.90	88.20	
25043.525000	47.1	252.0	V	20.0	10.5	41.10	88.20	
26133.225000	48.8	206.0	H	244.0	11.6	39.40	88.20	

**Final Result 2**

Frequency (MHz)	Average (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
18710.600000	33.4	185.0	H	182.0	9.8	20.60	54.00	
20740.400000	33.1	254.0	V	53.0	9.9	20.90	54.00	
21866.225000	33.7	300.0	V	277.0	10.6	34.50	68.20	
23179.050000	33.8	229.0	V	39.0	10.8	34.40	68.20	
25043.525000	34.0	252.0	V	20.0	10.5	34.20	68.20	
26133.225000	34.9	206.0	H	244.0	11.6	33.30	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted\_20      - - - Restricted      - - - Preview Result 1V-PK+  
— Preview Result 1H-PK+      ◆ Final Result 1-PK+      ◆ Final Result 2-AVG

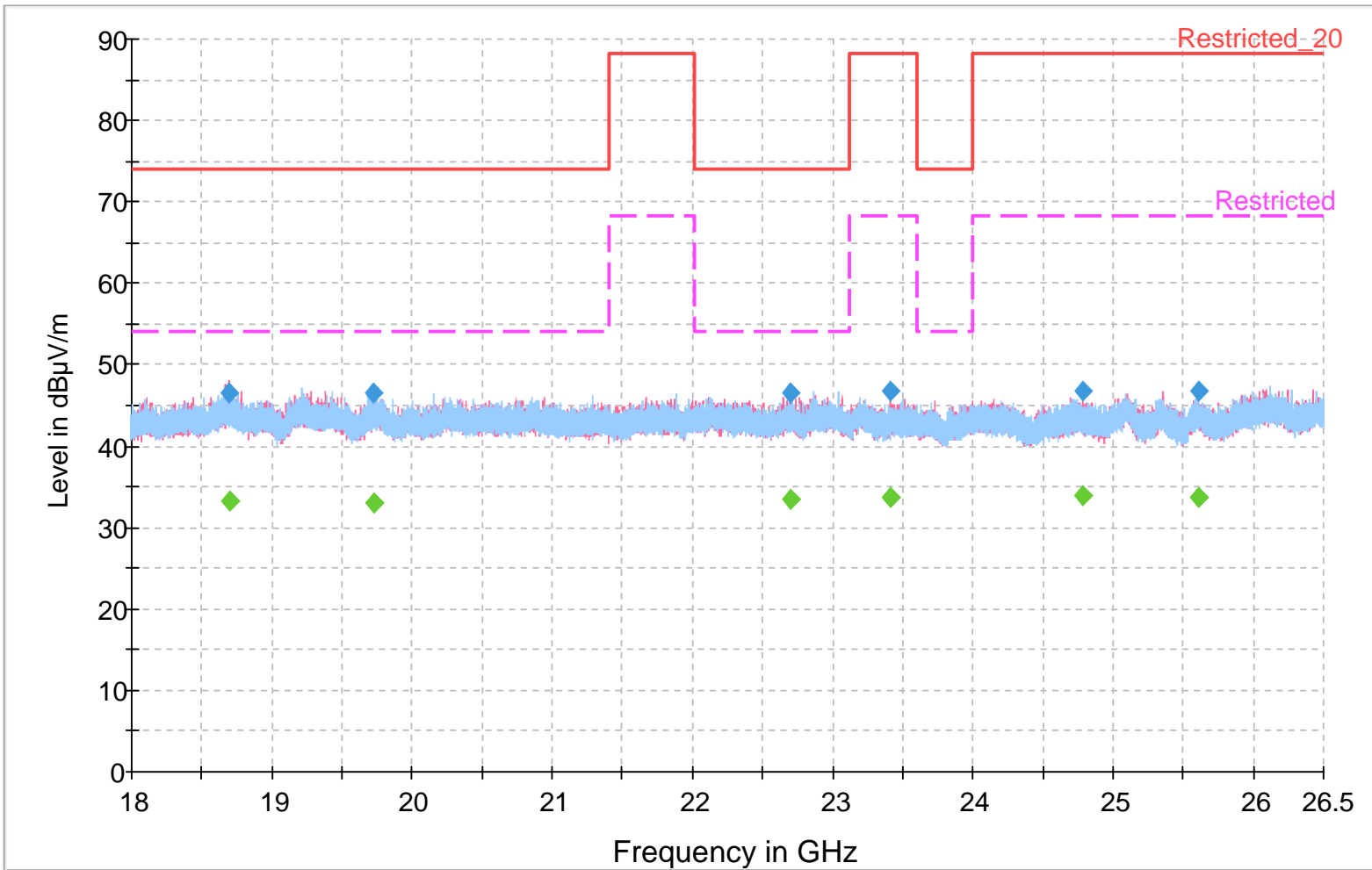
**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18693.175000	46.8	110.0	H	261.0	9.7	27.20	74.00	
20453.525000	47.2	129.0	V	12.0	10.2	26.80	74.00	
21626.100000	47.4	224.0	V	217.0	10.2	40.80	88.20	
23196.050000	47.4	110.0	H	216.0	10.7	40.80	88.20	
25082.200000	47.2	228.0	V	211.0	10.5	41.00	88.20	
26047.800000	47.8	133.0	V	48.0	11.3	40.40	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18693.175000	33.4	110.0	H	261.0	9.7	20.60	54.00	
20453.525000	33.7	129.0	V	12.0	10.2	20.30	54.00	
21626.100000	33.6	224.0	V	217.0	10.2	34.60	68.20	
23196.050000	33.7	110.0	H	216.0	10.7	34.50	68.20	
25082.200000	34.0	228.0	V	211.0	10.5	34.20	68.20	
26047.800000	34.7	133.0	V	48.0	11.3	33.50	68.20	

### FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



- Restricted\_20
- Preview Result 1H-PK+
- - - Restricted
- ◆ Final Result 1-PK+
- Preview Result 1V-PK+
- ◆ Final Result 2-AVG



**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18700.825000	46.5	193.0	V	94.0	9.8	27.50	74.00	
19723.800000	46.6	294.0	V	85.0	9.8	27.40	74.00	
22699.225000	46.6	290.0	V	254.0	10.6	27.40	74.00	
23409.825000	46.9	275.0	V	168.0	10.6	41.30	88.20	
24781.725000	46.9	110.0	V	311.0	10.7	41.30	88.20	
25608.775000	46.7	205.0	V	295.0	10.6	41.50	88.20	

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Comment
18700.825000	33.3	193.0	V	94.0	9.8	20.70	54.00	
19723.800000	33.1	294.0	V	85.0	9.8	20.90	54.00	
22699.225000	33.6	290.0	V	254.0	10.6	20.40	54.00	
23409.825000	33.7	275.0	V	168.0	10.6	34.50	68.20	
24781.725000	34.0	110.0	V	311.0	10.7	34.20	68.20	
25608.775000	33.6	205.0	V	295.0	10.6	34.60	68.20	