

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

AlphaTheta Corporation

Professional portable DJ speaker system

Model Number: WAVE-EIGHT

FCC ID: 2AM73-WAVEEIGHT

Applicant :	AlphaTheta Corporation
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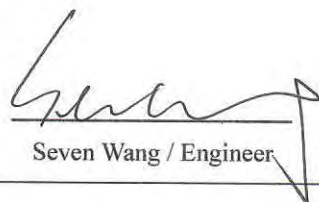
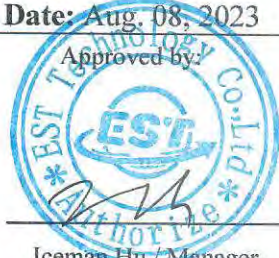
Report Number:	ESTE-R2308107
Date of Test:	Jun. 19~Aug. 07, 2023
Date of Report:	Aug. 08, 2023

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EST Technology Co., Ltd.

Applicant:	AlphaTheta Corporation		
Address:	6F, Yokohama i-Mark Place, 4-4-5 Minatomirai, Nishi-ku, Yokohama Kanagawa, 220-0012 Japan		
Manufacturer:	AlphaTheta Corporation		
Address:	6F, Yokohama i-Mark Place, 4-4-5 Minatomirai, Nishi-ku, Yokohama Kanagawa, 220-0012 Japan		
E.U.T:	Professional portable DJ speaker system		
Model Number:	WAVE-EIGHT		
Power Supply:	110-240V~, 50/60Hz, 100W or 100V~, 50/60Hz, 100W DC 10.8V From Battery		
Trade Name:	 AlphaTheta	Serial No.:	EST-230111005-005
Date of Receipt:	Jun. 19, 2023	Date of Test:	Jun. 19~Aug. 07, 2023
Test Specification:	FCC Part 15 Subpart C (15.247) ANSI C63.10:2013 FCC KDB 558074 D01 15.247 Meas Guidance v05r02		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		
Prepared by:	Reviewed by:	Date: Aug. 08, 2023	
 Ring Yang / Assistant	 Seven Wang / Engineer	Approved by:  Iceman Hu / Manager	
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Professional portable DJ speaker system
Model Number	:	WAVE-EIGHT
Software Version	:	N/A
Hardware Version	:	N/A
Operation frequency	:	2402MHz~2480MHz
Number of channel	:	79
Max Output Power (PEAK)	:	7.16dBm
Modulation Type	:	BT BDR(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK
Sample Type	:	Prototype production

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	INPAQ TECHNOLOGY Co.,Ltd	WA-F-LA-02-022	Integral	IPEX	4.37

Note: This information is provided by the applicant.

1.3. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	AlphaTheta Corporation
Note: 1. The customer declared the loss value of the RF Cable, and the test results of this report only apply to the sample as received. 2. This information is provided by the applicant.	

2. SUMMARY OF TEST

2.1. Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	Maximum Peak Output Power	15.247(a)(1)	PASS
2	20dB Bandwidth	15.247(a)(1)	PASS
3	Carrier Frequency Separation	15.247(a)(1)	PASS
4	Number Of Hopping Channel	15.247(a)(1)(iii)	PASS
5	Dwell Time	15.247(a)(1)(iii)	PASS
6	Conducted Band Edge	15.247(d)	PASS
7	Conducted Spurious Emissions	15.247(d)	PASS
8	Radiated Spurious Emissions and Band Edge	15.205 15.209 15.247(d)	PASS
9	AC Power Line Conducted Emissions	15.207	PASS
10	Antenna Requirement	15.203	PASS

Note:“N/A” denotes test is not applicable in this test report.

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA
Designation Number: CN1215
This Certificate is valid until: January 31, 2024

Certificated by A2LA, USA
Registration No.: 4366.01
This Certificate is valid until: January 31, 2024

Certificated by Industry Canada
CAB identifier No.: CN0035
This Certificate is valid until: January 31, 2024

Certificated by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Certificate is valid until: Apr. 19, 2026

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	$\pm 3.48\text{dB}$
Uncertainty for spurious emissions test (Below 30MHz)	$\pm 1.62\text{ dB}$
Uncertainty for spurious emissions test (30MHz-1GHz)	$\pm 4.60\text{ dB(Polarize: H)}$
	$\pm 4.68\text{ dB(Polarize: V)}$
Uncertainty for spurious emissions test (1GHz to 25GHz)	$\pm 4.96\text{dB}$
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB

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

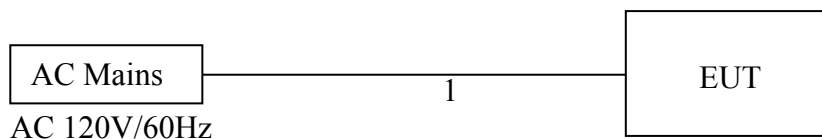
2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/ Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	AC Cable

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into Bluetooth test mode by software before test.



(EUT: Professional portable DJ speaker system)

2.6. Test mode

Combining all the rates, modulations, and packet types, the Pre-scans had been carried out. The worst case test mode was selected for the final test as listed below.

Test Item	Modulation Type	Operating Mode	Packet Type	Test Channel
Maximum Peak Output Power	GFSK& $\pi/4$ -DQPSK &8-DPSK	Non Hopping	DH5	Low/Middle/High
20dB Bandwidth	GFSK& $\pi/4$ -DQPSK &8-DPSK	Non Hopping	DH5	Low/Middle/High
Carrier Frequency Separation	GFSK& $\pi/4$ -DQPSK &8-DPSK	Hopping	DH5	Low/Middle/High
Number Of Hopping Channel	GFSK& $\pi/4$ -DQPSK &8-DPSK	Hopping	DH5	All Channel Hopping
Dwell Time	GFSK& $\pi/4$ -DQPSK &8-DPSK	Hopping	DH1/DH3/DH5	Middle(All Channel Hopping)
Conducted Band Edge	GFSK& $\pi/4$ -DQPSK &8-DPSK	Non Hopping& Hopping	DH5	Low/ High& All Channel Hopping
Conducted Spurious Emissions	GFSK& $\pi/4$ -DQPSK &8-DPSK	Non Hopping	DH5	Low/Middle/High
Radiated Spurious Emissions(Below 1GHz)	GFSK& $\pi/4$ -DQPSK &8-DPSK	Non Hopping	DH5	Low/Middle/High
Radiated Spurious Emissions(Above 1GHz)	GFSK& $\pi/4$ -DQPSK &8-DPSK	Non Hopping	DH5	Low/Middle/High
Radiated Band Edge	GFSK& $\pi/4$ -DQPSK &8-DPSK	Non Hopping	DH5	Low/High
AC Power Line Conducted Emissions	GFSK& $\pi/4$ -DQPSK &8-DPSK	Non Hopping	DH5	Low/Middle/High

Note: In radiated measurement,the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7. Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

2.8. Power Setting of Test Software

Software Name	Qualcomm BlueSuite 3.3.9		
Frequency(MHz)	2402	2441	2480
GFSK(1Mbps) Setting	4	4	4
$\pi/4$ -DQPSK(2Mbps) Setting	4	4	4
8-DPSK(3Mbps) Setting	4	4	4

Note: This information is provided by the applicant.

2.9. Test Equipment

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 12,23	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 12,23	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9 kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Active Loop Antenna	SCHWARZB ECK	FMZB 1519B	EST-E054	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA9120D	EST-E144	LISAI	June 12,23	1 Year
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 12,23	1 Year
Low Noise Amplifier	RF	TRLA-01018 0G45N	EST-E142	LISAI	June 12,23	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

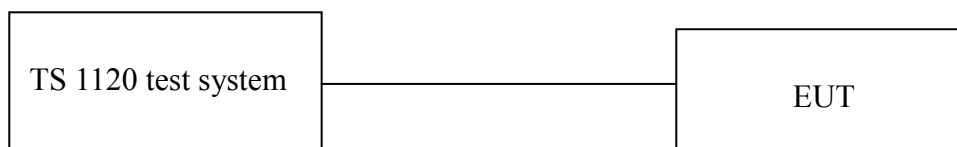
For connect EUT antenna terminal test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.2.22.0	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 12,23	1 Year
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 12,23	1 Year

3. MAXIMUM PEAK OUTPUT POWER

3.1. Limit

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.

3.2. Test Setup



3.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	3MHz
VBW	3MHz
Span	7.5MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

3.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

3.5. Test Result

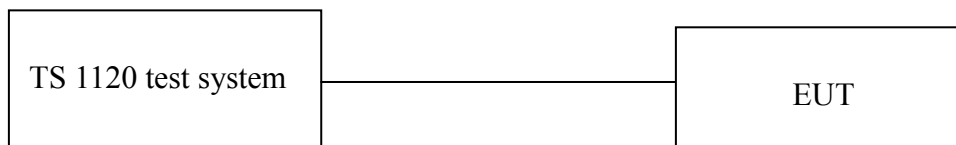
Refer to section 13: Appendix A

4. 20 DB BANDWIDTH

4.1. Limit

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.

4.2. Test Setup



4.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	30KHz
VBW	100KHz
Span	3MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

4.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the ndB down function to measure 20dB Bandwidth.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

4.5. Test Result

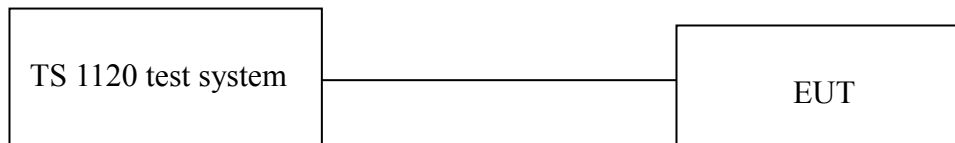
Refer to section 13: Appendix B

5. CARRIER FREQUENCY SEPARATION

5.1. Limit

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.

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	30KHz
VBW	100KHz
Span	3MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

5.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-delta function to measure channel separation between two adjacent channels.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

5.5. Test Result

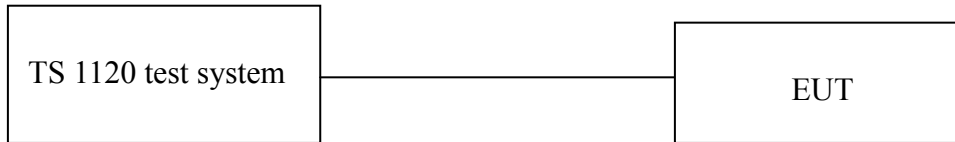
Refer to section 13: Appendix C

6. NUMBER OF HOPPING CHANNEL

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

6.2. Test Setup



6.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	300KHz
VBW	300KHz
Start frequency	2400MHz
Stop frequency	2483.5MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

6.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 6.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-peak function to mark the first and last frequency hopping channel.
- Repeat above procedures until all test modes were measured.
- Record the results in the test report.

6.5. Test Result

Refer to section 13: Appendix D

7. DWELL TIME

7.1. Limit

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.

7.2. Test Setup



7.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	1MHz
Span	Zero
Detector	Peak
Sweep Time	2.5ms(DH1)/10ms(DH3)/20ms(DH5)
Sweep Mode	Single Sweep

7.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 7.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-delta function to measure single pulse duration.
- Repeat above procedures until all test modes were measured.
- Record the results in the test report.

7.5. Test Result

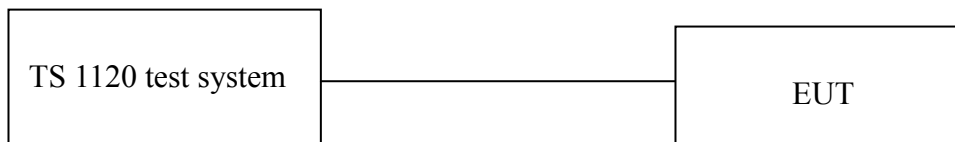
Refer to section 13: Appendix E

8. CONDUCTED BAND EDGE

8.1. Limit

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 §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

8.2. Test Setup



8.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	100MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

8.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 8.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels and test modes were measured(including frequency hopping off and frequency hopping on).
- Record the results in the test report.

8.5. Test Result

Refer to section 13: Appendix F & G

9. CONDUCTED SPURIOUS EMISSIONS

9.1. Limit

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 §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

9.2. Test Setup



9.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	26.5GHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

9.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 9.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

9.5. Test Result

Refer to section 13: Appendix F & H

10. RADIATED SPURIOUS EMISSIONS AND BAND EDGE

10.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

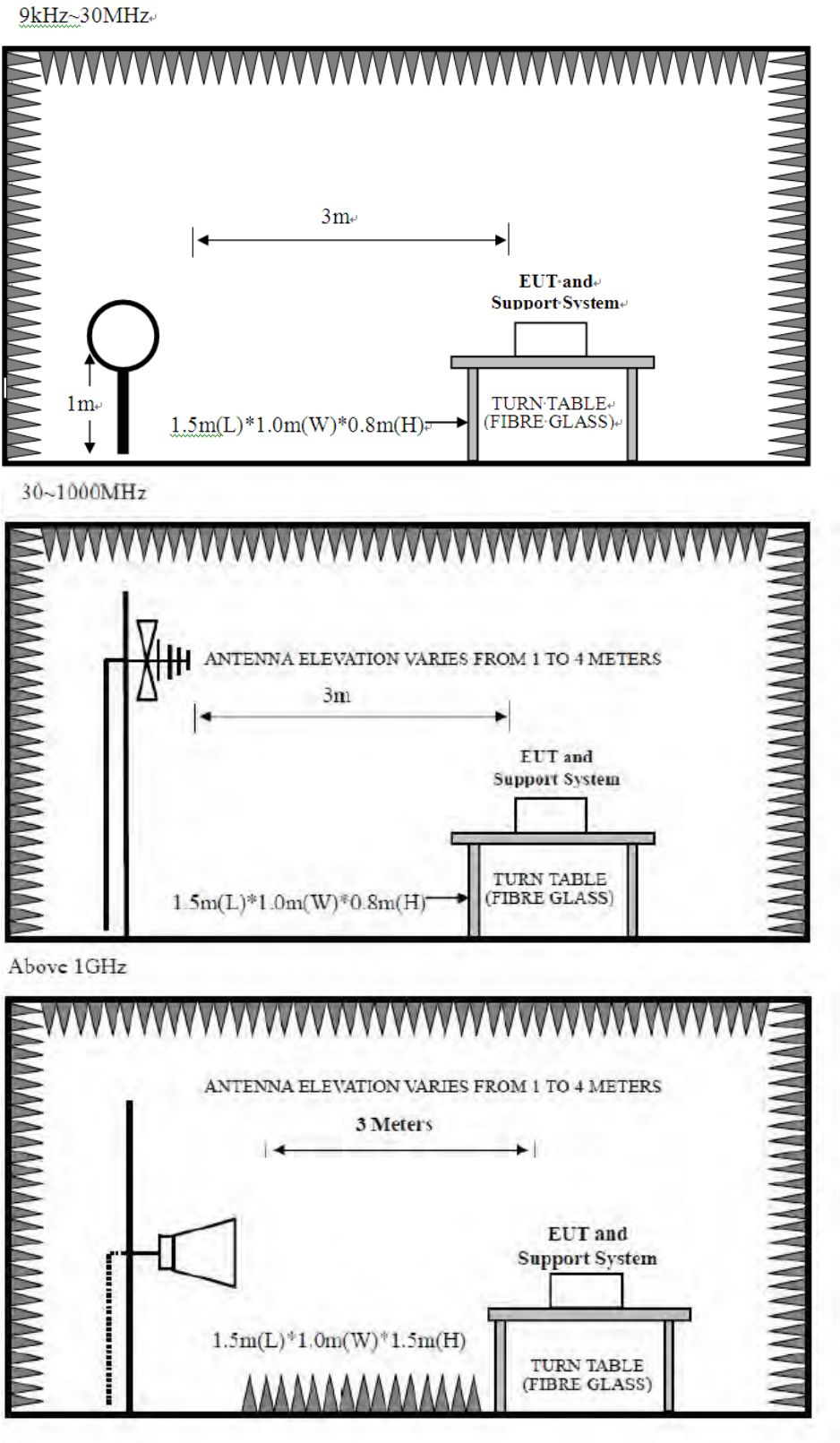
15.209 Limit

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

10.2. Test Setup



10.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geq 98\%$, VBW=10Hz
		Duty cycle $< 98\%$, VBW $\geq 1/T$
Start frequency	1GHz	
Stop frequency	25GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

10.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 10.3.
- g. Repeat above procedures until all channels and test modes were measured.
- h. Record the results in the test report.

Note:

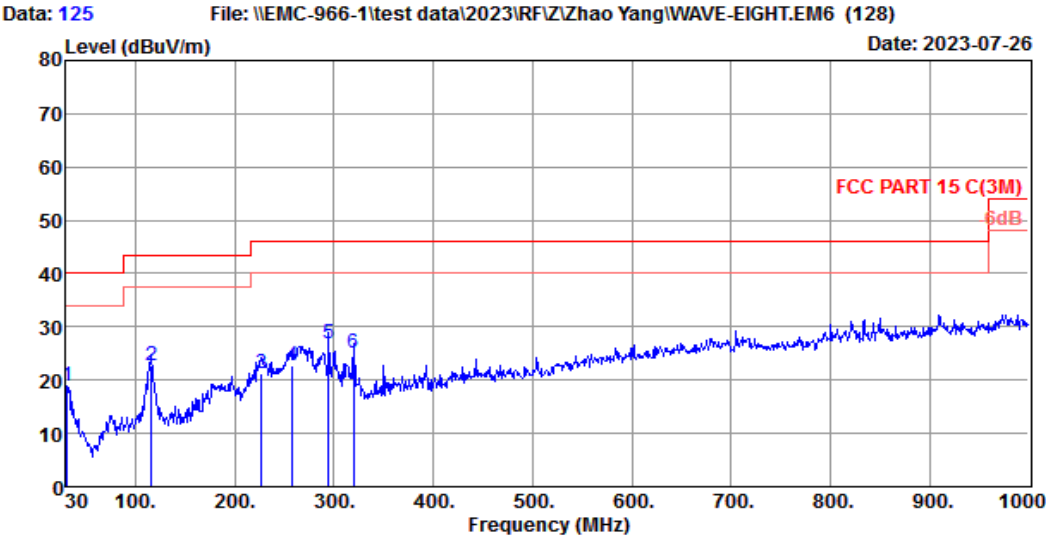
1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz ,2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

10.5. Test Result

Radiated Emissions Below 1GHz

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Site no. : 1# 966 Chamber Data no. : 125
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : JBR
EUT : Professional portable DJ speaker system
Power : AC 120V/60Hz
M/N : WAVE-EIGHT
Test Mode : TX Mode

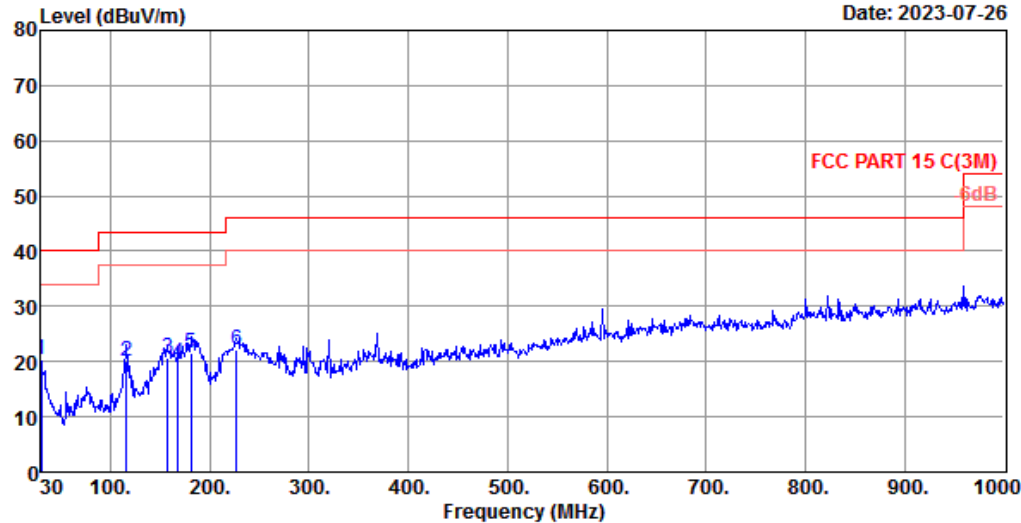
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.97	18.10	0.71	0.15	18.96	40.00	21.04	QP
2	116.33	11.90	1.52	9.28	22.70	43.50	20.80	QP
3	226.91	10.62	2.20	8.34	21.16	46.00	24.84	QP
4	257.95	14.04	2.37	6.28	22.69	46.00	23.31	QP
5	294.81	13.30	2.60	11.09	26.99	46.00	19.01	QP
6	320.03	13.60	2.71	8.67	24.98	46.00	21.02	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Data: 126 File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT.EM6 (128)
Date: 2023-07-26



Site no. : 1# 966 Chamber Data no. : 126
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:24.5℃;Humi:46.3%;Press:101.47kPa
Engineer : JBR
EUT : Professional portable DJ speaker system
Power : AC 120V/60Hz
M/N : WAVE-EIGHT
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	19.00	0.70	0.75	20.45	40.00	19.55	QP
2	116.33	11.90	1.52	6.55	19.97	43.50	23.53	QP
3	158.04	11.50	1.81	7.30	20.61	43.50	22.89	QP
4	167.74	10.50	1.86	7.32	19.68	43.50	23.82	QP
5	181.32	9.90	1.94	9.60	21.44	43.50	22.06	QP
6	226.91	10.62	2.20	9.43	22.25	46.00	23.75	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test,only the worst case was reported.

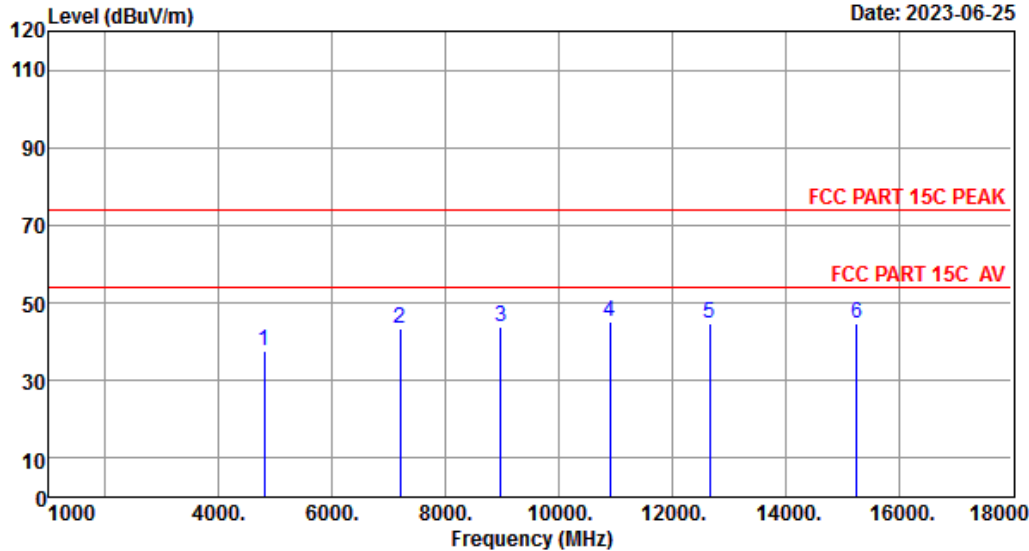


Radiated Emissions Above 1G

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Data: 41 File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80) Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 41
Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:19.5℃;Humi:50%;Press:101.55kPa
Engineer : JBR
EUT : Professional portable DJ speaker system
Power : AC 120V/60Hz
M/N : WAVE-EIGHT
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	4.90	45.44	45.60	37.45	74.00	36.55	Peak
2	7206.00	36.16	6.25	44.99	45.87	43.29	74.00	30.71	Peak
3	8973.00	37.97	7.07	44.69	43.60	43.95	74.00	30.05	Peak
4	10911.00	38.84	7.82	43.90	42.60	45.36	74.00	28.64	Peak
5	12662.00	39.40	8.58	42.73	39.60	44.85	74.00	29.15	Peak
6	15263.00	39.05	9.49	44.60	40.98	44.92	74.00	29.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

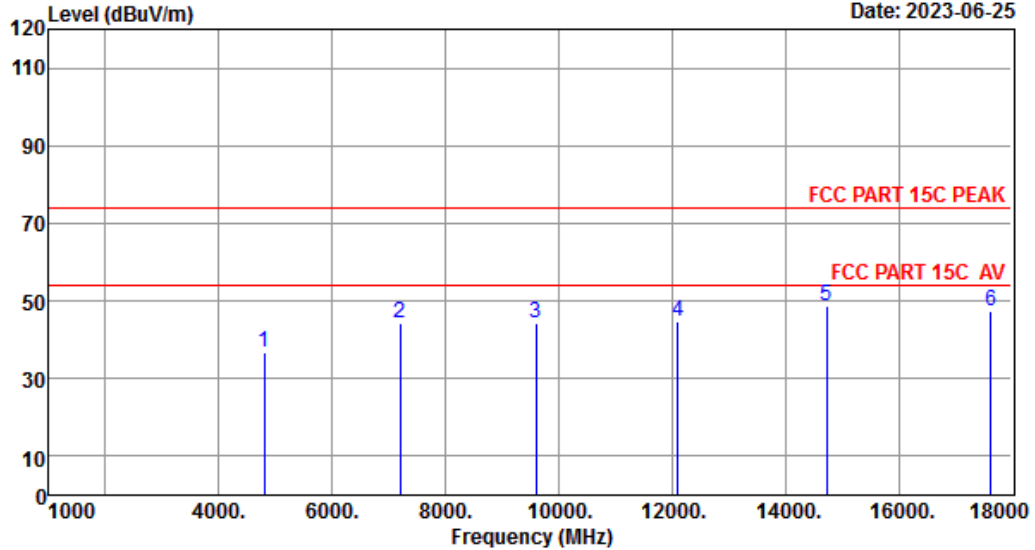
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Data: 42

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 42
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	4.90	45.44	44.92	36.77	74.00	37.23	Peak
2	7206.00	36.16	6.25	44.99	46.84	44.26	74.00	29.74	Peak
3	9602.00	38.12	7.43	44.58	43.42	44.39	74.00	29.61	Peak
4	12101.00	38.89	8.31	43.11	40.49	44.58	74.00	29.42	Peak
5	14736.00	39.63	9.35	43.65	43.33	48.66	74.00	25.34	Peak
6	17626.00	40.37	10.52	43.92	40.42	47.39	74.00	26.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

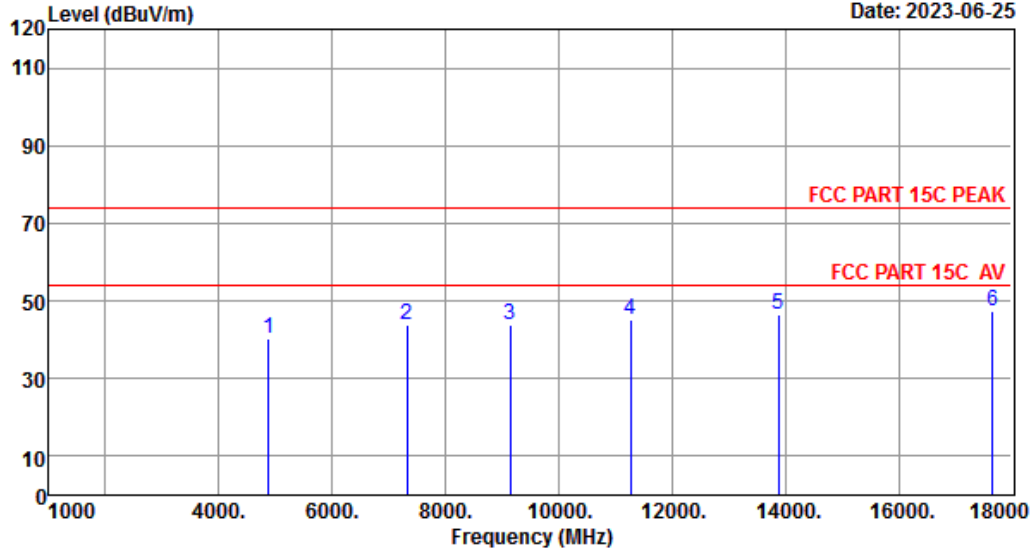
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Data: 45

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 45
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4882.00	32.55	4.94	45.41	48.41	40.49	74.00	33.51	Peak
2	7323.00	36.26	6.34	44.97	46.42	44.05	74.00	29.95	Peak
3	9143.00	38.03	7.16	44.66	43.47	44.00	74.00	30.00	Peak
4	11268.00	38.87	7.96	43.67	42.17	45.33	74.00	28.67	Peak
5	13886.00	39.97	8.99	41.92	39.31	46.35	74.00	27.65	Peak
6	17660.00	40.48	10.54	43.91	40.27	47.38	74.00	26.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

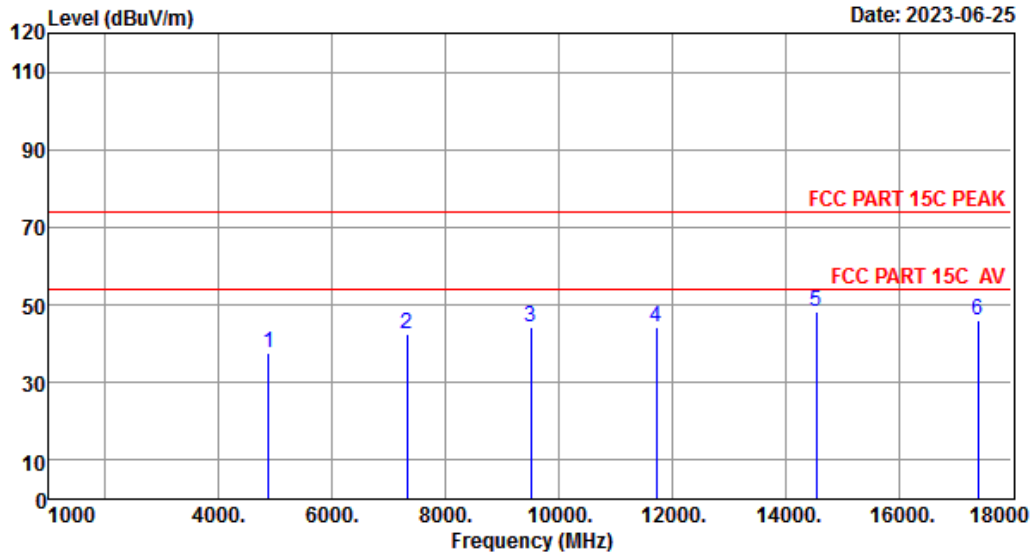
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Data: 46

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 46
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4882.00	32.55	4.94	45.41	45.62	37.70	74.00	36.30	Peak
2	7323.00	36.26	6.34	44.97	44.92	42.55	74.00	31.45	Peak
3	9500.00	38.10	7.37	44.60	43.58	44.45	74.00	29.55	Peak
4	11727.00	38.83	8.14	43.36	40.65	44.26	74.00	29.74	Peak
5	14549.00	39.73	9.29	43.22	42.60	48.40	74.00	25.60	Peak
6	17405.00	39.64	10.41	44.02	40.12	46.15	74.00	27.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

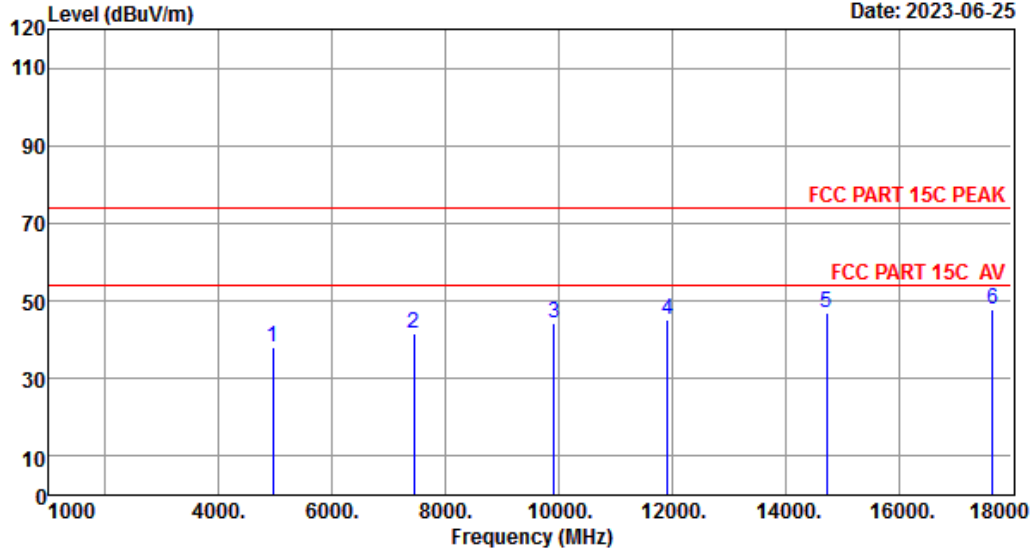
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Data: 47

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 47
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4960.00	32.72	4.98	45.38	45.96	38.28	74.00	35.72	Peak
2	7440.00	36.35	6.43	44.95	43.59	41.42	74.00	32.58	Peak
3	9925.00	38.19	7.62	44.52	42.93	44.22	74.00	29.78	Peak
4	11914.00	38.81	8.22	43.23	41.45	45.25	74.00	28.75	Peak
5	14736.00	39.63	9.35	43.65	41.78	47.11	74.00	26.89	Peak
6	17660.00	40.48	10.54	43.91	40.93	48.04	74.00	25.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

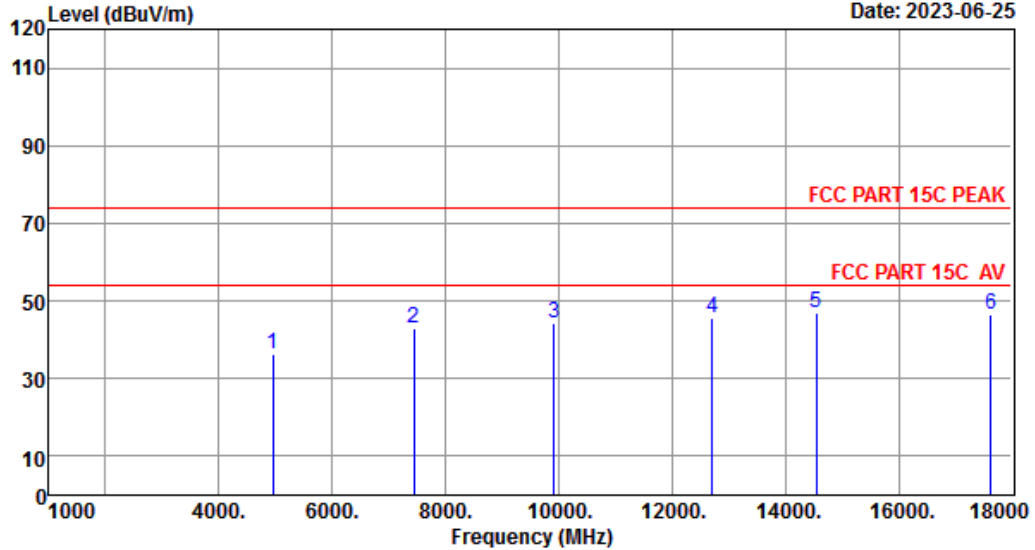
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Data: 48

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 48
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.72	4.98	45.38	43.98	36.30	74.00	37.70	Peak
2	7440.00	36.35	6.43	44.95	45.18	43.01	74.00	30.99	Peak
3	9925.00	38.19	7.62	44.52	42.82	44.11	74.00	29.89	Peak
4	12713.00	39.44	8.59	42.70	40.08	45.41	74.00	28.59	Peak
5	14549.00	39.73	9.29	43.22	41.10	46.90	74.00	27.10	Peak
6	17626.00	40.37	10.52	43.92	39.60	46.57	74.00	27.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

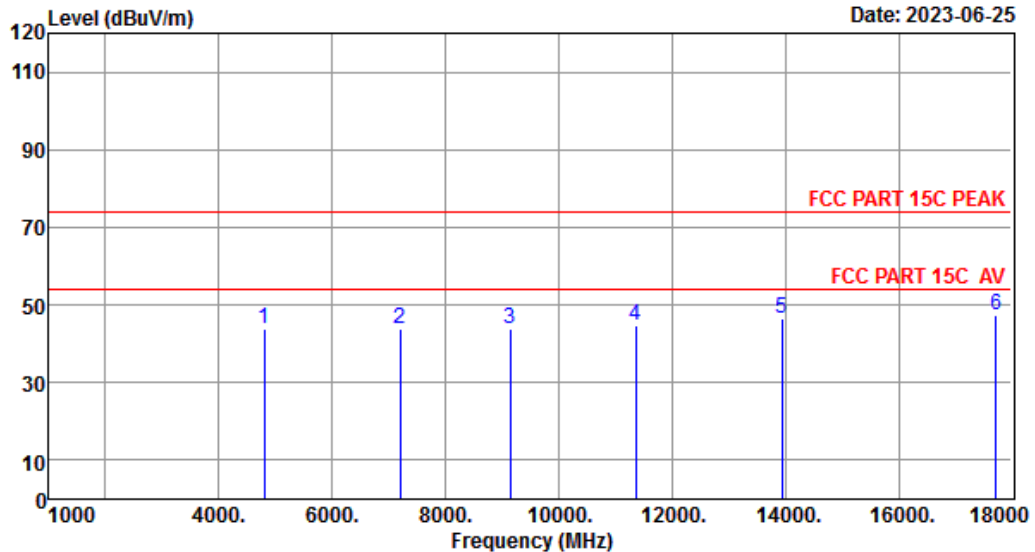
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Data: 51

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 51
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	4.90	45.44	52.01	43.86	74.00	30.14	Peak
2	7206.00	36.16	6.25	44.99	46.47	43.89	74.00	30.11	Peak
3	9143.00	38.03	7.16	44.66	43.35	43.88	74.00	30.12	Peak
4	11353.00	38.86	7.99	43.61	41.47	44.71	74.00	29.29	Peak
5	13937.00	39.98	9.05	41.88	39.15	46.30	74.00	27.70	Peak
6	17728.00	40.70	10.57	43.87	39.87	47.27	74.00	26.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

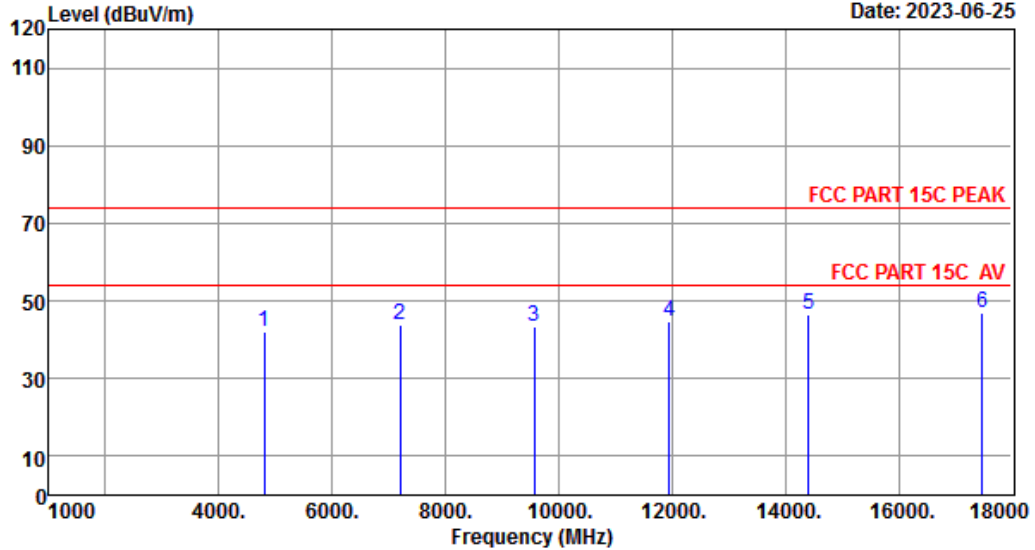
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Data: 52

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 52
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.39	4.90	45.44	50.34	42.19	74.00	31.81	Peak
2	7206.00	36.16	6.25	44.99	46.47	43.89	74.00	30.11	Peak
3	9568.00	38.11	7.41	44.59	42.65	43.58	74.00	30.42	Peak
4	11948.00	38.81	8.23	43.21	40.95	44.78	74.00	29.22	Peak
5	14413.00	39.79	9.25	42.91	40.38	46.51	74.00	27.49	Peak
6	17473.00	39.86	10.44	43.99	40.59	46.90	74.00	27.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

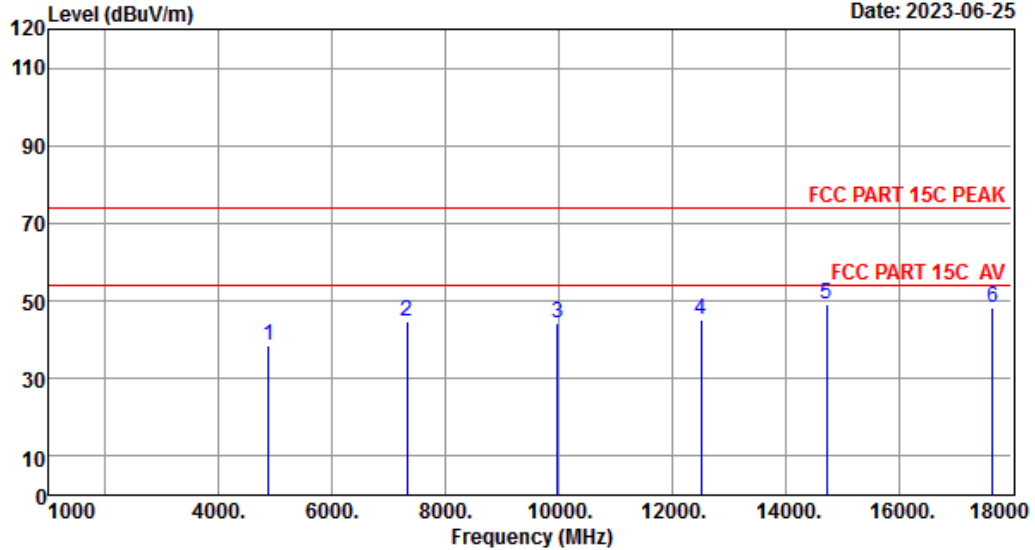
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Data: 55

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 55
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4882.00	32.55	4.94	45.41	46.47	38.55	74.00	35.45	Peak
2	7323.00	36.26	6.34	44.97	47.30	44.93	74.00	29.07	Peak
3	9976.00	38.20	7.65	44.52	42.99	44.32	74.00	29.68	Peak
4	12509.00	39.26	8.54	42.84	40.43	45.39	74.00	28.61	Peak
5	14736.00	39.63	9.35	43.65	43.76	49.09	74.00	24.91	Peak
6	17660.00	40.48	10.54	43.91	41.27	48.38	74.00	25.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

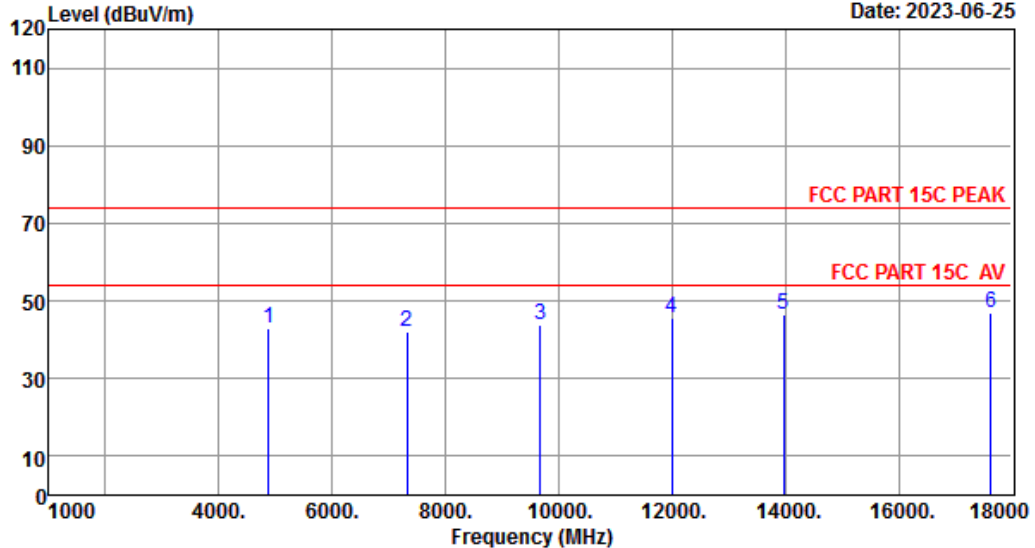
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Data: 56

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 56
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4882.00	32.55	4.94	45.41	51.04	43.12	74.00	30.88	Peak
2	7323.00	36.26	6.34	44.97	44.48	42.11	74.00	31.89	Peak
3	9670.00	38.13	7.47	44.57	42.80	43.83	74.00	30.17	Peak
4	11999.00	38.80	8.25	43.18	41.76	45.63	74.00	28.37	Peak
5	13971.00	39.99	9.09	41.89	39.08	46.27	74.00	27.73	Peak
6	17626.00	40.37	10.52	43.92	39.94	46.91	74.00	27.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

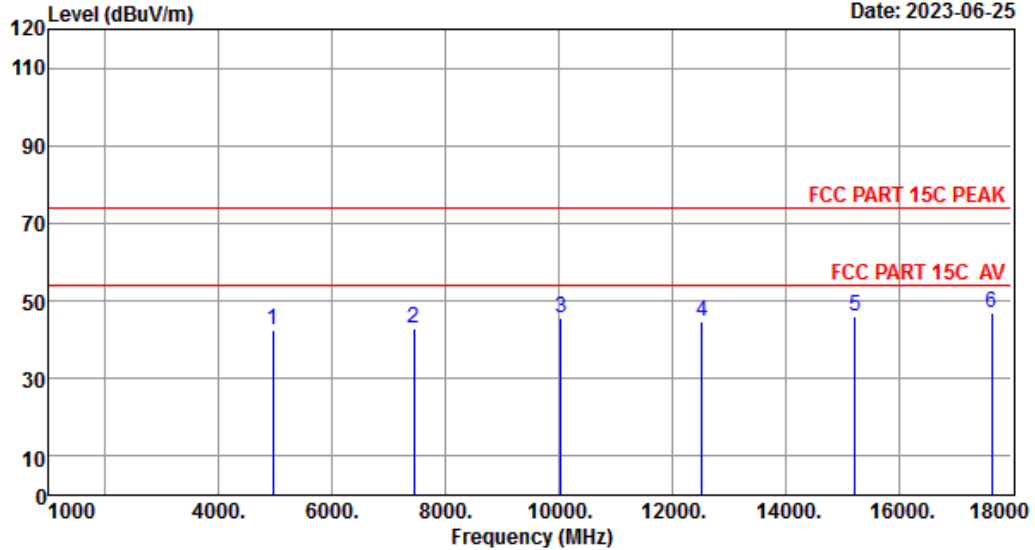
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Data: 57

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



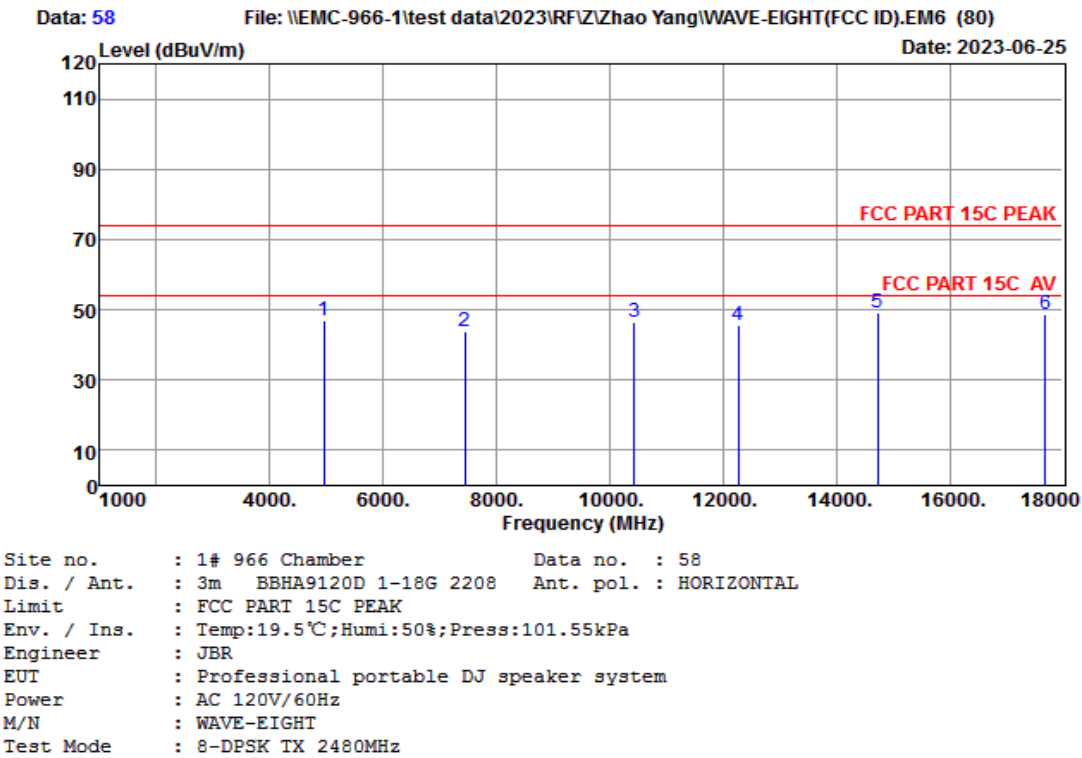
Site no. : 1# 966 Chamber Data no. : 57
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.72	4.98	45.38	50.06	42.38	74.00	31.62	Peak
2	7440.00	36.35	6.43	44.95	45.08	42.91	74.00	31.09	Peak
3	10044.00	38.23	7.66	44.48	44.05	45.46	74.00	28.54	Peak
4	12526.00	39.27	8.55	42.82	39.79	44.79	74.00	29.21	Peak
5	15229.00	39.11	9.48	44.55	41.82	45.86	74.00	28.14	Peak
6	17643.00	40.42	10.53	43.91	40.05	47.09	74.00	26.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.72	4.98	45.38	54.46	46.78	74.00	27.22	Peak
2	7440.00	36.35	6.43	44.95	46.16	43.99	74.00	30.01	Peak
3	10435.00	38.50	7.63	44.22	44.69	46.60	74.00	27.40	Peak
4	12271.00	39.04	8.41	43.00	41.12	45.57	74.00	28.43	Peak
5	14736.00	39.63	9.35	43.65	43.83	49.16	74.00	24.84	Peak
6	17694.00	40.59	10.55	43.89	41.27	48.52	74.00	25.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

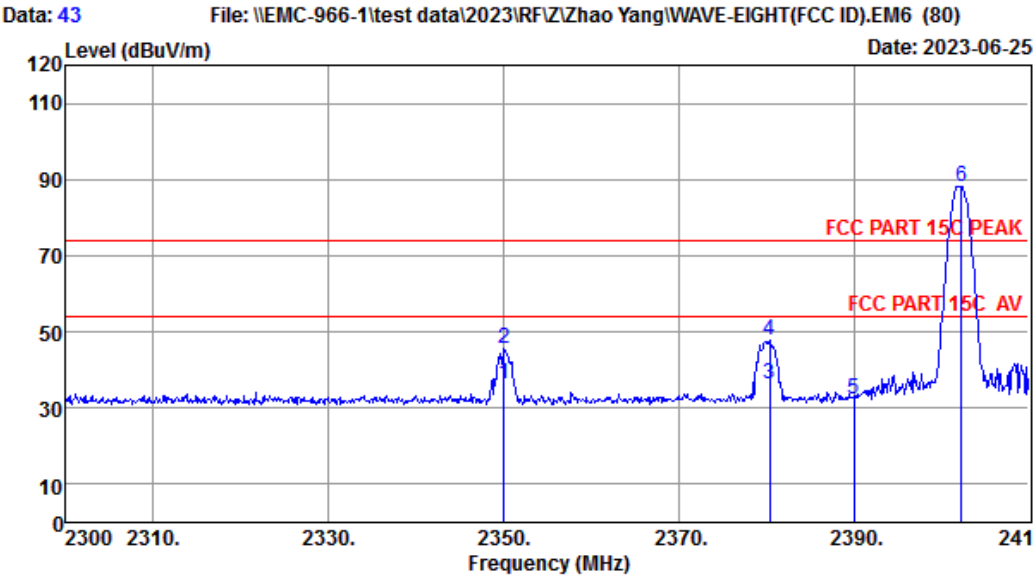
- Note:
- 1. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
 - 2. All test mode had been pre-test,only Low/Middle/High Channel of the worst case modulation mode was reported.



Radiated Band Edge

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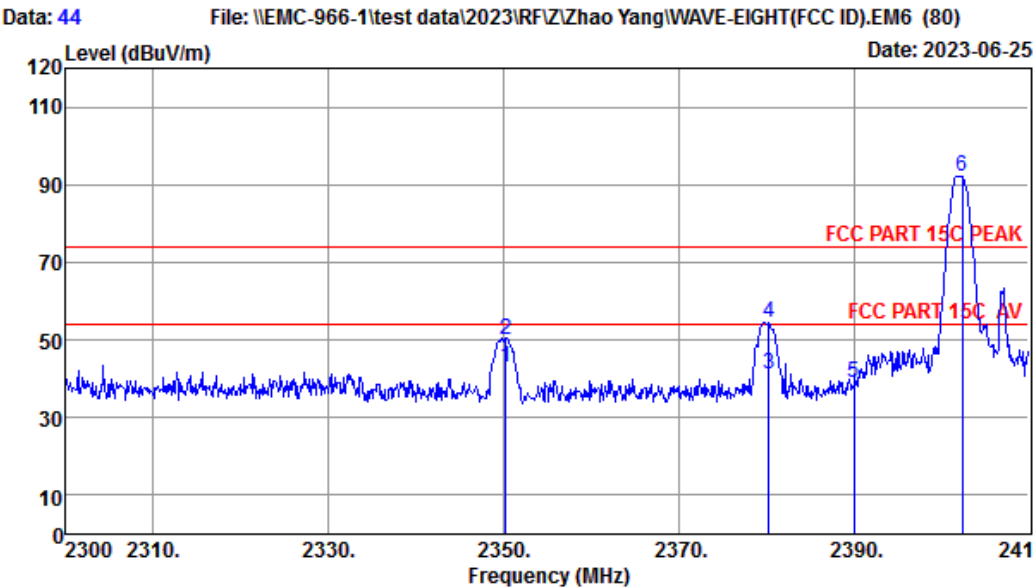
Site no. : 1# 966 Chamber Data no. : 43
Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:19.5℃;Humi:50%;Press:101.55kPa
Engineer : JBR
EUT : Professional portable DJ speaker system
Power : AC 120V/60Hz
M/N : WAVE-EIGHT
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2350.05	27.32	3.45	46.50	51.97	36.24	54.00	17.76	Average
2	2350.05	27.32	3.45	46.50	61.27	45.54	74.00	28.46	Peak
3	2380.41	27.40	3.47	46.49	51.98	36.36	54.00	17.64	Average
4	2380.41	27.40	3.47	46.49	63.44	47.82	74.00	26.18	Peak
5	2390.00	27.43	3.47	46.48	47.85	32.27	74.00	41.73	Peak
6	2402.30	27.47	3.48	46.48	103.67	88.14	74.00	-14.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 44
Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : JBR
EUT : Professional portable DJ speaker system
Power : AC 120V/60Hz
M/N : WAVE-EIGHT
Test Mode : GFSK TX 2402MHz

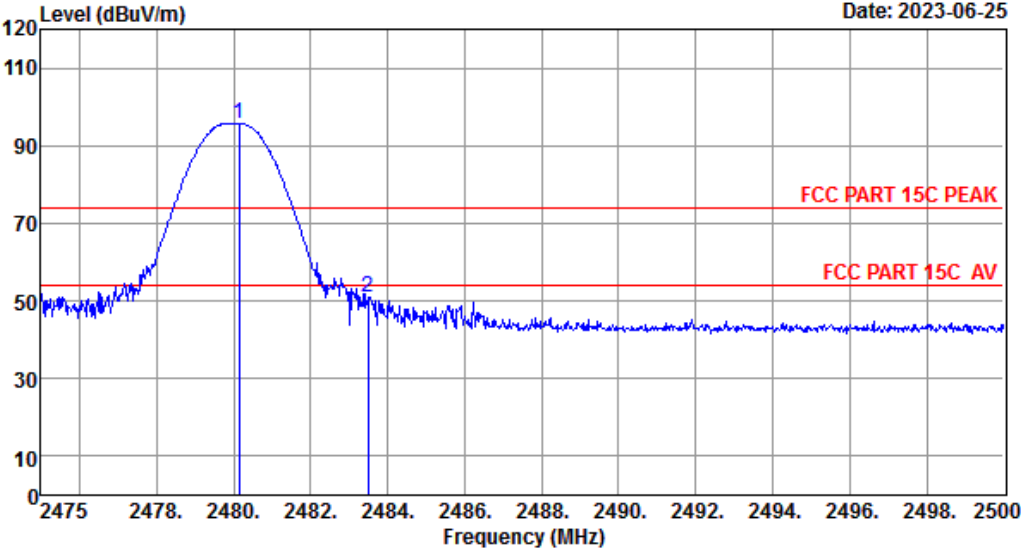
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2350.27	27.32	3.45	46.50	58.77	43.04	54.00	10.96	Average
2	2350.27	27.32	3.45	46.50	65.77	50.04	74.00	23.96	Peak
3	2380.30	27.40	3.47	46.49	56.91	41.29	54.00	12.71	Average
4	2380.30	27.40	3.47	46.49	70.05	54.43	74.00	19.57	Peak
5	2390.00	27.43	3.47	46.48	54.45	38.87	74.00	35.13	Peak
6	2402.41	27.47	3.48	46.48	107.53	92.00	74.00	-18.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
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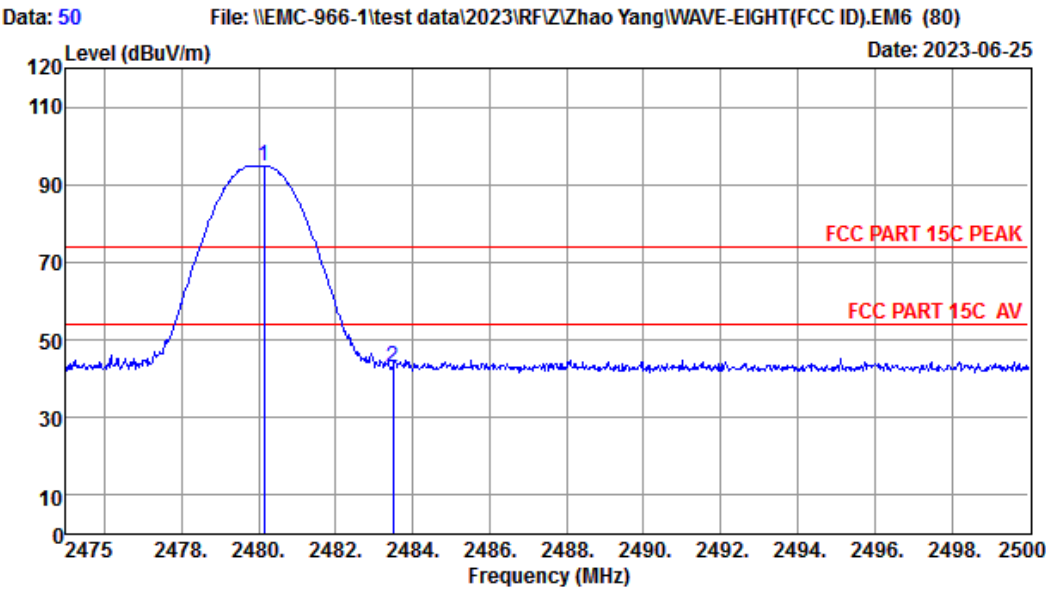
Data: 49 File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)
Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 49
Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:19.5℃;Humi:50%;Press:101.55kPa
Engineer : JBR
EUT : Professional portable DJ speaker system
Power : AC 120V/60Hz
M/N : WAVE-EIGHT
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2480.15	27.69	3.51	46.45	110.97	95.72	74.00	-21.72	Peak
2	2483.50	27.70	3.51	46.44	66.26	51.03	74.00	22.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 1# 966 Chamber Data no. : 50
Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : JBR
EUT : Professional portable DJ speaker system
Power : AC 120V/60Hz
M/N : WAVE-EIGHT
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.15	27.69	3.51	46.45	110.11	94.86	74.00	-20.86	Peak
2	2483.50	27.70	3.51	46.44	58.12	42.89	74.00	31.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

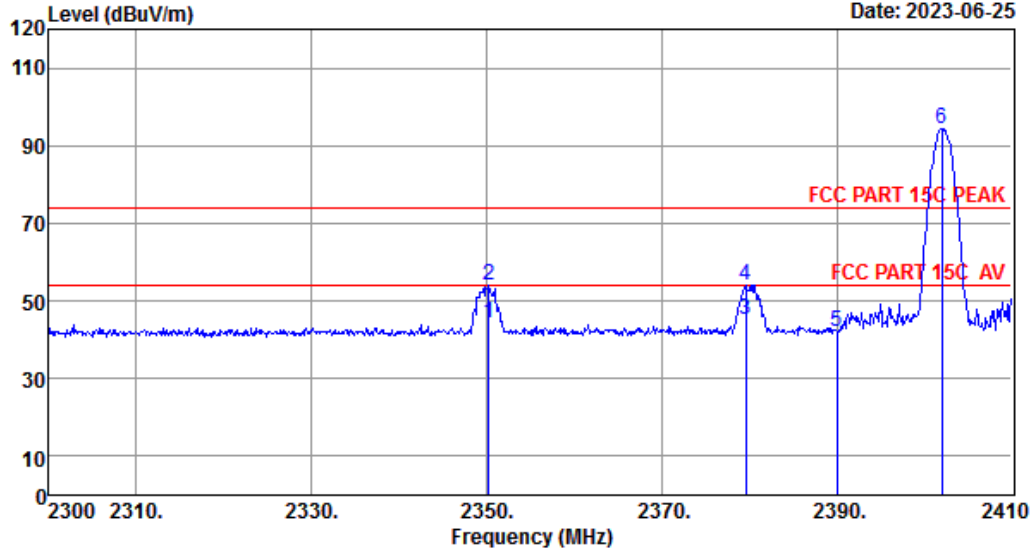
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Data: 53

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 53
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2350.27	27.32	3.45	46.50	59.97	44.24	54.00	9.76	Average
2	2350.27	27.32	3.45	46.50	69.56	53.83	74.00	20.17	Peak
3	2379.64	27.40	3.47	46.49	60.97	45.35	54.00	8.65	Average
4	2379.64	27.40	3.47	46.49	69.84	54.22	74.00	19.78	Peak
5	2390.00	27.43	3.47	46.48	57.67	42.09	74.00	31.91	Peak
6	2401.97	27.47	3.48	46.48	109.93	94.40	74.00	-20.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

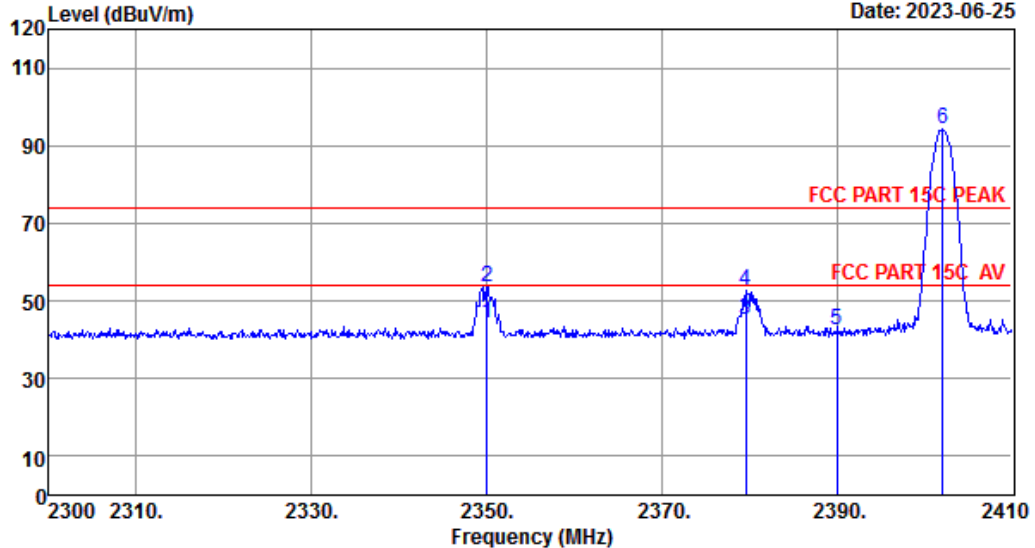
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Data: 54

File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)

Date: 2023-06-25

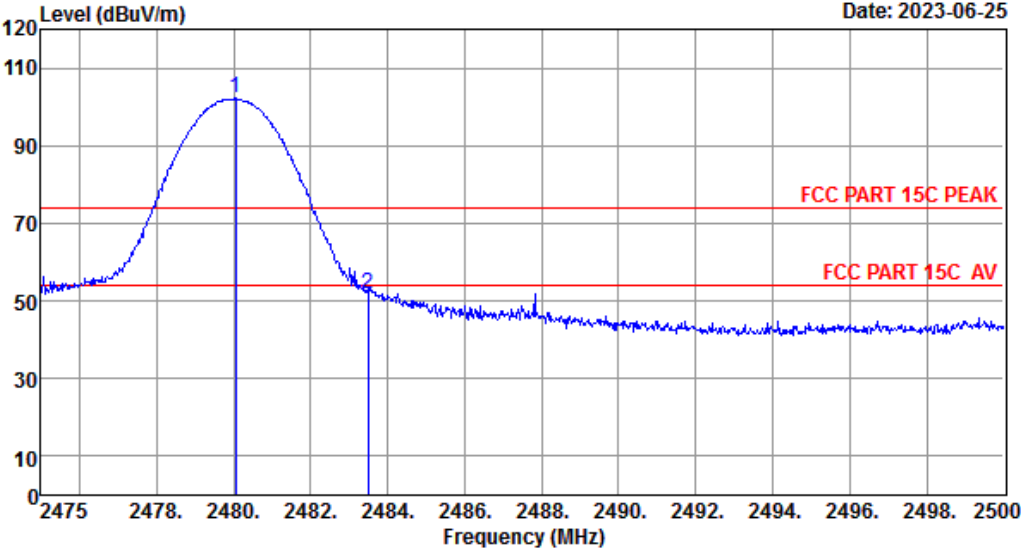


Site no. : 1# 966 Chamber Data no. : 54
 Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : JBR
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2350.05	27.32	3.45	46.50	60.17	44.44	54.00	9.56	Average
2	2350.05	27.32	3.45	46.50	69.48	53.75	74.00	20.25	Peak
3	2379.64	27.40	3.47	46.49	60.81	45.19	54.00	8.81	Average
4	2379.64	27.40	3.47	46.49	68.33	52.71	74.00	21.29	Peak
5	2390.00	27.43	3.47	46.48	58.00	42.42	74.00	31.58	Peak
6	2402.08	27.47	3.48	46.48	109.63	94.10	74.00	-20.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

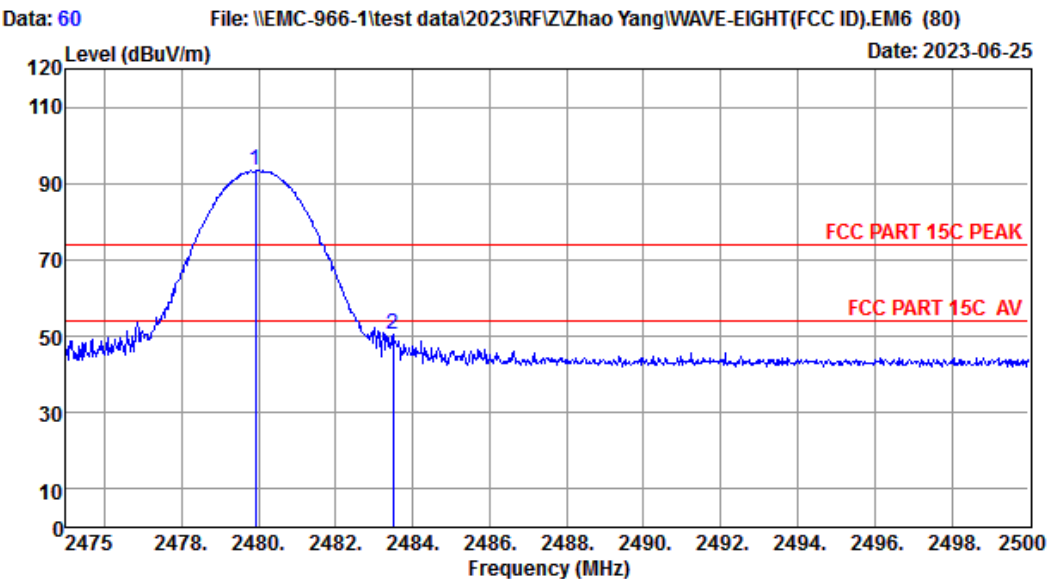
Data: 59 File: \\EMC-966-1\\test data\\2023\\RF\\Z\\Zhao Yang\\WAVE-EIGHT(FCC ID).EM6 (80)
Date: 2023-06-25



Site no. : 1# 966 Chamber Data no. : 59
Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : JBR
EUT : Professional portable DJ speaker system
Power : AC 120V/60Hz
M/N : WAVE-EIGHT
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.05	27.69	3.51	46.45	117.37	102.12	74.00	-28.12	Peak
2	2483.50	27.70	3.51	46.44	67.03	51.80	74.00	22.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 1# 966 Chamber Data no. : 60
Dis. / Ant. : 3m BBHA9120D 1-18G 2208 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:19.5℃;Humi:50%;Press:101.55kPa
Engineer : JBR
EUT : Professional portable DJ speaker system
Power : AC 120V/60Hz
M/N : WAVE-EIGHT
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.93	27.69	3.51	46.45	108.75	93.50	74.00	-19.50	Peak
2	2483.50	27.70	3.51	46.44	65.56	50.33	74.00	23.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note: All test mode had been pre-test,only Low/High Channel of the worst case modulation mode was reported.

11. AC POWER LINE CONDUCTED EMISSIONS

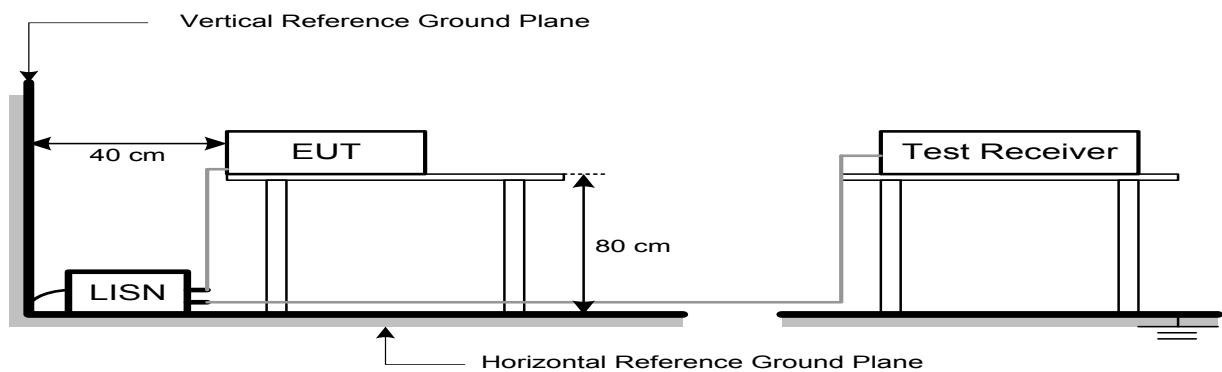
11.1. Limit

Frequency			Maximum RF Line Voltage	
			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz	~	500kHz	66 ~ 56*	56 ~ 46*
500kHz	~	5MHz	56	46
5MHz	~	30MHz	60	50

Note:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

11.2. Test Setup



11.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

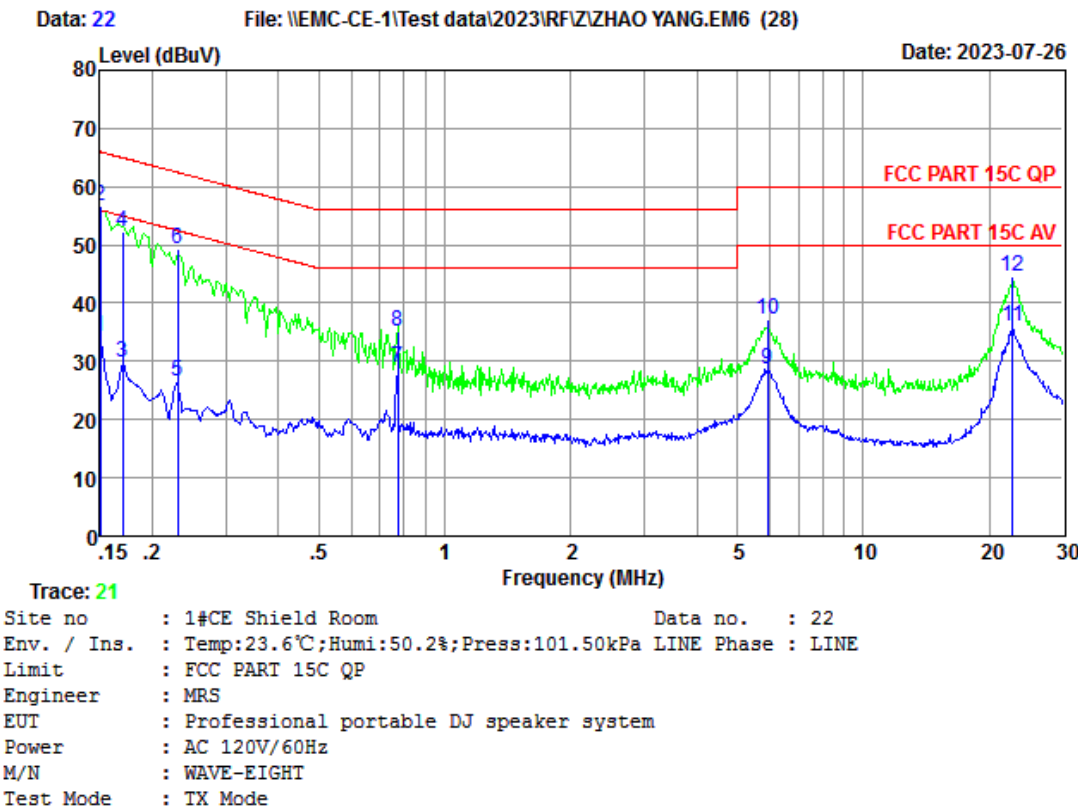
11.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 11.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

11.5. Test Result

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	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	10.40	9.90	14.01	34.31	56.00	21.69	Average
2	0.150	10.40	9.90	36.52	56.82	66.00	9.18	QP
3	0.170	10.40	9.90	9.41	29.71	54.94	25.23	Average
4	0.170	10.40	9.90	32.08	52.38	64.94	12.56	QP
5	0.230	10.29	9.90	6.49	26.68	52.44	25.76	Average
6	0.230	10.29	9.90	28.97	49.16	62.44	13.28	QP
7	0.771	10.36	9.94	8.65	28.95	46.00	17.05	Average
8	0.771	10.36	9.94	14.85	35.15	56.00	20.85	QP
9	5.898	10.42	9.88	8.24	28.54	50.00	21.46	Average
10	5.898	10.42	9.88	17.02	37.32	60.00	22.68	QP
11	22.775	10.59	10.09	15.36	36.04	50.00	13.96	Average
12	22.775	10.59	10.09	23.96	44.64	60.00	15.36	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

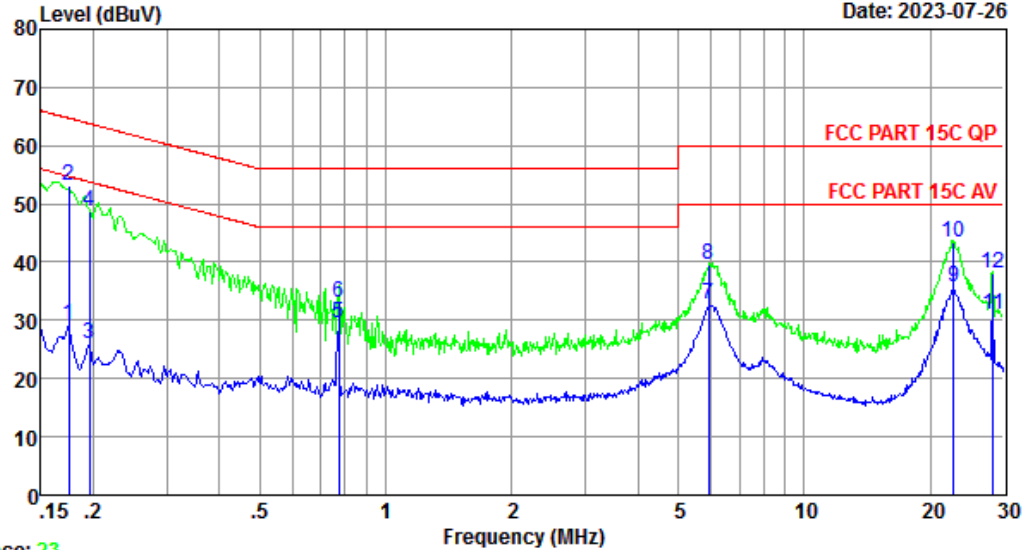
EST Technology

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Data: 24

File: \\EMC-CE-1\Test data\2023\RF\Z\ZHAO YANG.EM6 (28)

Date: 2023-07-26



Trace: 23

Site no : 1#CE Shield Room Data no. : 24
 Env. / Ins. : Temp:23.6°C;Humi:50.2%;Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15C QP
 Engineer : MRS
 EUT : Professional portable DJ speaker system
 Power : AC 120V/60Hz
 M/N : WAVE-EIGHT
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.175	10.32	9.90	9.08	29.30	54.72	25.42	Average
2	0.175	10.32	9.90	32.85	53.07	64.72	11.65	QP
3	0.195	10.32	9.90	5.67	25.89	53.80	27.91	Average
4	0.195	10.32	9.90	28.63	48.85	63.80	14.95	QP
5	0.771	10.17	9.94	9.33	29.44	46.00	16.56	Average
6	0.771	10.17	9.94	12.84	32.95	56.00	23.05	QP
7	5.898	10.01	9.88	12.84	32.73	50.00	17.27	Average
8	5.898	10.01	9.88	19.52	39.41	60.00	20.59	QP
9	22.775	10.28	10.09	15.25	35.62	50.00	14.38	Average
10	22.775	10.28	10.09	23.06	43.43	60.00	16.57	QP
11	28.302	10.39	10.11	10.38	30.88	50.00	19.12	Average
12	28.302	10.39	10.11	17.62	38.12	60.00	21.88	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

12. ANTENNA REQUIREMENTS

12.1. Limit

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

12.2. Test Result

The antennas used for this product is Integral antenna, so compliance with antenna requirements.
(Please refer to the EUT photo for details)

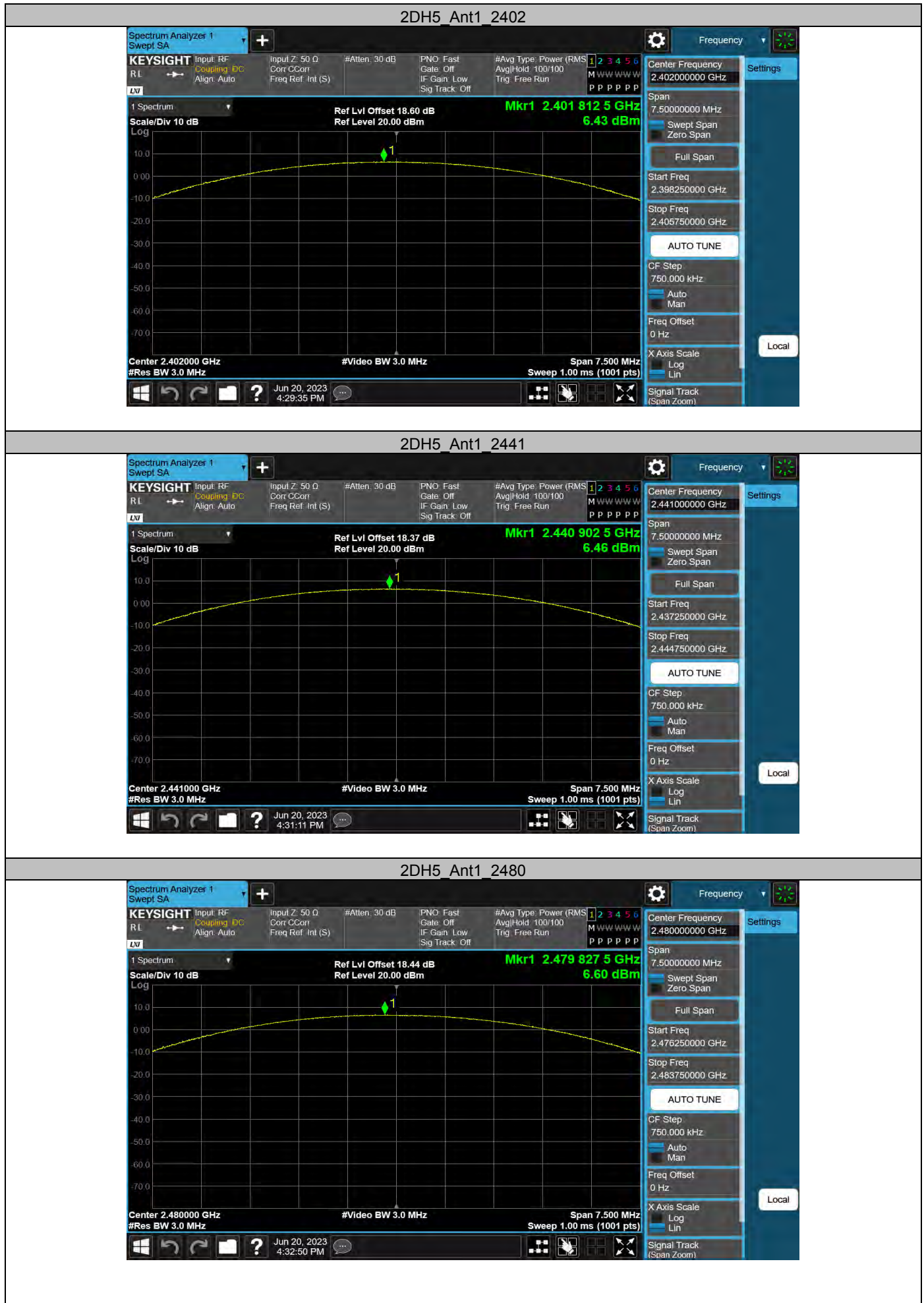
13. APPENDIX

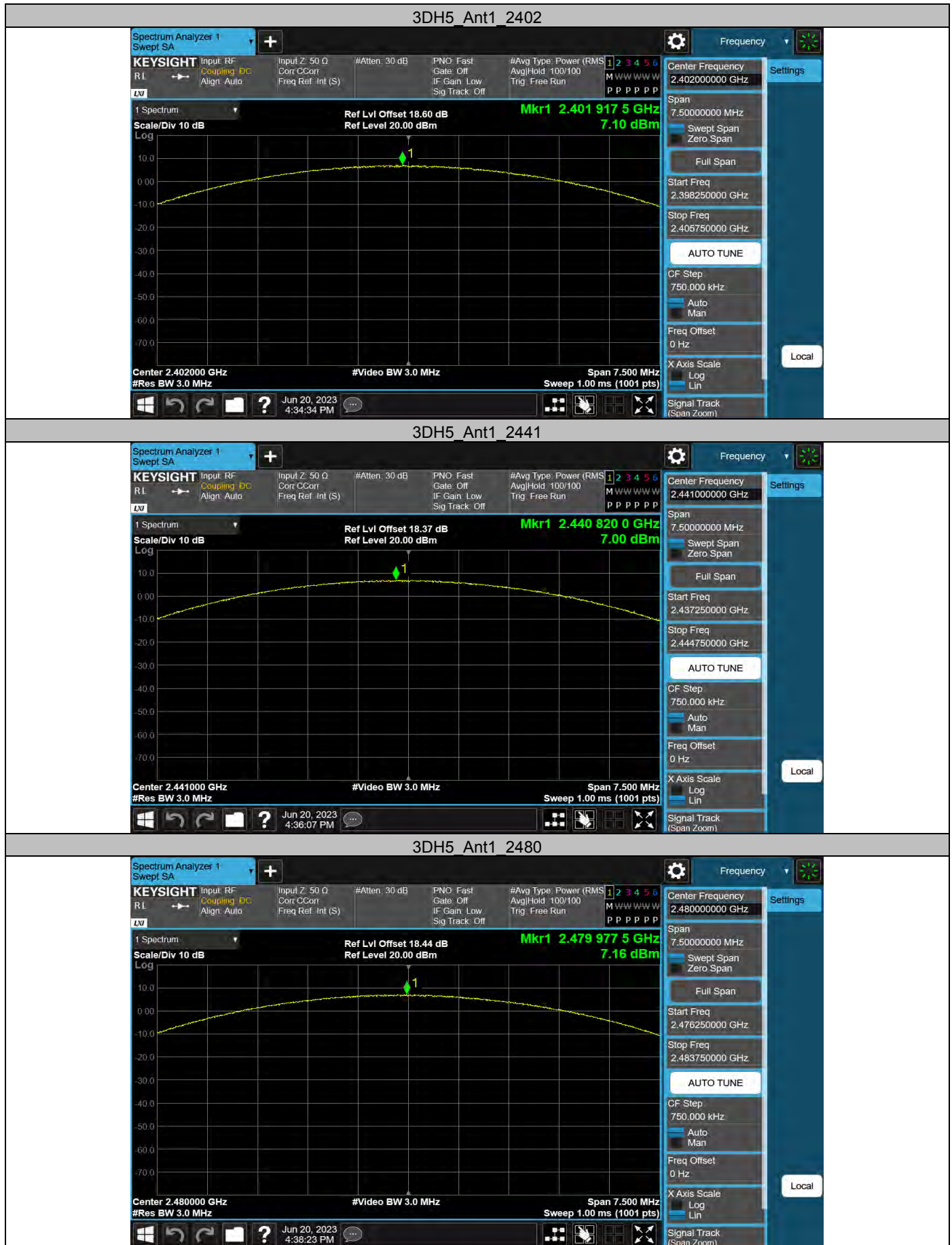
Appendix A: Maximum conducted output power Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	4.32	≤ 20.97	PASS
		2441	4.52	≤ 20.97	PASS
		2480	4.68	≤ 20.97	PASS
2DH5	Ant1	2402	6.43	≤ 20.97	PASS
		2441	6.46	≤ 20.97	PASS
		2480	6.60	≤ 20.97	PASS
3DH5	Ant1	2402	7.10	≤ 20.97	PASS
		2441	7.00	≤ 20.97	PASS
		2480	7.16	≤ 20.97	PASS

Test Graphs



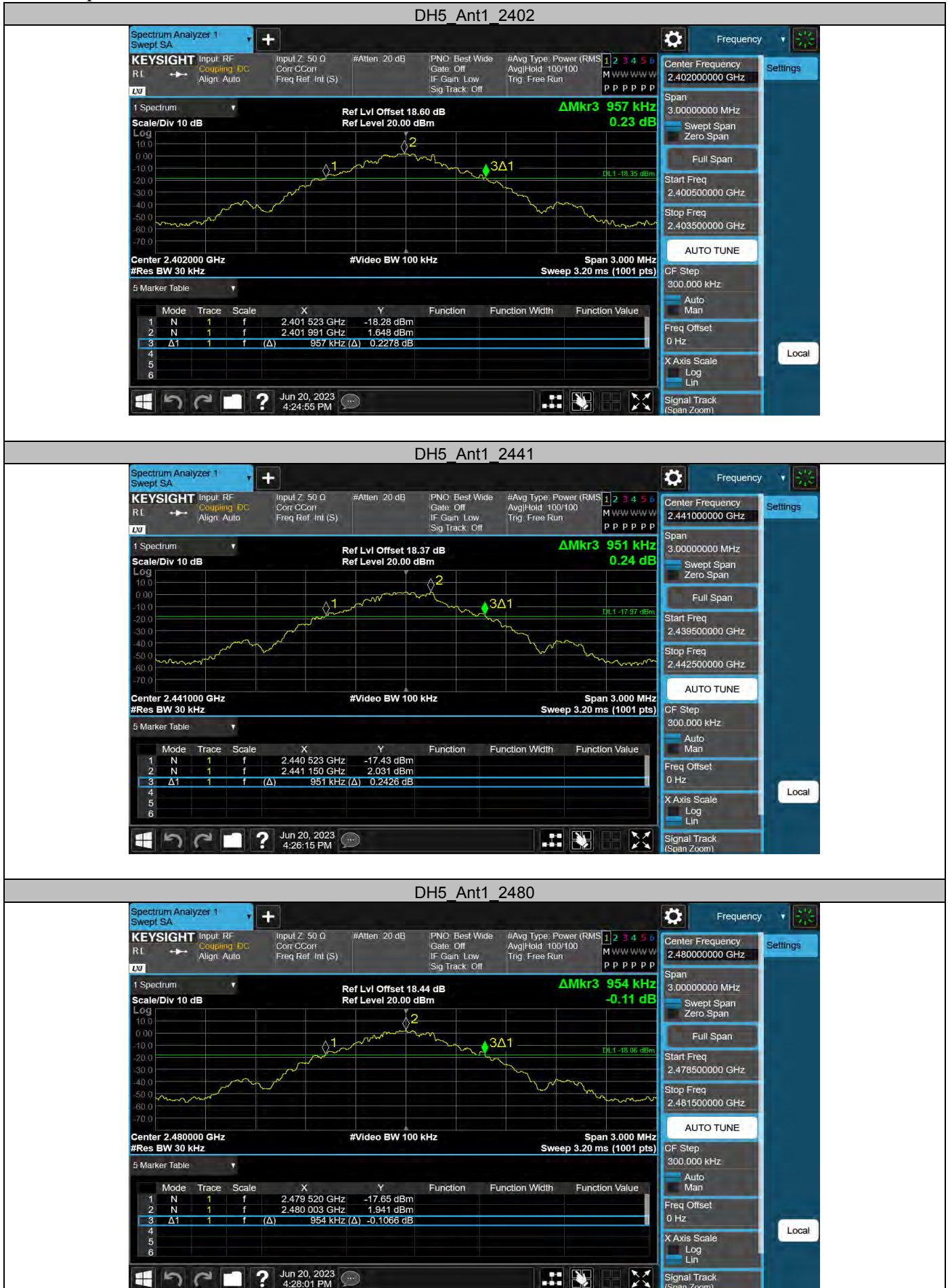


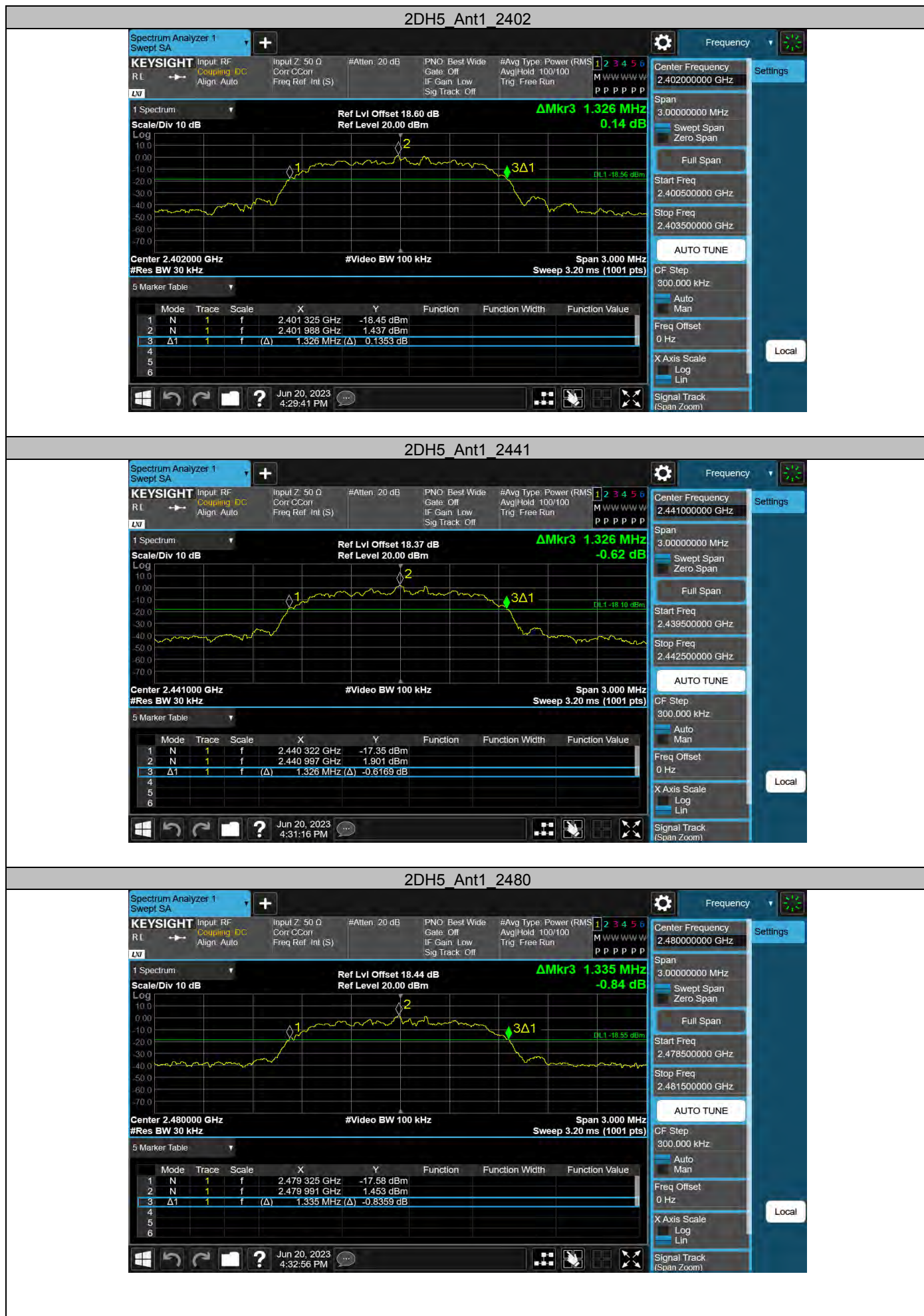


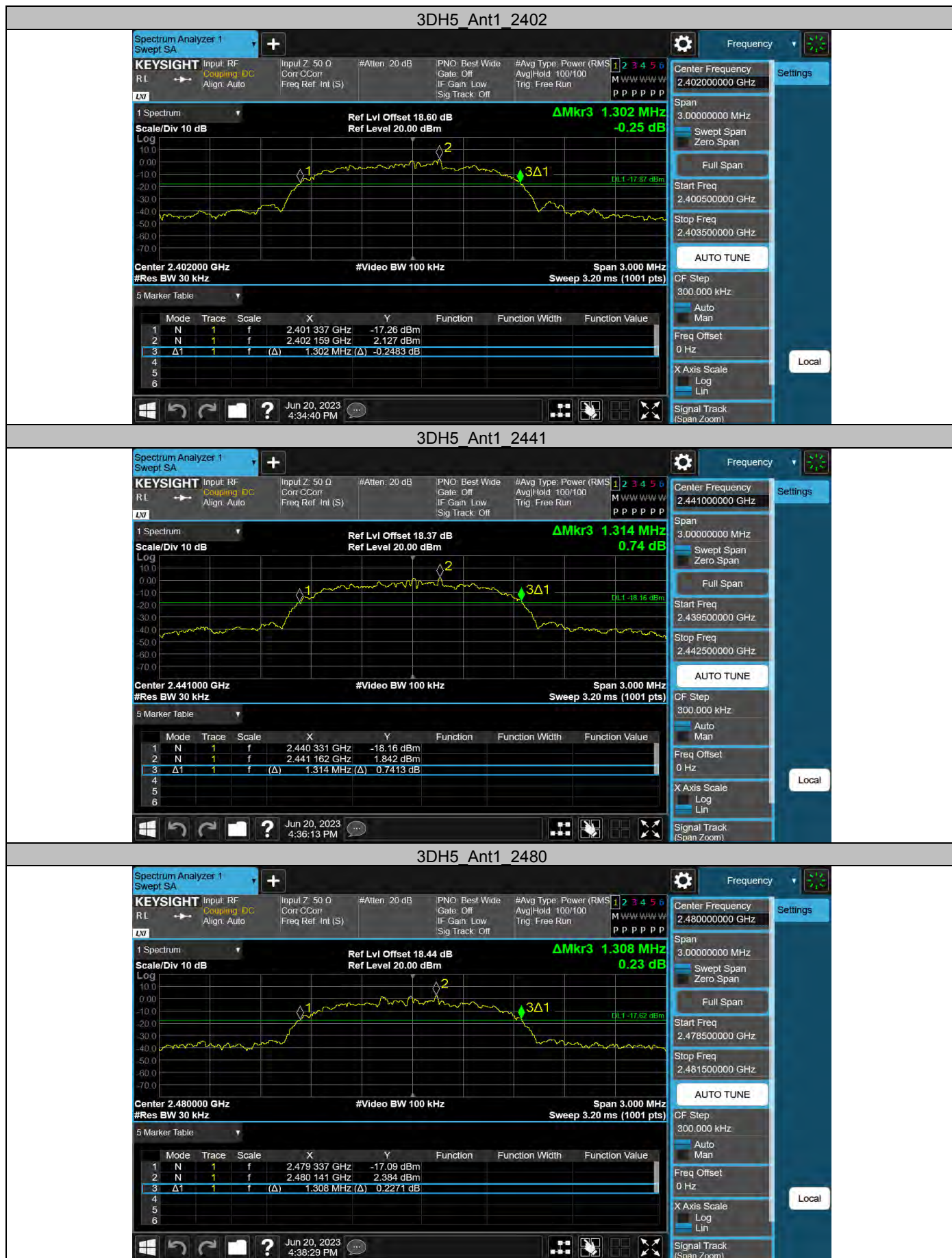
Appendix B: 20dB Emission Bandwidth Test Result

Test Mode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.523	2402.480	---	---
		2441	0.951	2440.523	2441.474	---	---
		2480	0.954	2479.520	2480.474	---	---
2DH5	Ant1	2402	1.326	2401.325	2402.651	---	---
		2441	1.326	2440.322	2441.648	---	---
		2480	1.335	2479.325	2480.660	---	---
3DH5	Ant1	2402	1.302	2401.337	2402.639	---	---
		2441	1.314	2440.331	2441.645	---	---
		2480	1.308	2479.337	2480.645	---	---

Test Graphs



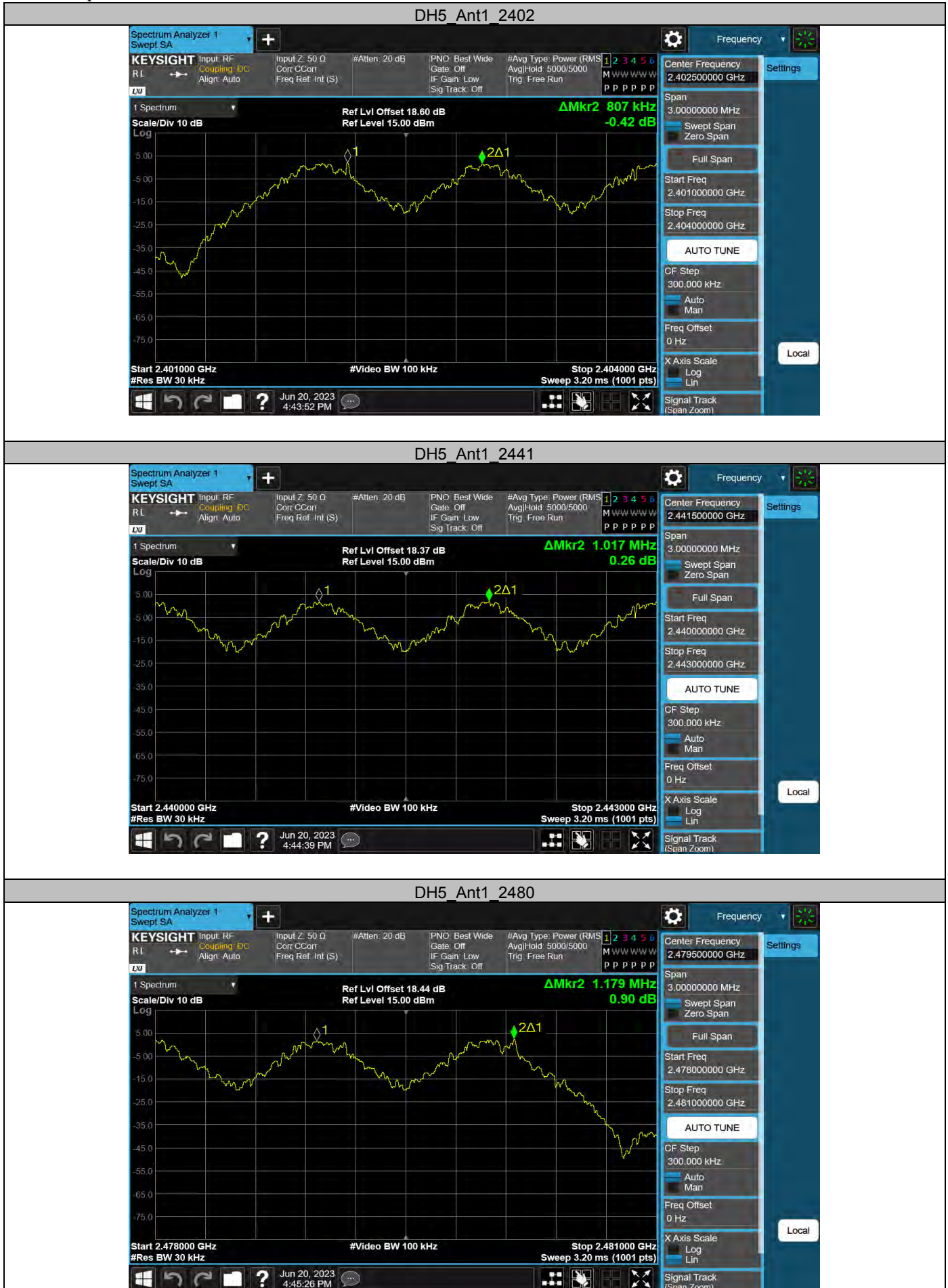


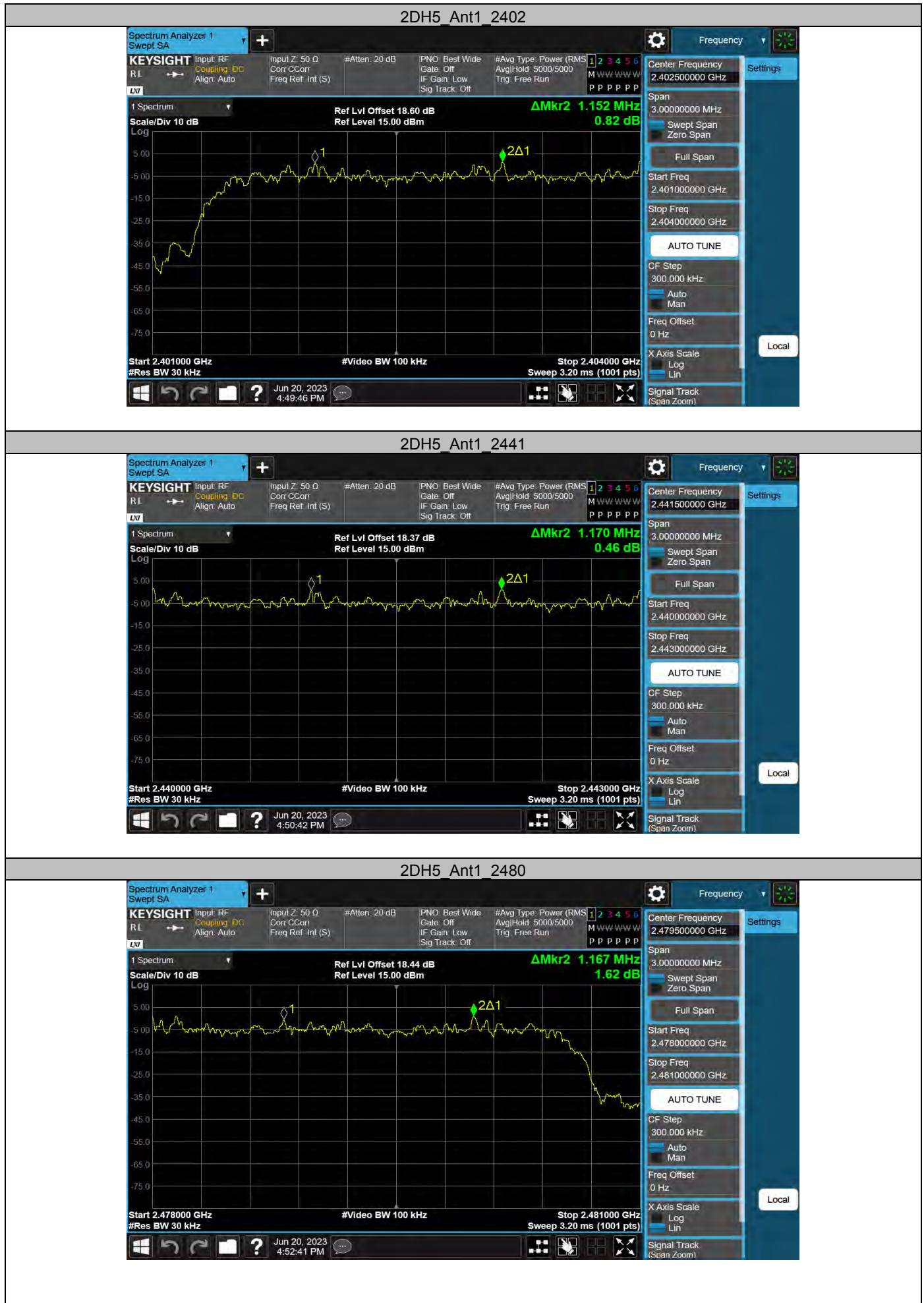


Appendix C: Carrier frequency separation Test Result

Test Mode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.807	≥ 0.638	PASS
		2441	1.017	≥ 0.957	PASS
		2480	1.179	≥ 0.957	PASS
2DH5	Ant1	2402	1.152	≥ 0.890	PASS
		2441	1.17	≥ 0.890	PASS
		2480	1.167	≥ 0.890	PASS
3DH5	Ant1	2402	1.011	≥ 0.876	PASS
		2441	1.167	≥ 0.876	PASS
		2480	1.182	≥ 0.876	PASS

Test Graphs







Appendix D: Number of hopping channels
Test Result

Test Mode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

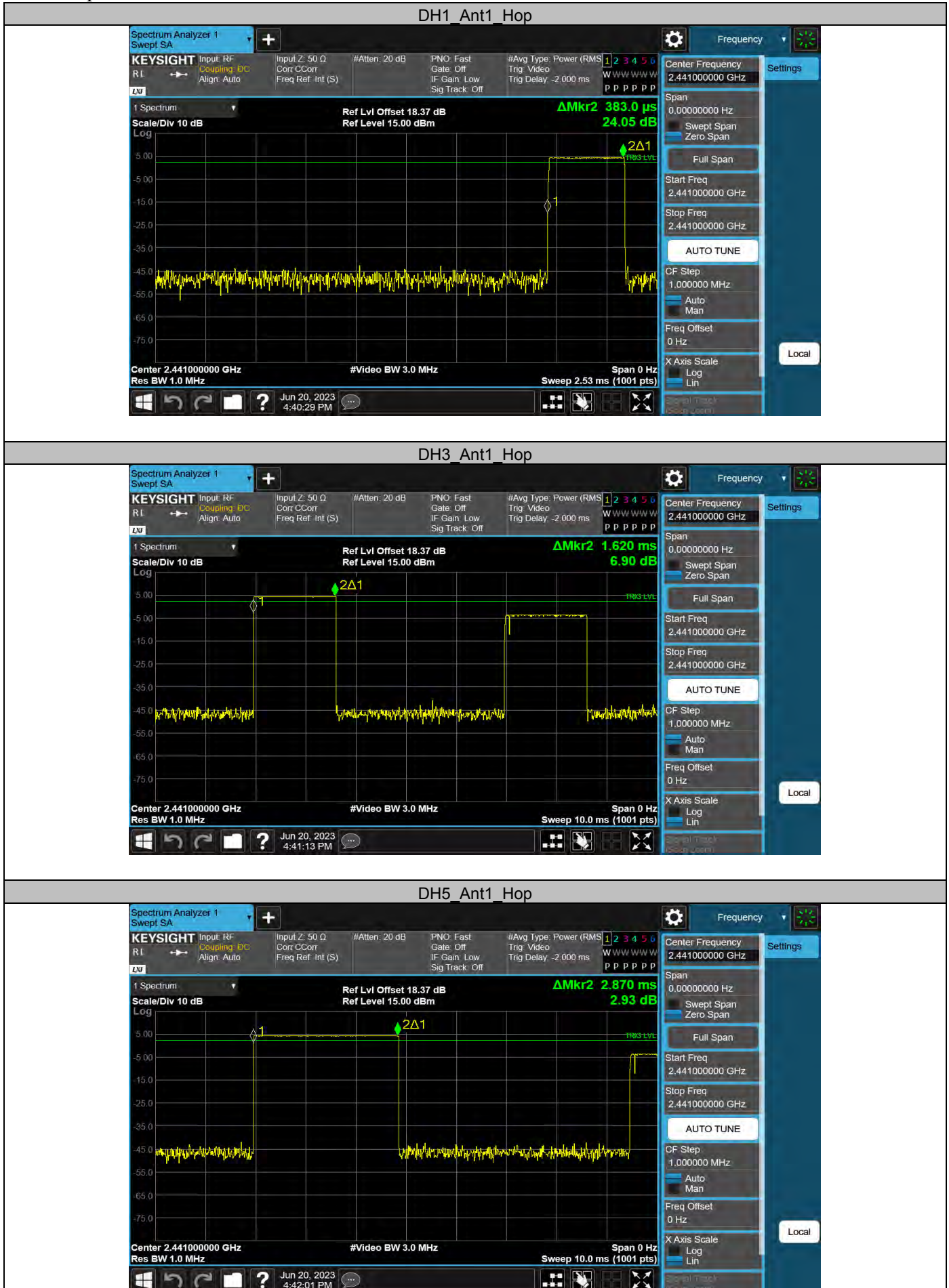
Test Graphs

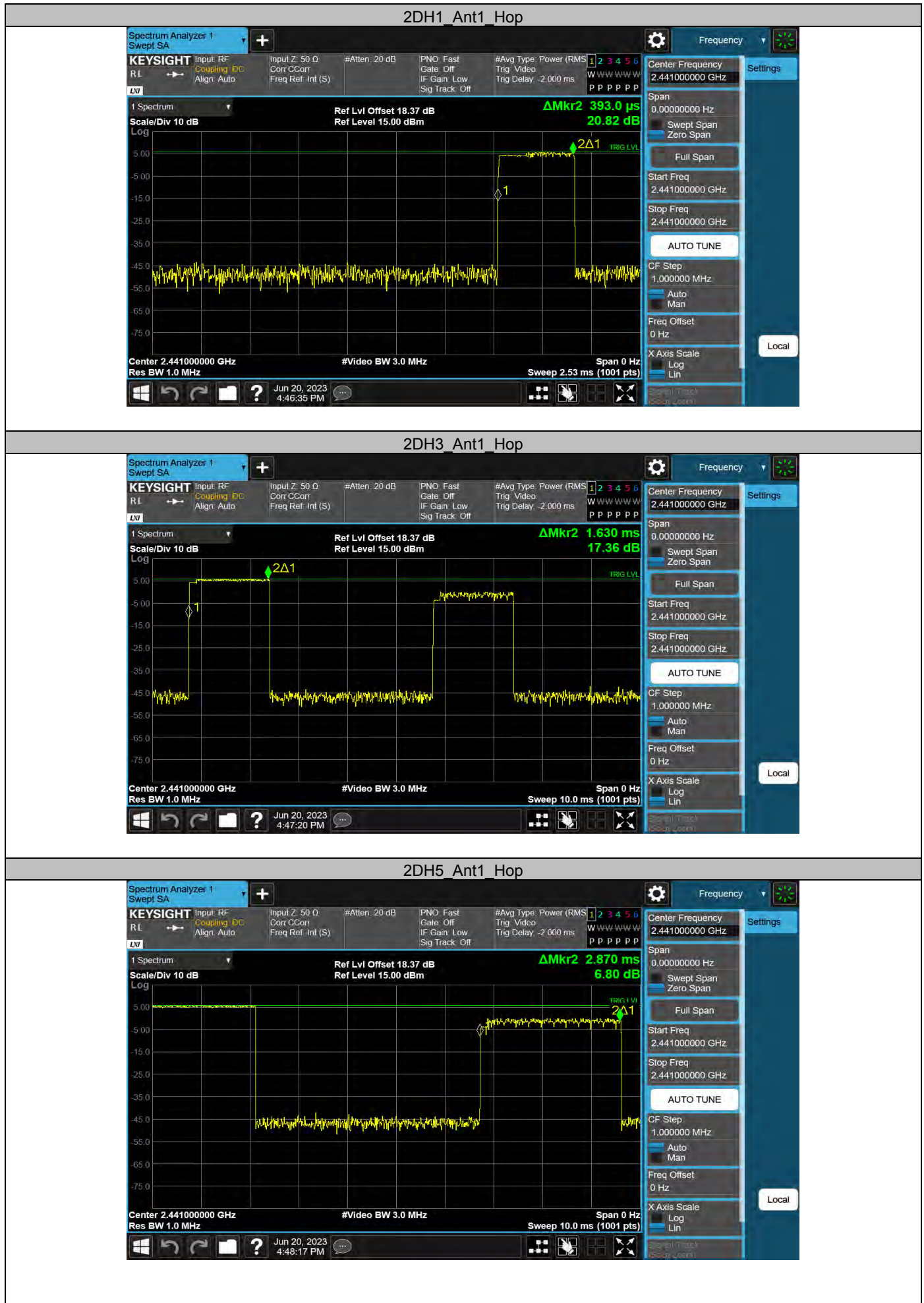


Appendix E: Time of occupancy Test Result

Test Mode	Antenna	Freq(MHz)	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.383	320	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.620	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.870	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.393	320	0.126	≤0.4	PASS
2DH3	Ant1	Hop	1.630	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.870	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.393	320	0.126	≤0.4	PASS
3DH3	Ant1	Hop	1.630	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS

Test Graphs



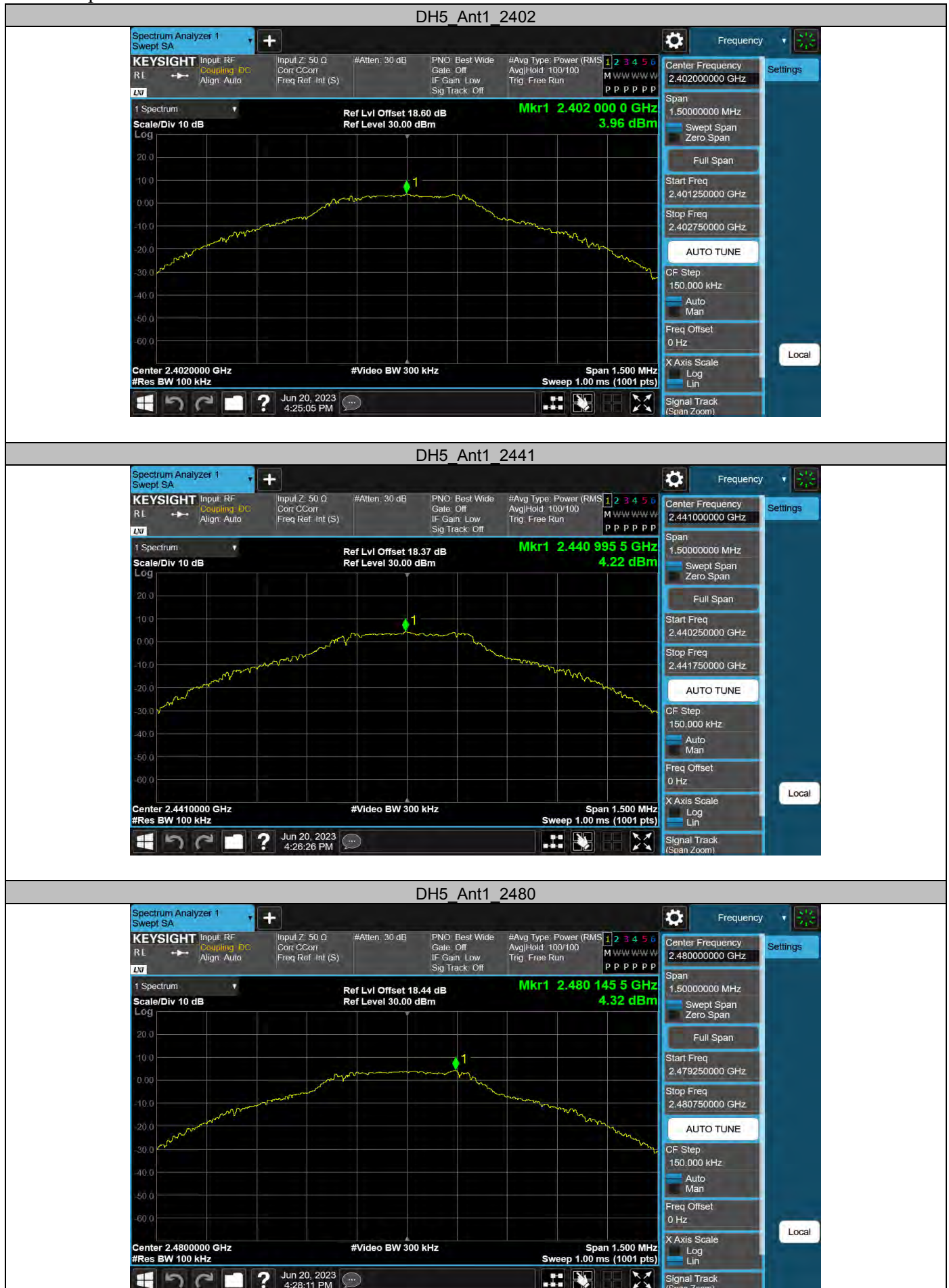




Appendix F: Reference level measurement
Test Result

Test Mode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
DH5	Ant1	2402	2402.00	3.97
		2441	2441.00	4.22
		2480	2480.15	4.32
2DH5	Ant1	2402	2402.16	3.91
		2441	2440.85	3.37
		2480	2480.00	3.49
3DH5	Ant1	2402	2402.00	3.91
		2441	2440.84	4.06
		2480	2480.15	4.33

Test Graphs



2DH5 Ant1 2402

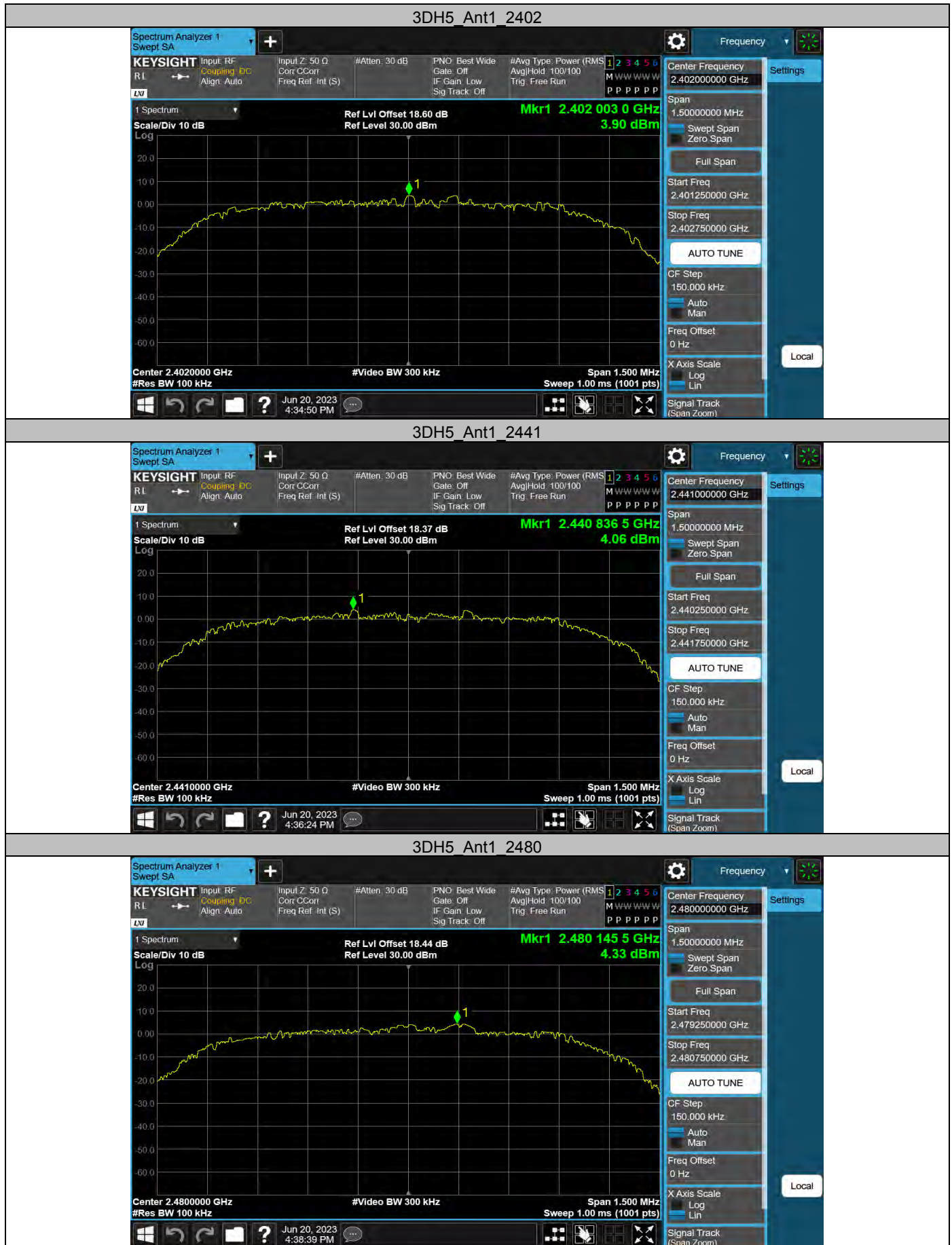


2DH5 Ant1 2441



2DH5 Ant1 2480



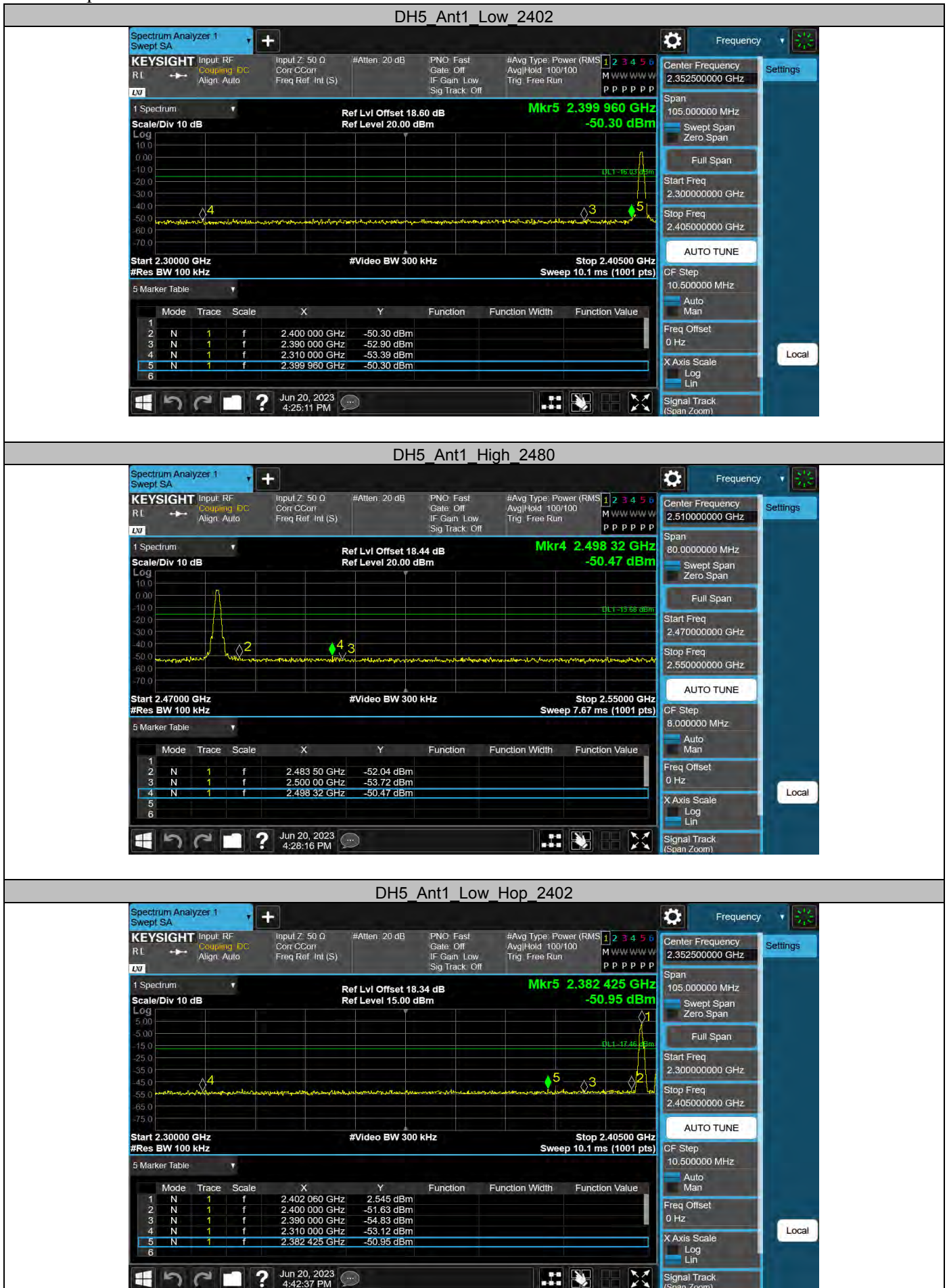


Appendix G: Band edge measurements

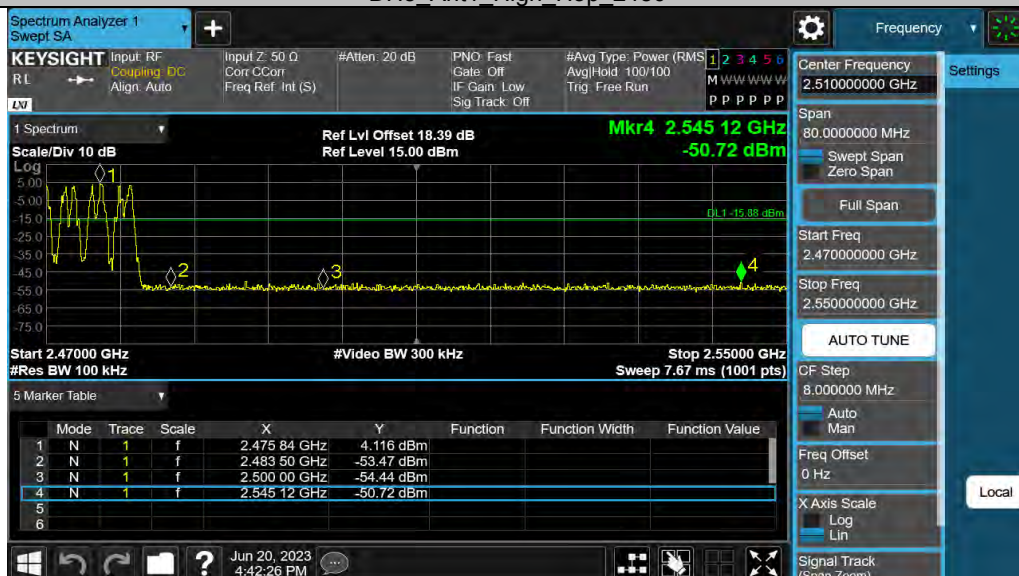
Test Result

Test Mode	Antenna	Ch Name	Freq(MHz)	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.97	-50.3	≤ -16.03	PASS
		High	2480	4.32	-50.47	≤ -15.68	PASS
		Low	Hop_2402	2.55	-50.95	≤ -17.46	PASS
		High	Hop_2480	4.12	-50.72	≤ -15.88	PASS
2DH5	Ant1	Low	2402	3.91	-46.94	≤ -16.09	PASS
		High	2480	3.49	-50.47	≤ -16.51	PASS
		Low	Hop_2402	-0.63	-51.62	≤ -20.63	PASS
		High	Hop_2480	2.22	-51.46	≤ -17.79	PASS
3DH5	Ant1	Low	2402	3.91	-46.5	≤ -16.09	PASS
		High	2480	4.33	-49.08	≤ -15.67	PASS
		Low	Hop_2402	1.42	-50.55	≤ -18.58	PASS
		High	Hop_2480	1.89	-50	≤ -18.12	PASS

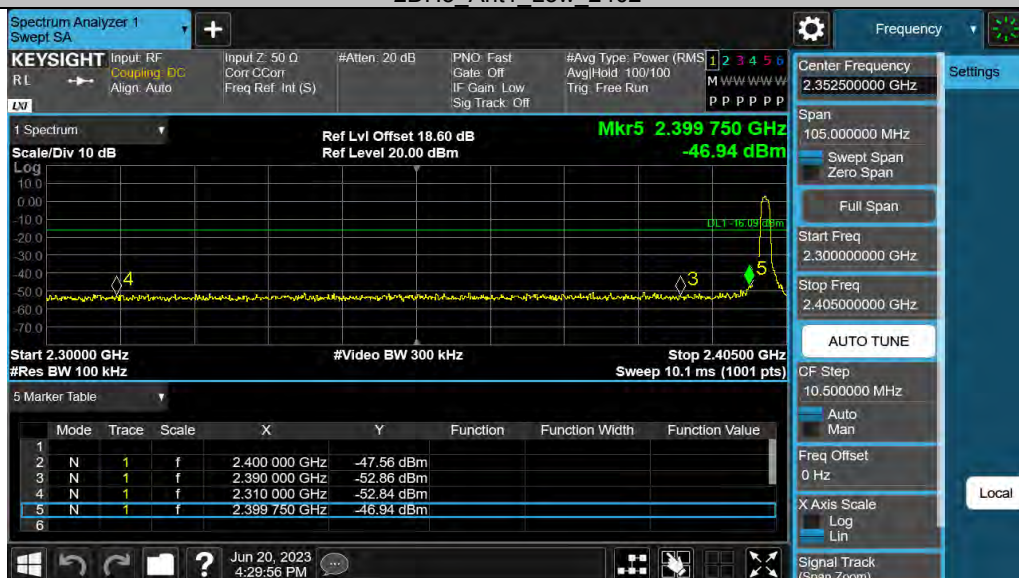
Test Graphs



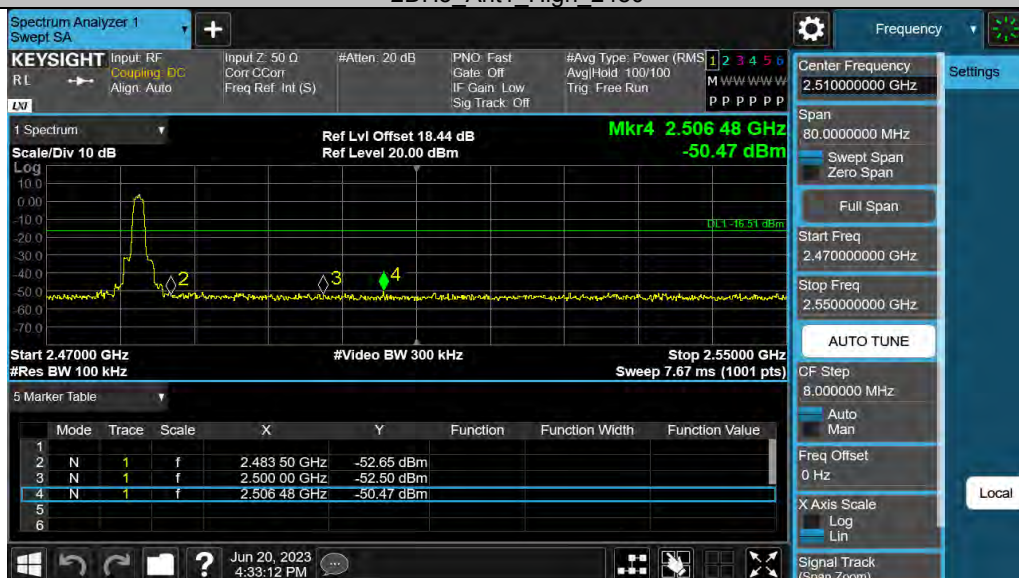
DH5 Ant1 High Hop 2480



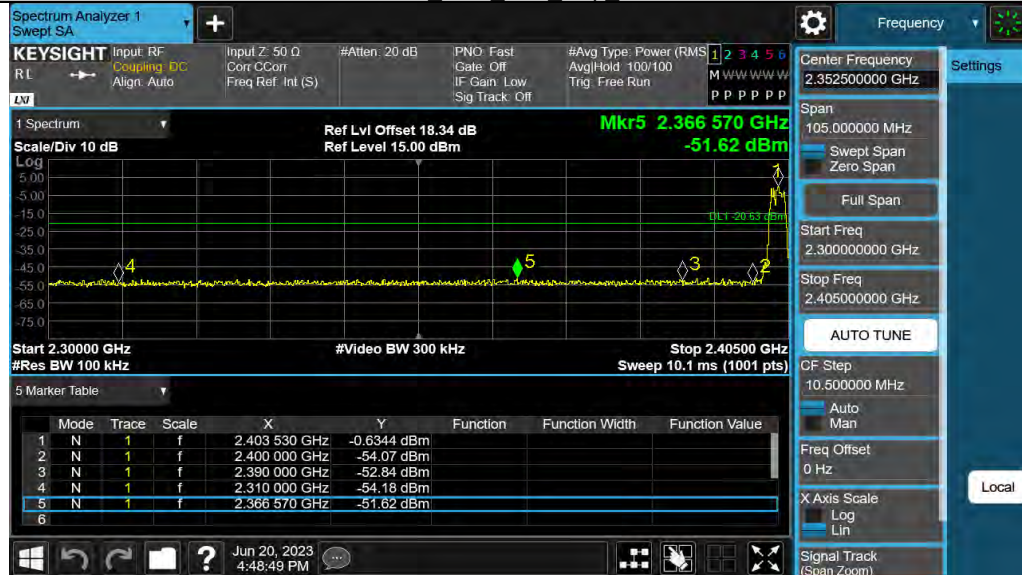
2DH5 Ant1 Low 2402



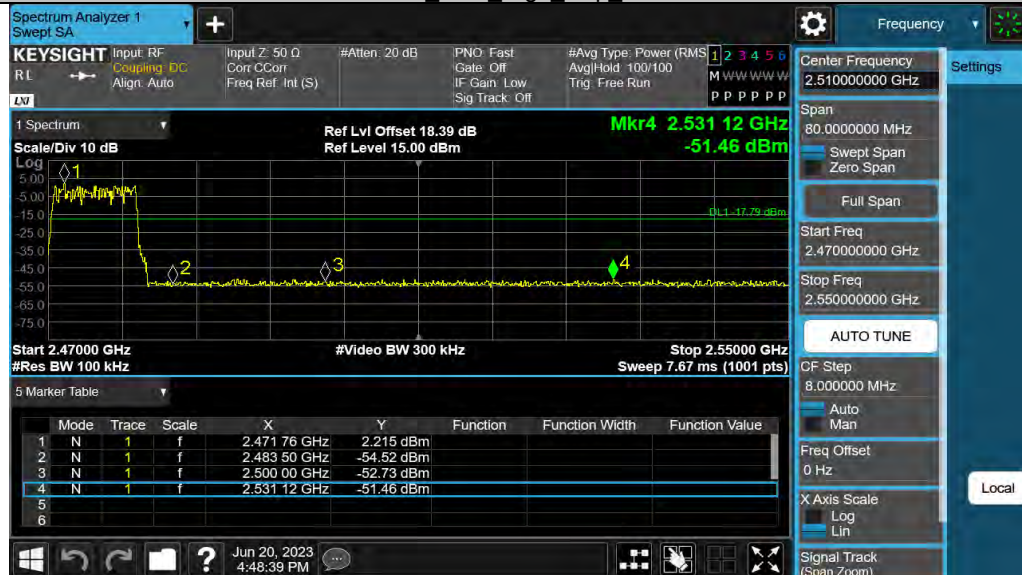
2DH5 Ant1 High 2480



2DH5 Ant1 Low Hop 2402

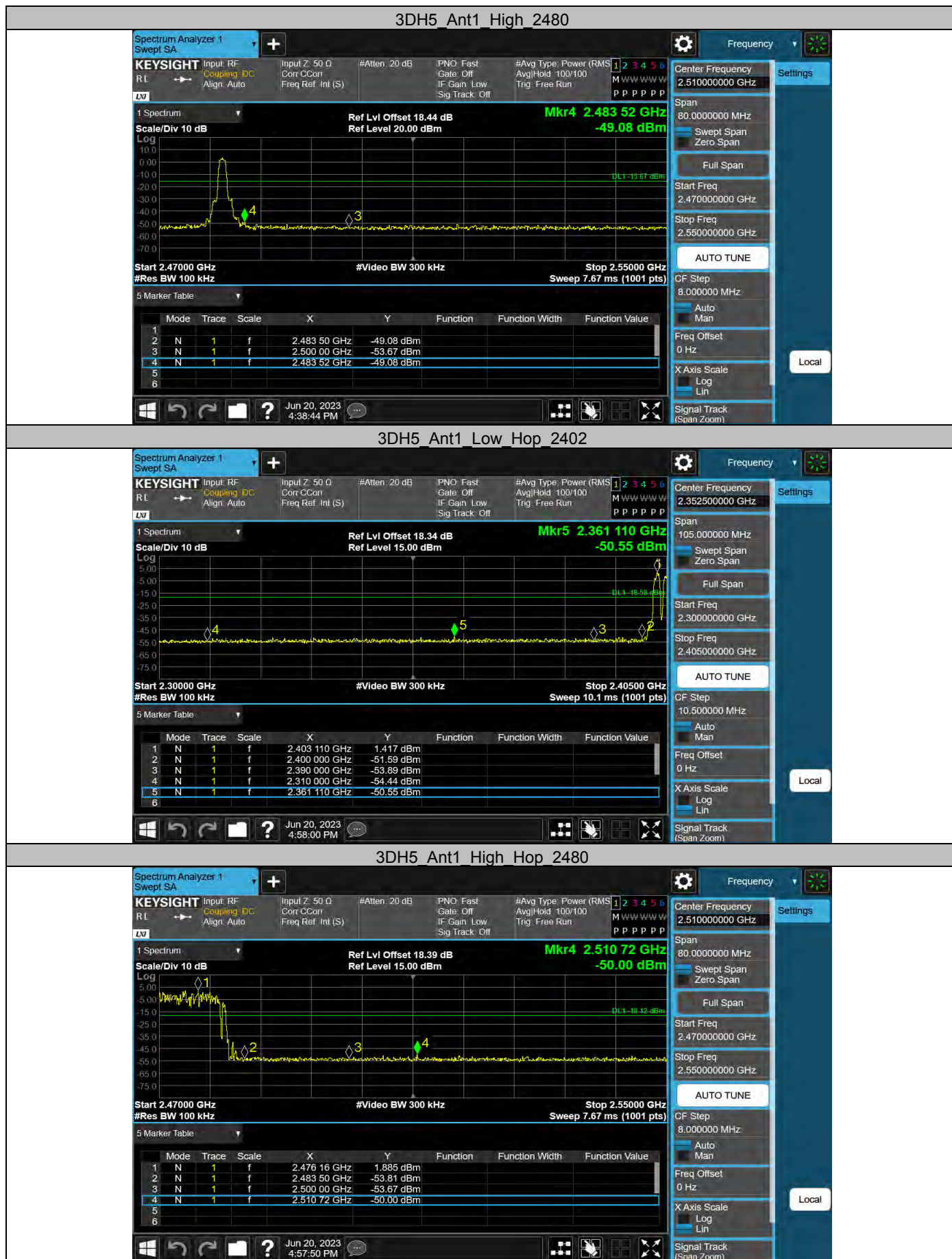


2DH5 Ant1 High Hop 2480



3DH5 Ant1 Low 2402

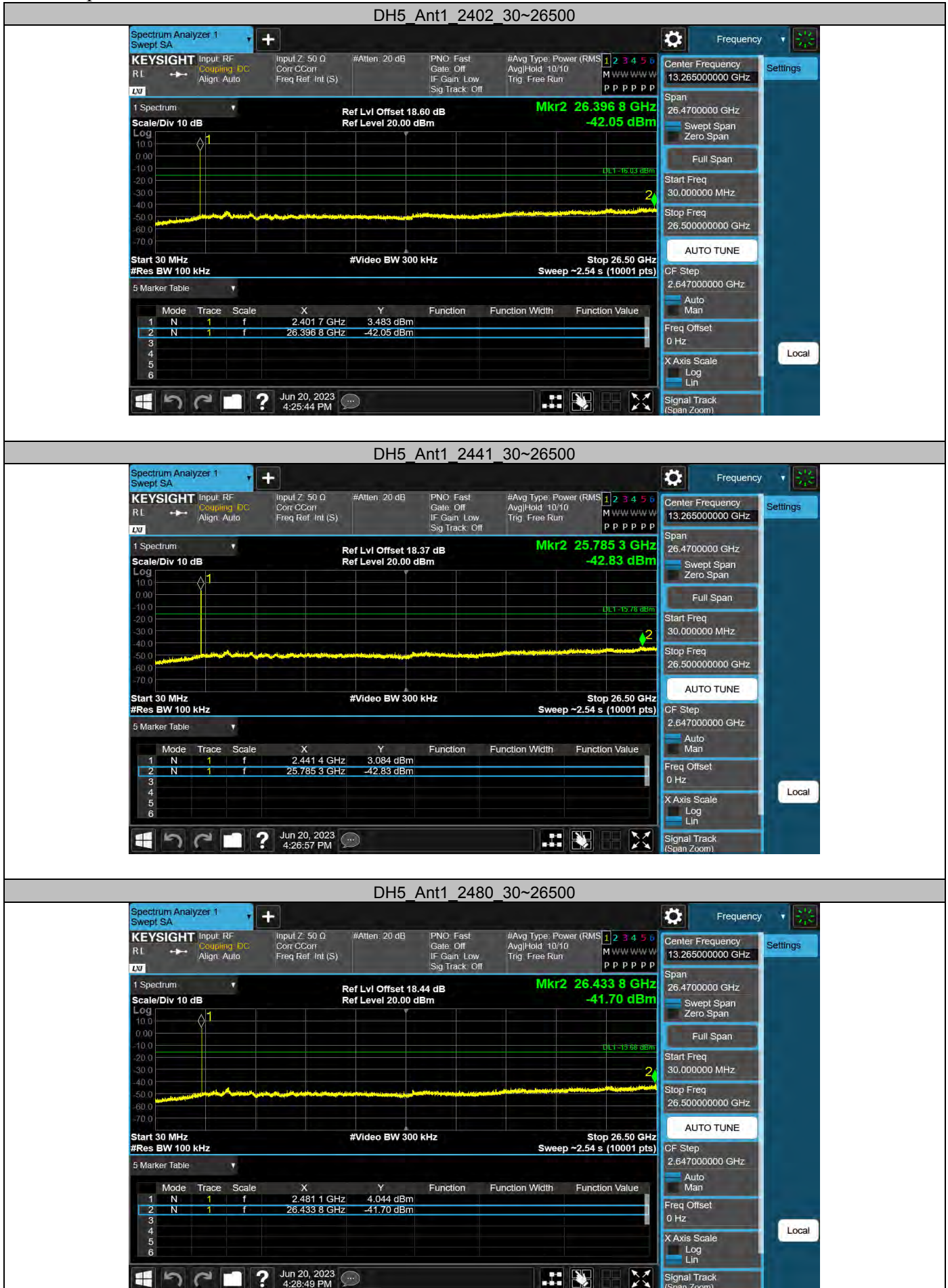




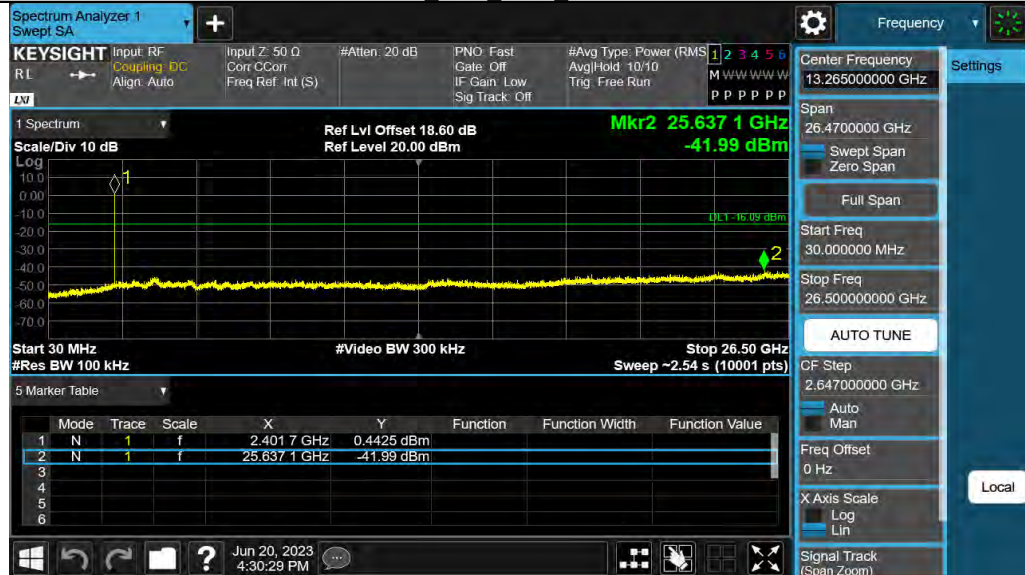
Appendix H: Conducted Spurious Emission Test Result

Test Mode	Antenna	Freq(MHz)	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~26500	3.97	-42.05	≤ -16.03	PASS
		2441	30~26500	4.22	-42.83	≤ -15.78	PASS
		2480	30~26500	4.32	-41.7	≤ -15.68	PASS
2DH5	Ant1	2402	30~26500	3.91	-41.99	≤ -16.09	PASS
		2441	30~26500	3.37	-42.48	≤ -16.63	PASS
		2480	30~26500	3.49	-43.14	≤ -16.51	PASS
3DH5	Ant1	2402	30~26500	3.91	-42	≤ -16.09	PASS
		2441	30~26500	4.06	-42.22	≤ -15.94	PASS
		2480	30~26500	4.33	-42.87	≤ -15.67	PASS

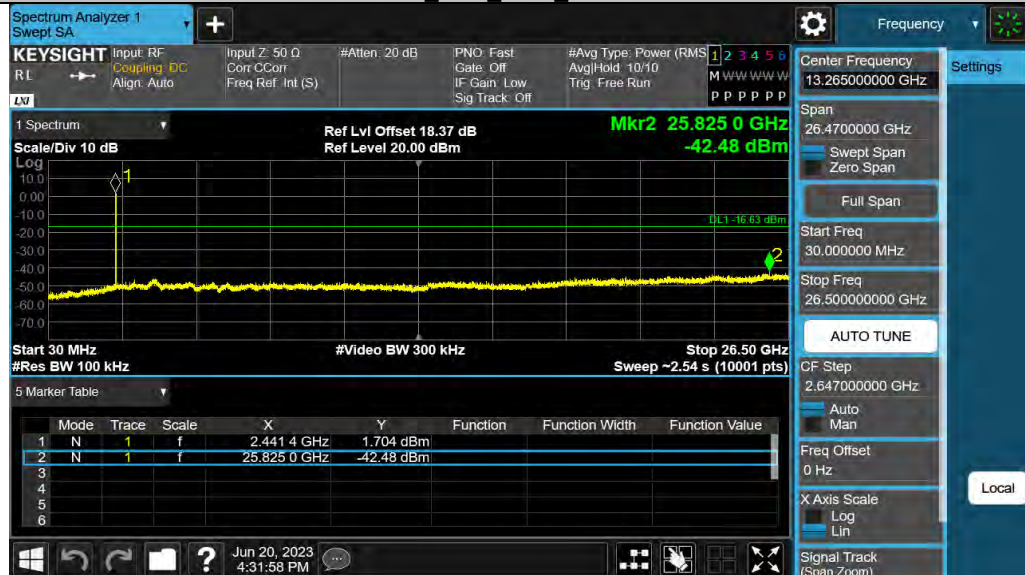
Test Graphs



2DH5 Ant1 2402 30~26500



2DH5_Ant1_2441_30~26500



2DH5 Ant1 2480 30~26500

