
FCC Test Report

Report No.: AGC02787260302FR01

FCC ID : 2ABYN105

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Hub Base

BRAND NAME : 

MODEL NAME : SkyTalk-H

APPLICANT : GODOX PHOTO EQUIPMENT CO.,LTD

DATE OF ISSUE : 24 Apr. 2026

STANDARD(S) : FCC Part 15 Subpart D §15.323

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	24 Apr. 2026	Valid	Initial Release

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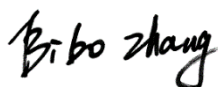
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1. General Information

Applicant	GODOX PHOTO EQUIPMENT CO.,LTD
Address	1st to 4th Floor, Building 2/1st to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518103 China
Manufacturer	GODOX Photo Equipment Co.,Ltd.
Address	4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,China
Factory	GODOX Photo Equipment Co.,Ltd.
Address	4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,China
Product Designation	Hub Base
Brand Name	
Test Model	SkyTalk-H
Series Model	N/A
Difference Description	N/A
Date of receipt of test item	10 Mar. 2026
Date of Test	16 Mar. 2026~24 Apr. 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-DECT-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By



Bibo Zhang

(Project Engineer)

24 Apr. 2026

Reviewed By



Jack Gui

(Reviewer)

24 Apr. 2026

Approved By



Angela Li

(Authorized Officer)

24 Apr. 2026

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2. Product Information

2.1 Product Technical Description

Equipment Type	Fixed Part (FP)
Frequency Band	1920 MHz to 1930 MHz
Operation Frequency Range	1921.536 MHz to 1928.448 MHz
Hardware Version	20230810H51
Software Version	V1.0
Type of Modulation	Digital (Gaussian Frequency Shift Keying)
Modulation Technique	GFSK
Number of channels	5 RF Channels, $5 \times 12 = 60$ TDMA Duplex Channels
Channel Separation	1728 kHz
Emission Designator	F7D
Maximum Transmitter Power	19.78 dBm
Antenna Designation	Rod
Antenna Gain	Single-antenna data: 3.43dBi Whole machine test data:1.30dBi
Power Supply	Input: DC5V/DC9V 2A V-mount Battery:14.4V or 26V
Test Sample Number	260310164

2.2 Test Frequency List

Frequency Band	Channel Number	Frequency
1920~1930MHz	0	1928.448 MHz
	1	1926.720 MHz
	2	1924.992 MHz
	3	1923.264 MHz
	4	1921.536 MHz
Note: All channels operation in the 1920-1930 MHz band, meeting the requirement of FCC 47 CFR Part 15.303		

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: 2ABYN105, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
5	ANSI C63.17-2013	American National Standard Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices

2.5 Automatic Discontinuation of Transmission

Does the EUT transmit Control and Signaling Information?

☒ Yes	☐ No
---	-----------------------------

Type of EUT:

☐ Initiating Device	☒ Responding Device
--	---

The following tests simulate the reaction of the EUT in case of either absence of information to transmit or operational failure after a connection with the companion device is established.

No.	Test	EUT Reaction	Results
1	Power removed: EUT	A	Pass
2	Switch Off: EUT	N/A	Pass
3	Hook-On: EUT	N/A	Pass
4	Power Removed: Companion Device	B	Pass
5	Switch Off: Companion Device	B	Pass
6	Hook-On: Companion Device	B	Pass

Note:

A - Connection breakdown, Cease of all transmissions
B - Connection breakdown, EUT transmits control and signaling information
C - Connection breakdown, Companion Device transmits control and signaling information
N/A : Not Applicable (EUT does not have On/Off switch and cannot perform Hook-On)

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2.6 Digital Modulation Techniques

The test sample is an isochronous digital modulated device that operates in 1920-1930 MHz band. This device bases on DECT technology described in European Standards EN 300 175-2 and EN 300 175-3, now operating in frequency channels mentioned above.

The operating modes are MC/TDMA/TDD (Multi carrier / Time Division Multiple Access / Time Division Duplex) using Digital GFSK (Gaussian Frequency Shift Keying) modulation.

For further details see operational description provided by manufacturer.

2.7 Special Accessories

Not available for this EUT intended for grant.

2.8 Equipment Modifications

Not available for this EUT intended for grant.

2.9 Antenna Requirement

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
EUT Antenna: The prototype uses an antenna with a non-standard interface, and users are not allowed to replace it at will. The gain of the antenna is 3.43dBi.

3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions	Extreme Conditions
Temperature range (°C)	15 - 35	0 - 40
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 14.4V	LV DC 12.96V/HV DC 15.84V

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-05-08	2026-05-07
☒	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2024-07-24	2026-07-23
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2025-05-08	2026-05-07
☒	AGC-ER-E033	RF Test Plat (DECT)	RTX	RTX-2012-HS-RF	N/A	2024-07-24	2026-07-23
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2026-01-14	2028-01-13
☒	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2025-03-24	2027-03-23
☒	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2025-05-18	2026-05-17
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A116	Band Stop Filter (1850-1950MHz)	MICRO-TRONICS	BRC50720	N/A	2025-05-21	2026-05-20
☒	AGC-EM-A091	High Pass Filter 2 (1200-18000MHz)	N/A	N/A	N/A	2025-05-16	2026-05-15
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	N/A	N/A
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	N/A	N/A

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● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2026-01-13	2028-01-12
☒	AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07
☒	AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S011	RSE Test System	Tonscend	TS ⁺ Ver2.1(JS36-RSE)	4.0.0.0
☒	AGC-EM-S003	RE Test System	FARA	EZ-EMC	V.RA-03A
☒	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71

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4. System Test Configuration

4.1 EUT Configuration

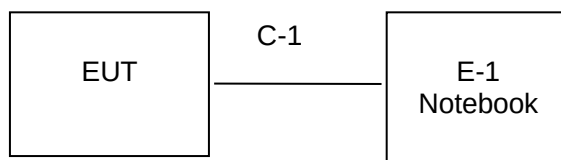
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

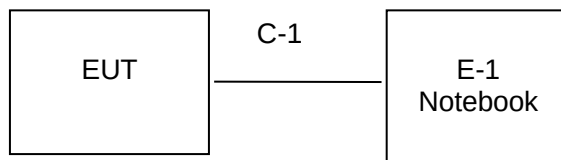
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



Conducted Emission Configure:



4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Manufacturer

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook	DELL	Inspiron 3501	N/A
C-1	USB cable	N/A	N/A	N/A

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4.5 Summary of Test Results

No.	FCC Rules	Description of Test	Reference Method	Result
1	§15.203, §15.317	Antenna Equipment	Declaration & Visual inspection	Pass
2	§15.323 (c)(e)	Specific Requirements for Upcs Device	ANSI C63.17-2013 Clause 6.2, 7.3, 7.5, 8.1, 8.2, 8.3, 8.4 and Paragraph 4	Pass
3	§15.303	Channel Frequency	Declaration	Pass
4	§15.319 (b)	Digital Modulation Techniques	Declaration	Pass
5	§15.319 (f)	Automatic Discontinuation of Transmission	Manual evaluation	Pass
6	§15.319(c)(e), §15.31(e)	Peak Transmit Power and Antenna Gain	ANSI C63.17-2013 Clause 6.1.2	Pass
7	§15.323 (a)	26dB Emission Bandwidth & 99% Occupied Bandwidth	ANSI C63.17-2013 Clause 6.1.3 or 7.4	Pass
8	§15.319 (d)	Power Spectral Density	ANSI C63.17-2013 Clause 6.1.5	Pass
9	§15.323 (d)	In-Band Emission	ANSI C63.17-2013 Clause 6.1.6.1	Pass
10	§15.323 (d)	Out-of-Band Emission	ANSI C63.17-2013 Clause 6.1.6.2	Pass
11	§15.323 (f)	Carrier Frequency Stability	ANSI C63.17-2013 Clause 6.2.1	Pass
12	§15.319(g), §15.323(d) §15.209(a), §15.109(a)	Radiated Emission	ANSI C63.10-2013 Clause 11.11 & Clause 11.12	Pass
13	§15.207, §15.315	AC Power Line Conducted Emission	ANSI C63.10-2013 Section 6.2	Pass

Note:

- 1) N/A: In this whole report not applicable.
- 2) Not required if the Conducted Out-of-Band Emissions test is passed, and assessed in the FCC 47 CFR Part 15B test report.

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5. Description of Test Modes

Summary table of Test Cases	
Test Item	Modulation
	DECT- Portable Part /GFSK
Radiated & Conducted Test Cases	Mode 1: UPCS TX CH00_1928.448 MHz (Connect the adapter) Mode 2: UPCS TX CH02_1924.992 MHz (Connect the adapter) Mode 3: UPCS TX CH04_1921.536 MHz (Connect the adapter) Mode 4: Normal Pairing Communication (GAP Mode)+ + AC/DC Adapter
AC Conducted Emission	Mode 1: Normal Pairing Communication (GAP Mode) + Battery + AC/DC Adapter

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. The battery is full-charged during the test.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

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6. 26dB Emission Bandwidth & 99% Occupied Bandwidth

6.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.319(c) & 15.319(e) for specification details:

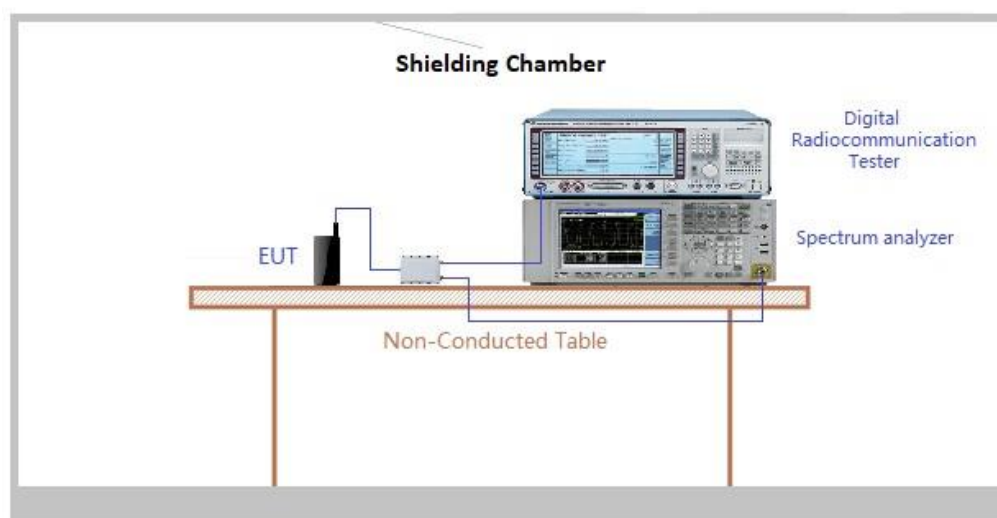
Operation shall be contained within the 1920–1930 MHz band. The emission bandwidth shall be less than 2.5 MHz. The power level shall be as specified in § 15.319(c), but in no event shall the emission bandwidth be less than 50 kHz

6.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.2

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
2. The EUT shall transmit in a burst mode (shall not be configured to transmit continuously) so that transient effects associated with the burst edges are captured by the emission bandwidth measurement.
3. Use the following spectrum analyzer settings:
 - a) Set RBW: Approximately 1% of the emission bandwidth (a rough estimate may be obtained from peak power level measurement, or use manufacturer's declared value).
 - b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Center frequency: Nominal center frequency of channel.
 - d) Span: $\geq 2 \times$ the expected emission bandwidth.
 - e) Sweep time: Coupled to frequency span and RBW.
 - f) Amplitude scale: Log.
 - g) Detection: Peak detection with maximum hold enabled.
4. Record the maximum level of the modulated carrier. Find the two furthest frequencies above and below the frequency of the maximum level of the modulated carrier where the signal level is 26 dB below the peak level of the carrier. The difference in frequency between these two frequencies is the emission bandwidth

6.3 Measurement Setup (Block Diagram of Configuration)



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6.4 Measurement Result

Module A

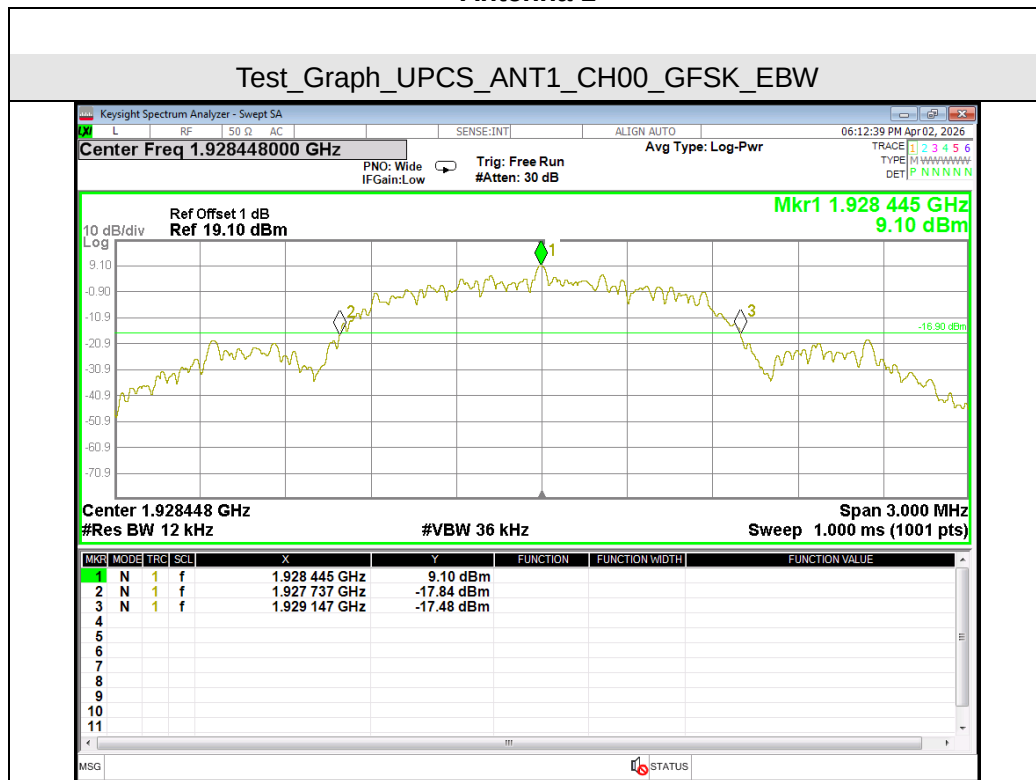
● For Antenna 1

Channel	Left frequency	Right frequency	26dB BW(MHz)	Limit
Low	1920.825	1922.235	1.410	50KHz~2.5MHz
Mid	1924.281	1925.691	1.410	
High	1927.737	1929.147	1.410	
AVG	\	\	1.410	

● For Antenna 2

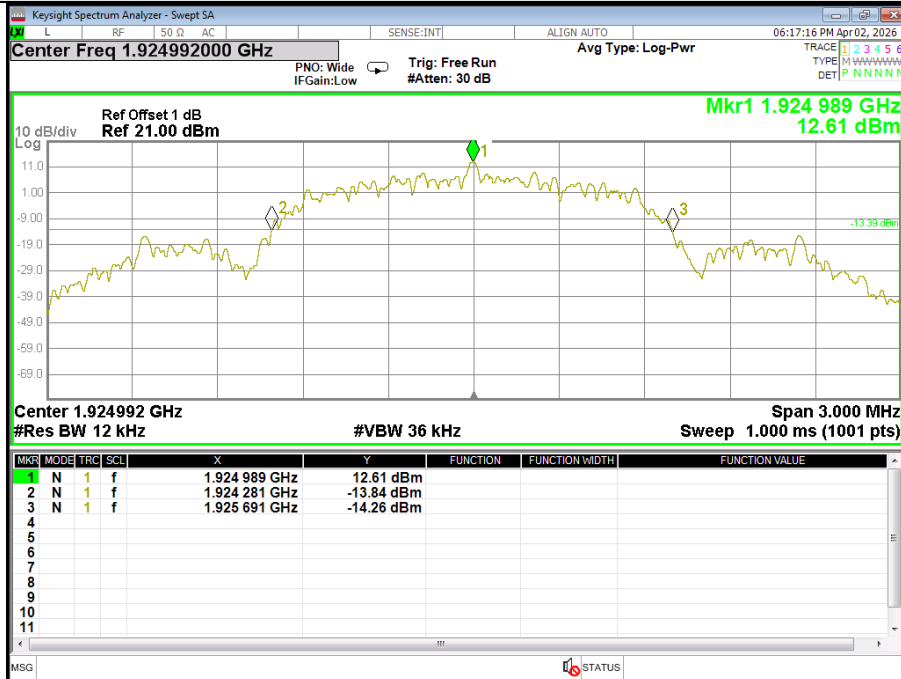
Channel	Left frequency	Right frequency	26dB BW(MHz)	Limit
Low	1920.825	1922.235	1.410	50KHz~2.5MHz
Mid	1924.281	1925.691	1.410	
High	1927.737	1929.147	1.410	
AVG	\	\	1.410	

Test Graphs of Occupied Bandwidth and -26dB Bandwidth Antenna 1

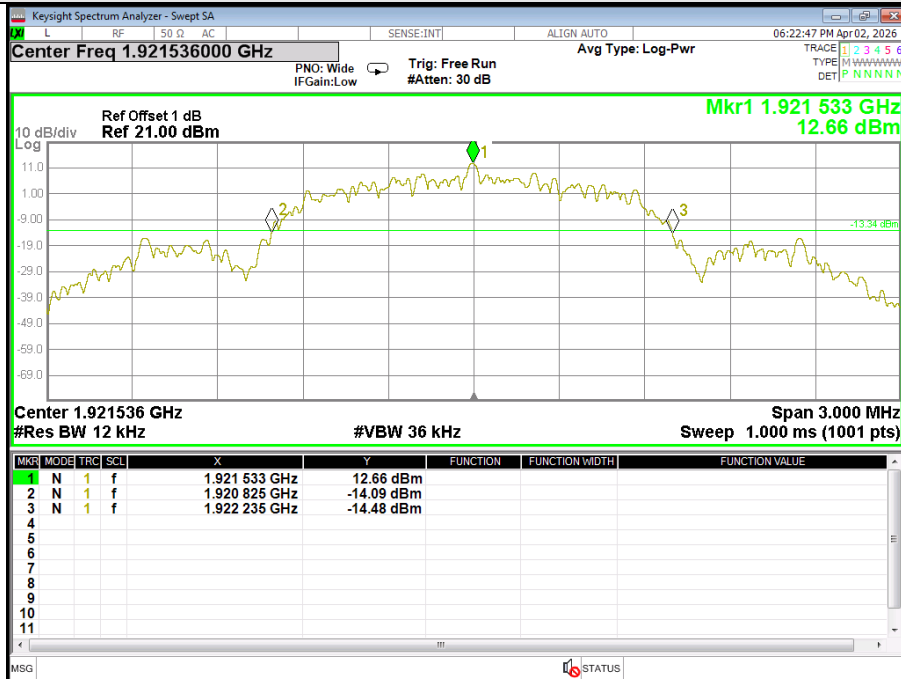


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Test_Graph_UPCS_ANT1_CH02_GFSK_EBW



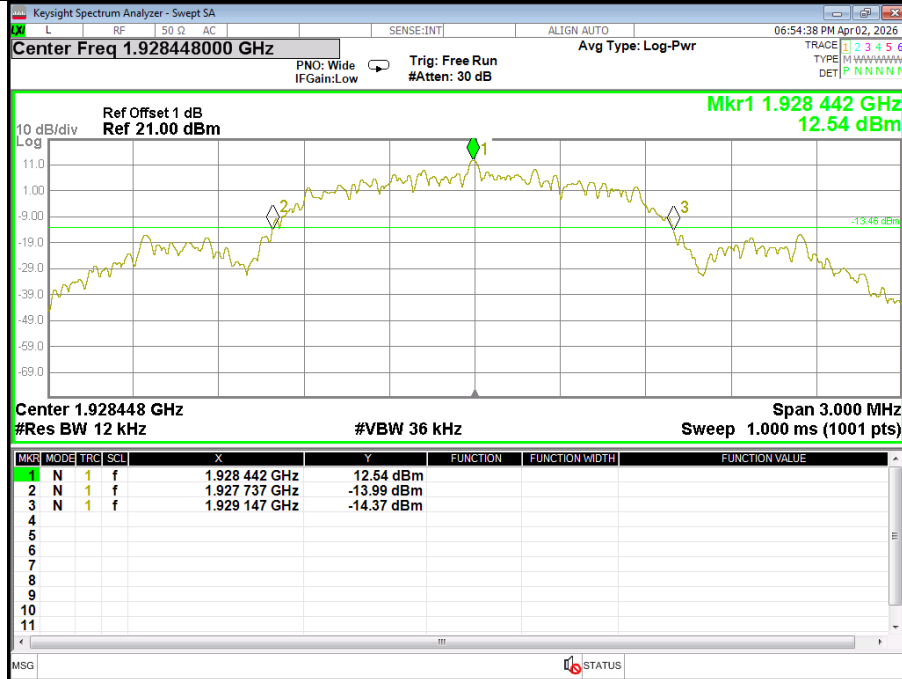
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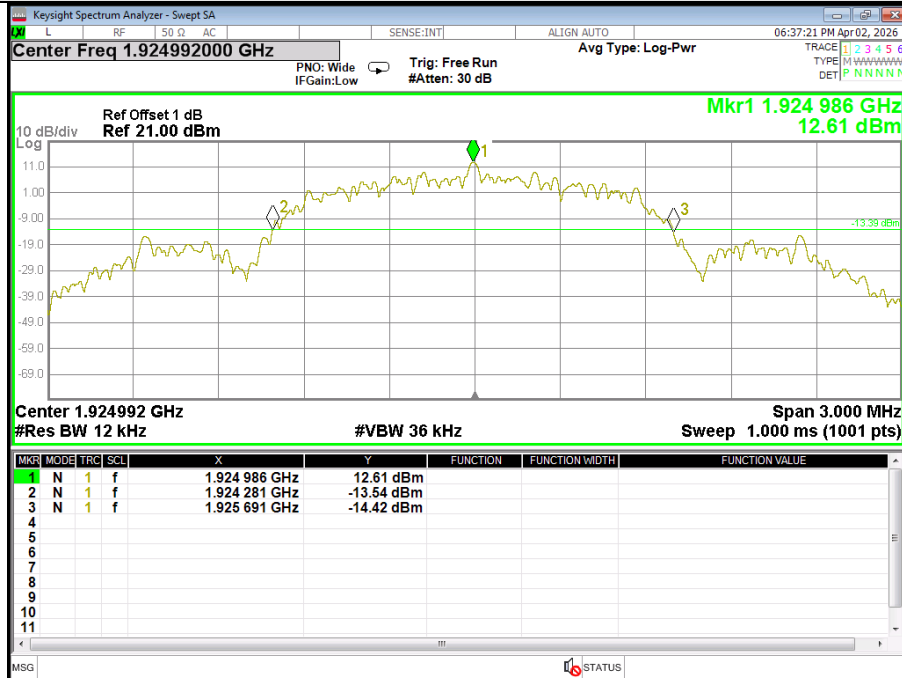
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Antenna 2

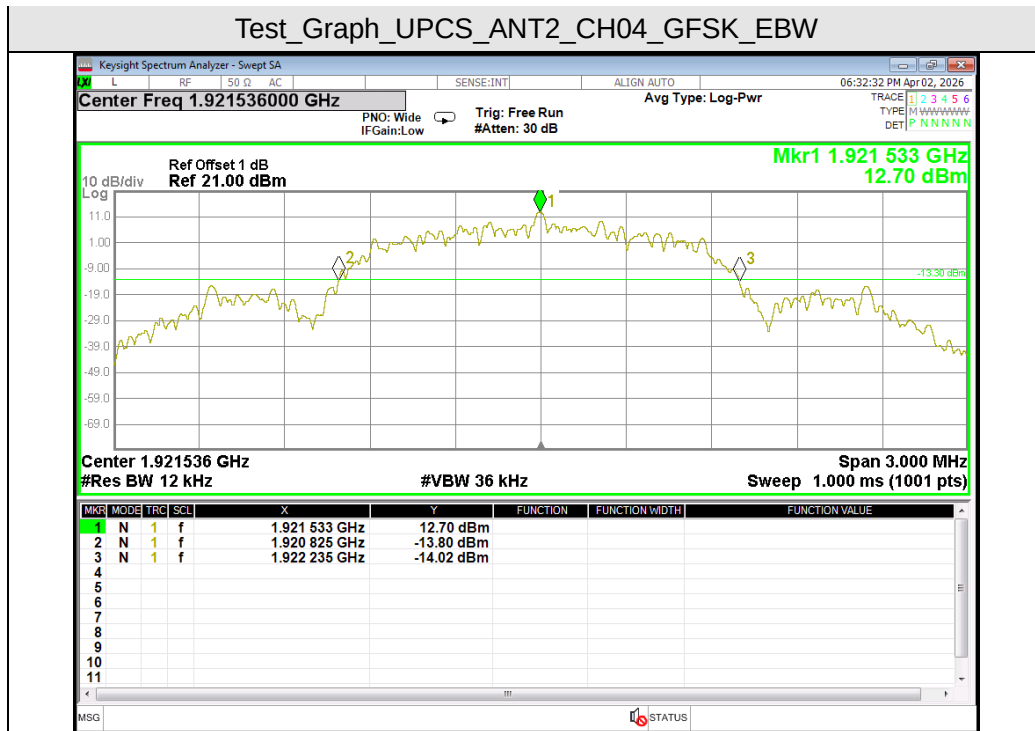
Test_Graph_UPCS_ANT2_CH00_GFSK_EBW



Test_Graph_UPCS_ANT2_CH02_GFSK_EBW



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Module B

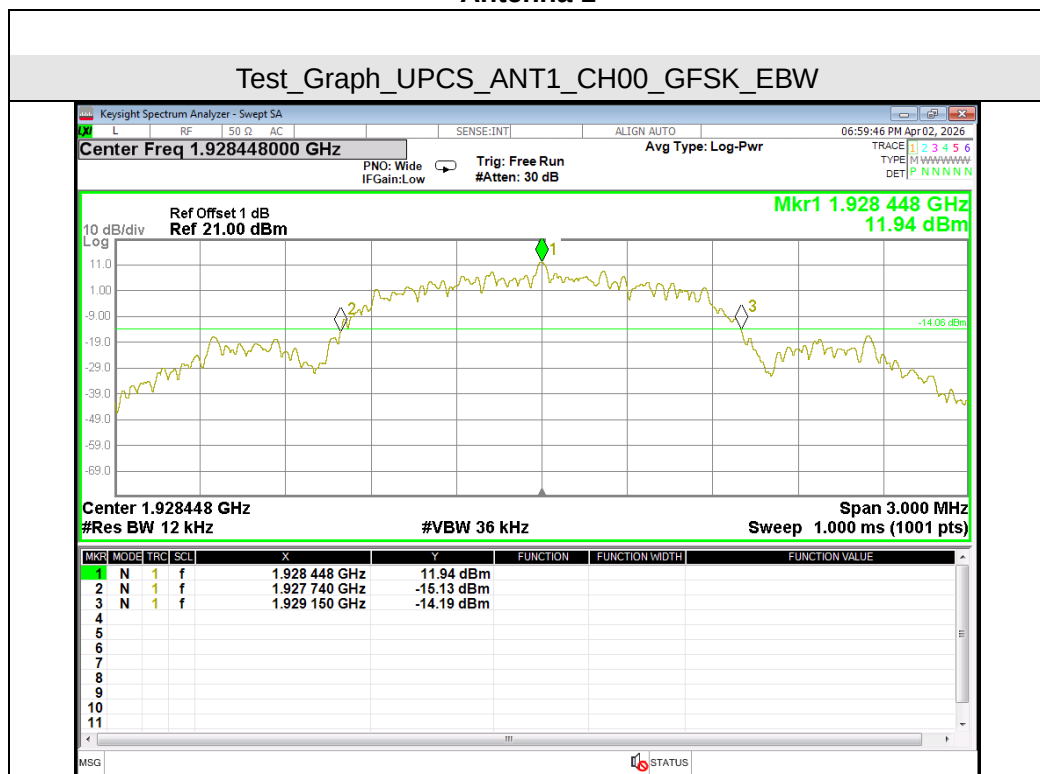
● For Antenna 1

Channel	Left frequency	Right frequency	26dB BW(MHz)	Limit
Low	1920.828	1922.238	1.410	50KHz~2.5MHz
Mid	1924.284	1925.694	1.410	
High	1927.74	1929.15	1.410	
AVG	\	\	1.410	

● For Antenna 2

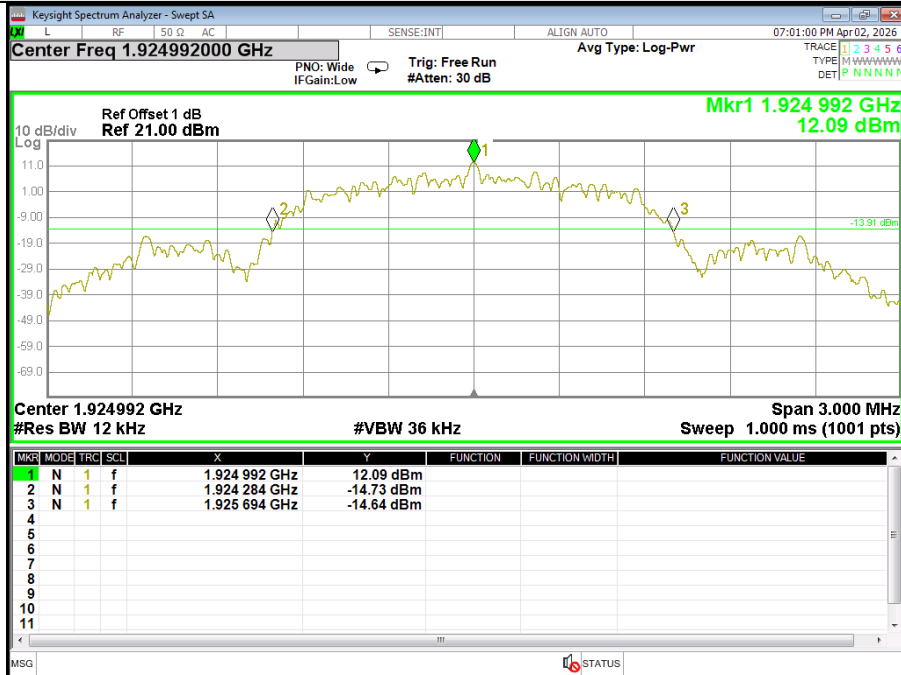
Channel	Left frequency	Right frequency	26dB BW(MHz)	Limit
Low	1920.828	1922.238	1.410	50KHz~2.5MHz
Mid	1924.284	1925.694	1.410	
High	1927.74	1929.15	1.410	
AVG	\	\	1.410	

Test Graphs of Occupied Bandwidth and -26dB Bandwidth
Antenna 1

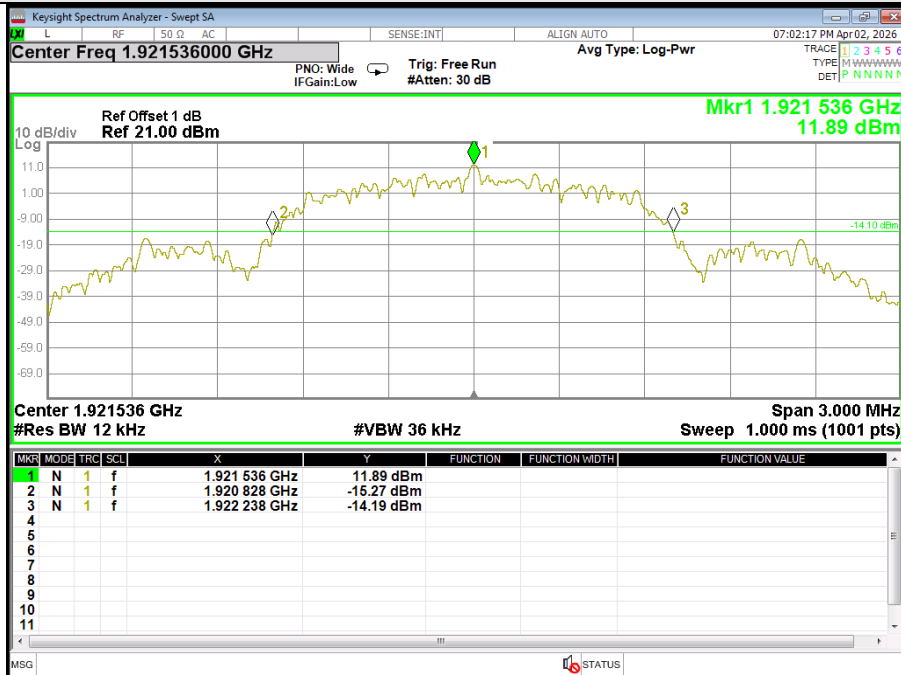


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Test_Graph_UPCS_ANT1_CH02_GFSK_EBW



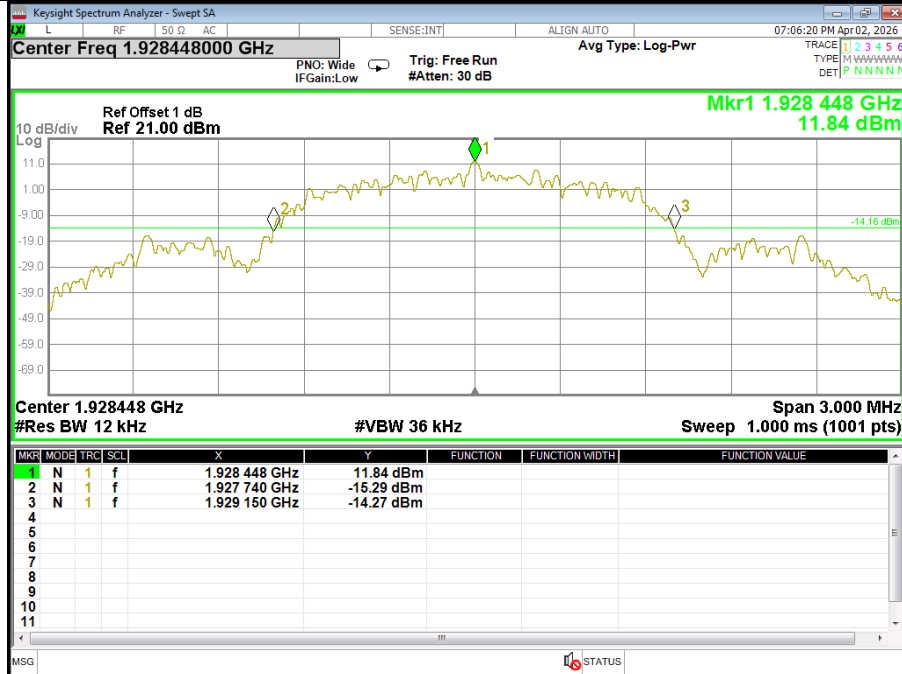
Test_Graph_UPCS_ANT1_CH04_GFSK_EBW



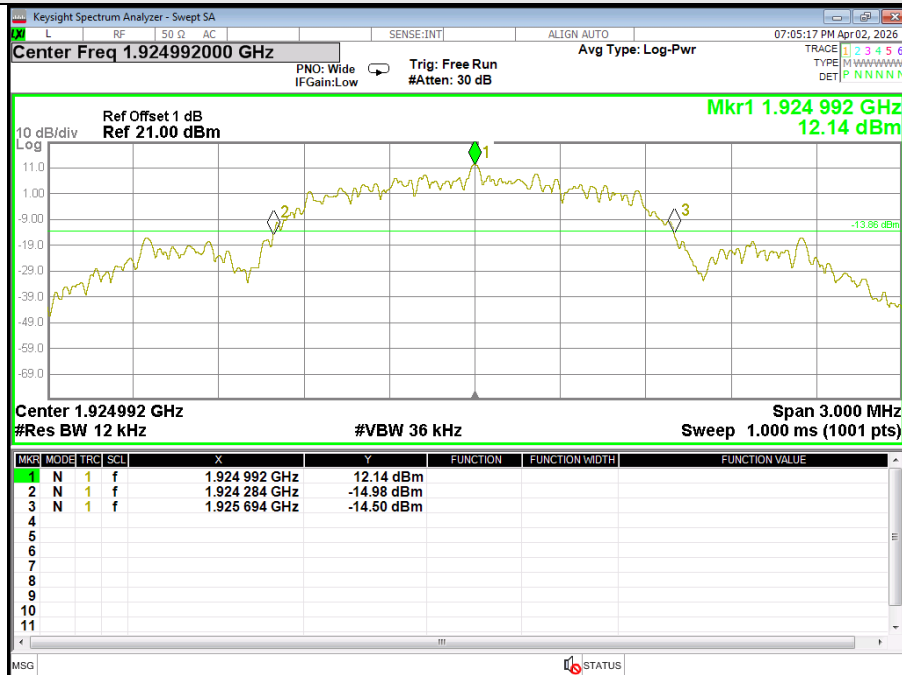
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Antenna 2

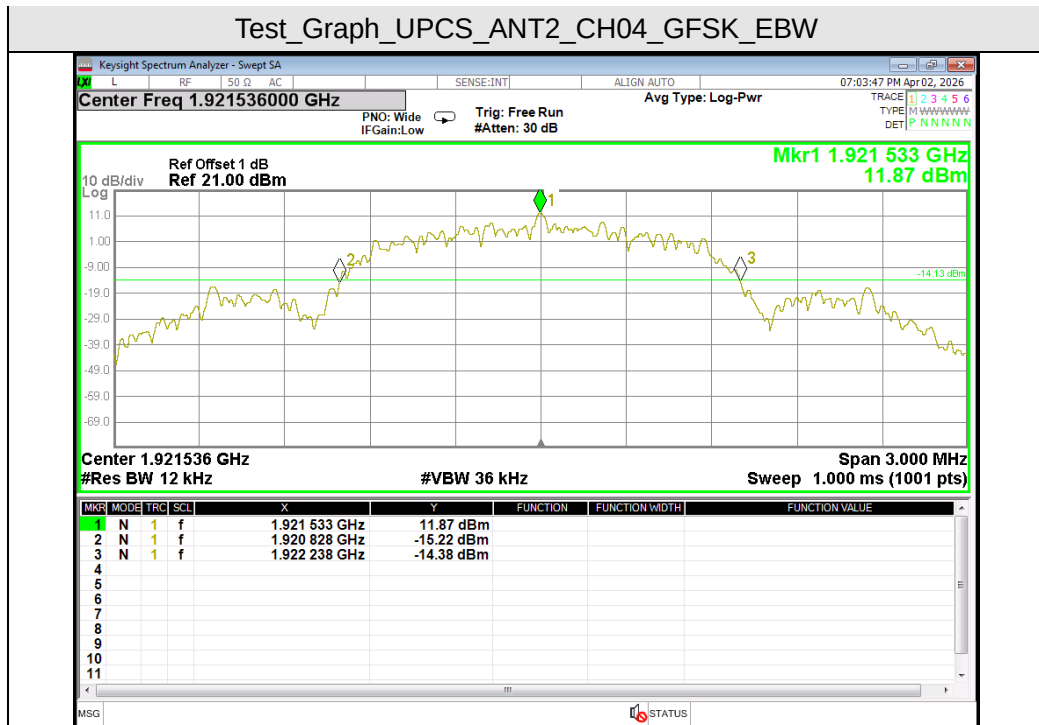
Test_Graph_UPCS_ANT2_CH00_GFSK_EBW



Test_Graph_UPCS_ANT2_CH02_GFSK_EBW



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7. Peak Transmit Power and Antenna Gain

7.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.319(c) & 15.319(e) for specification details:

Peak transmit power shall not exceed 100 microwatts multiplied by the square root of the emission bandwidth in hertz. Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

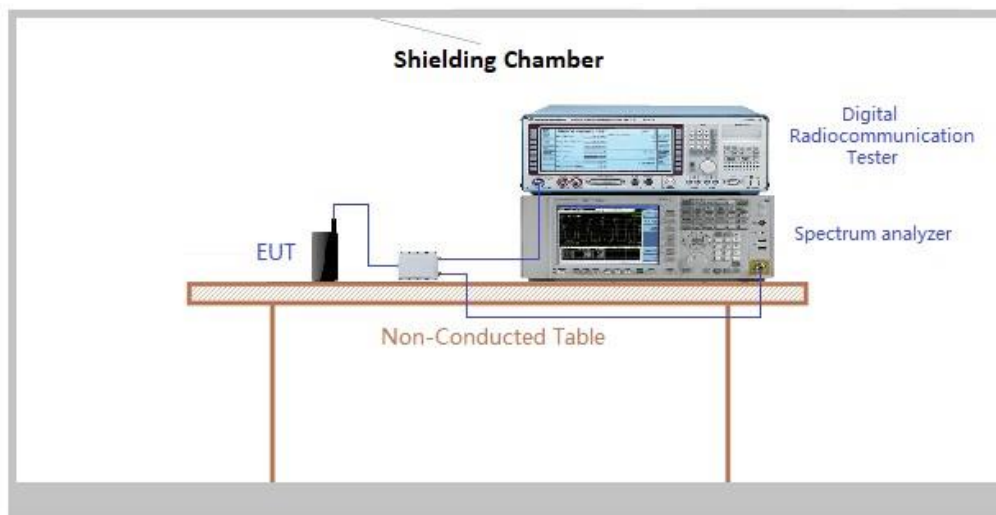
The peak transmit power shall be reduced by the amount in decibels that the maximum directional gain of the antenna exceeds 3 dBi.

7.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.2

RBW	≥ Emission bandwidth
Video bandwidth	≥ RBW
Span	Span Zero
Center frequency	Nominal center frequency of transmit carrier
Amplitude scale	Log (linear may be used if analyzer has sufficient linear dynamic range and accuracy)
Detection	Peak detection
Trigger Video	Trigger Video
Sweep rate	Sufficiently rapid to permit the transmit pulse to be resolved accurately

7.3 Measurement Setup (Block Diagram of Configuration)



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7.4 Measurement Result

Module A

● For Antenna 1

Calculation of Peak Transmit Power Limit (P_{max}):		
☒	$P_{max} = 5 \cdot \log_{10} B - 10$	When $G_A \leq 3\text{dBi}$
☐	$P_{max} = 5 \cdot \log_{10} B - 10 \text{ dBm} - (G_A - 3\text{dBi})$	When $G_A > 3\text{dBi}$
Where,	G_A	= EUT Gain: 3.43 dBi
	B	= Measured Emission Bandwidth (Hz)
Calculation of EIRP Limit:		
☐	EIRP_{EUT}	$\leq P_{max} + g, G_A > g (g=3\text{dBi})$
☒	EIRP_{EUT}	$\leq P_{max} + G_A, G_A \leq g (g=3\text{dBi})$

Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)	Limit (uW)	Limit (dBm)
Low	1921.536	19.78	118743	20.32
Mid	1924.992	19.77	118743	20.32
High	1928.448	19.36	118743	20.32
EBWLow Channel=	1410000			Hz
EBWMid Channel=	1410000			Hz
EBWHigh Channel=	1410000			Hz
Note:Peak Transmitter Power Limit=100（EBW）1/2μW-0.43				

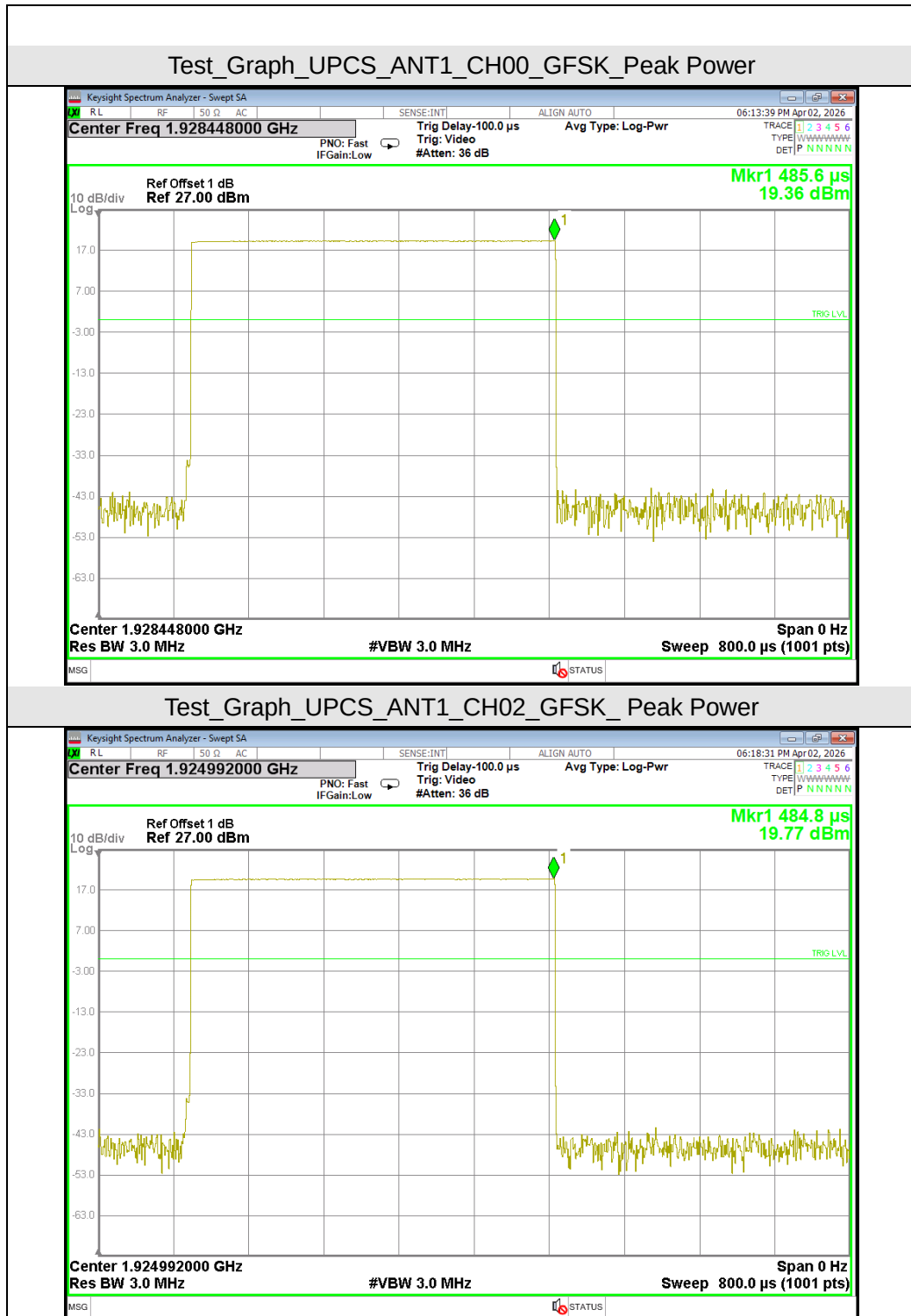
● For Antenna 2

Calculation of Peak Transmit Power Limit (P_{max}):		
☒	$P_{max} = 5 \cdot \log_{10} B - 10$	When $G_A \leq 3\text{dBi}$
☐	$P_{max} = 5 \cdot \log_{10} B - 10 \text{ dBm} - (G_A - 3\text{dBi})$	When $G_A > 3\text{dBi}$
Where,	G_A	= EUT Gain: 3.43 dBi
	B	= Measured Emission Bandwidth (Hz)
Calculation of EIRP Limit:		
☐	EIRP_{EUT}	$\leq P_{max} + g, G_A > g (g=3\text{dBi})$
☒	EIRP_{EUT}	$\leq P_{max} + G_A, G_A \leq g (g=3\text{dBi})$

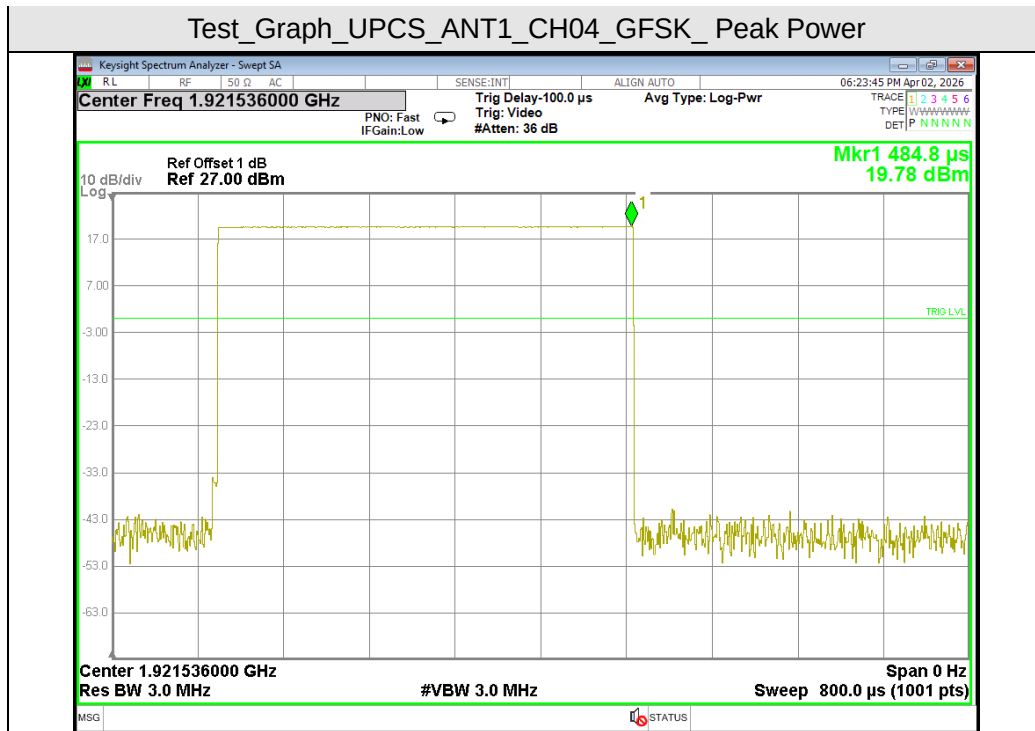
Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)	Limit (uW)	Limit (dBm)
Low	1921.536	19.93	118743	20.32
Mid	1924.992	19.81	118743	20.32
High	1928.448	19.71	118743	20.32
EBWLow Channel=	1410000			Hz
EBWMid Channel=	1410000			Hz
EBWHigh Channel=	1410000			Hz
Note:Peak Transmitter Power Limit=100（EBW）1/2μW-0.43				

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

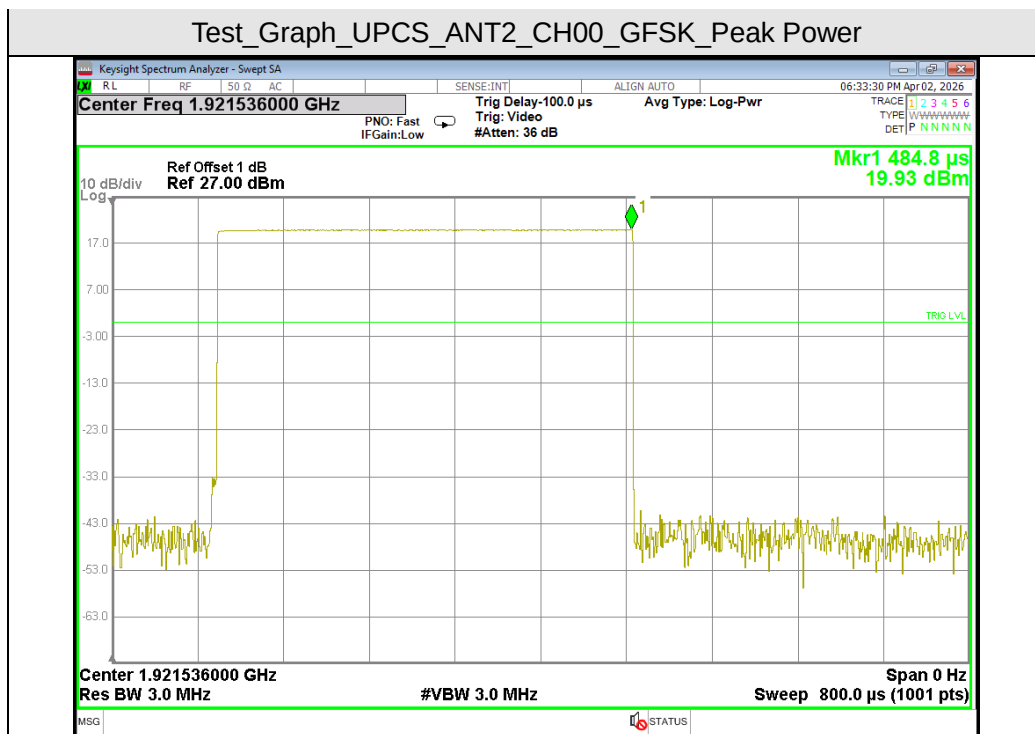
Test Graphs of Peak Transmit Power
Module A
Antenna 1



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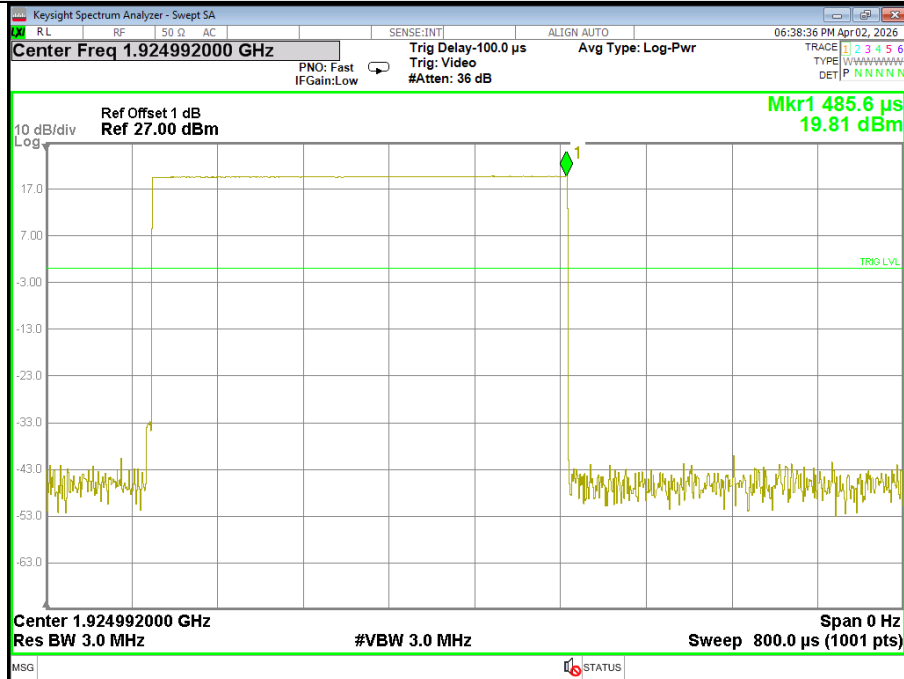


Antenna 2

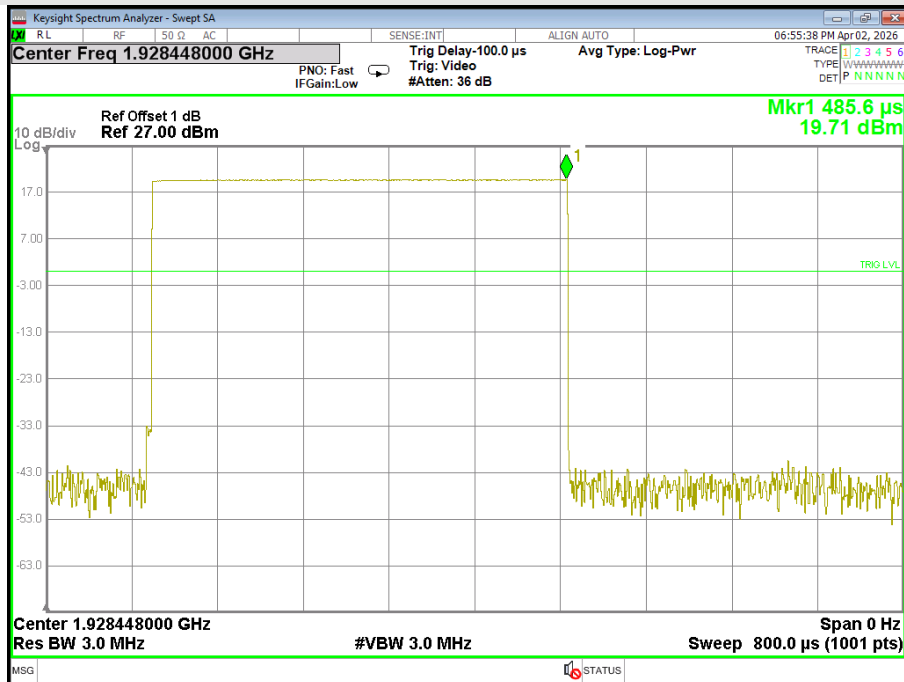


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Test_Graph_UPCS_ANT2_CH02_GFSK_Peak Power



Test_Graph_UPCS_ANT2_CH04_GFSK_Peak Power



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Module B

● For Antenna 1

Calculation of Peak Transmit Power Limit ($P_{\max}$):		
☒	$P_{\max} = 5 \cdot \log_{10} B - 10$	When $G_A \leq 3\text{dBi}$
☐	$P_{\max} = 5 \cdot \log_{10} B - 10 \text{ dBm} - (G_A - 3\text{dBi})$	When $G_A > 3\text{dBi}$
Where,	G_A	= EUT Gain: 3.43 dBi
	B	= Measured Emission Bandwidth (Hz)
Calculation of EIRP Limit:		
☐	EIRP_{EUT}	$\leq P_{\max} + g, G_A > g (g=3\text{dBi})$
☒	EIRP_{EUT}	$\leq P_{\max} + G_A, G_A \leq g (g=3\text{dBi})$

Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)	Limit (uW)	Limit (dBm)
Low	1921.536	19.47	118743	20.32
Mid	1924.992	19.14	118743	20.32
High	1928.448	19.34	118743	20.32
EBW _{Low Channel} =	1410000			Hz
EBW _{Mid Channel} =	1410000			Hz
EBW _{High Channel} =	1410000			Hz
Note:Peak Transmitter Power Limit=100（EBW）1/2μW-0.43				

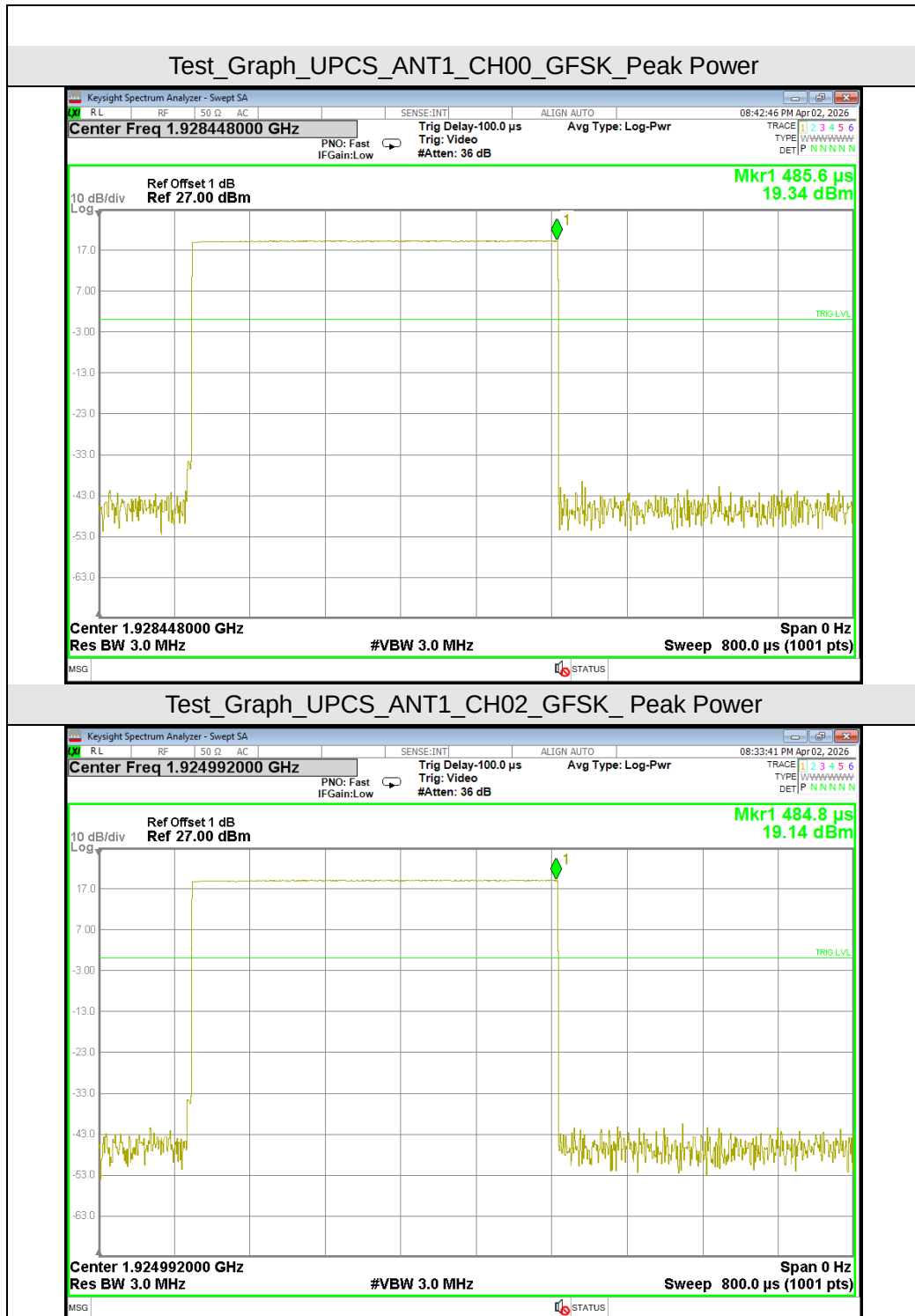
For Antenna 2

Calculation of Peak Transmit Power Limit ($P_{\max}$):		
☒	$P_{\max} = 5 \cdot \log_{10} B - 10$	When $G_A \leq 3\text{dBi}$
☐	$P_{\max} = 5 \cdot \log_{10} B - 10 \text{ dBm} - (G_A - 3\text{dBi})$	When $G_A > 3\text{dBi}$
Where,	G_A	= EUT Gain: 3.43 dBi
	B	= Measured Emission Bandwidth (Hz)
Calculation of EIRP Limit:		
☐	EIRP_{EUT}	$\leq P_{\max} + g, G_A > g (g=3\text{dBi})$
☒	EIRP_{EUT}	$\leq P_{\max} + G_A, G_A \leq g (g=3\text{dBi})$

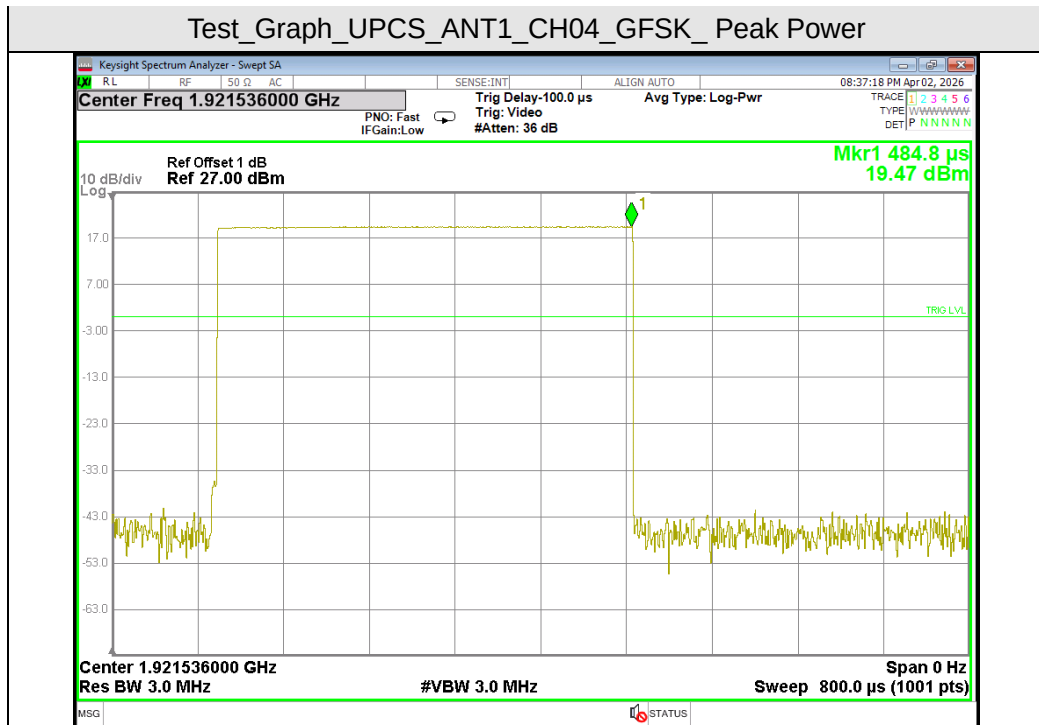
Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)	Limit (uW)	Limit (dBm)
Low	1921.536	19.53	118743	20.32
Mid	1924.992	19.5	118743	20.32
High	1928.448	19.49	118743	20.32
EBW _{Low Channel} =	1410000			Hz
EBW _{Mid Channel} =	1410000			Hz
EBW _{High Channel} =	1410000			Hz
Note:Peak Transmitter Power Limit=100（EBW）1/2μW-0.43				

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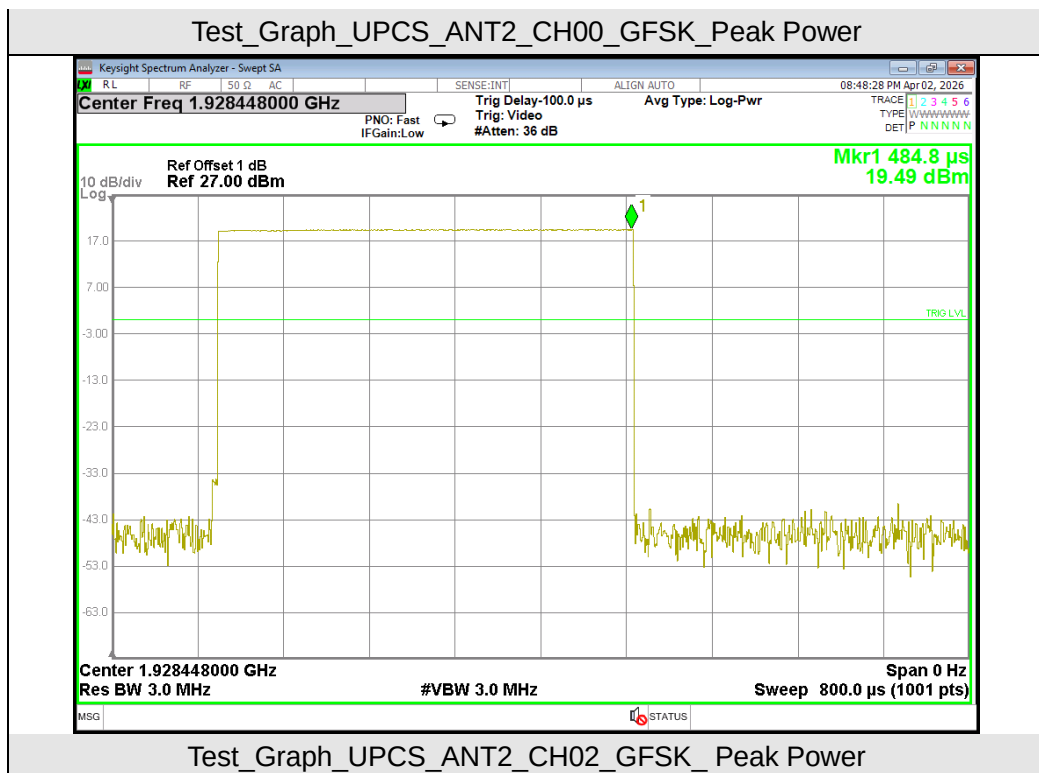
Module B
Antenna 1



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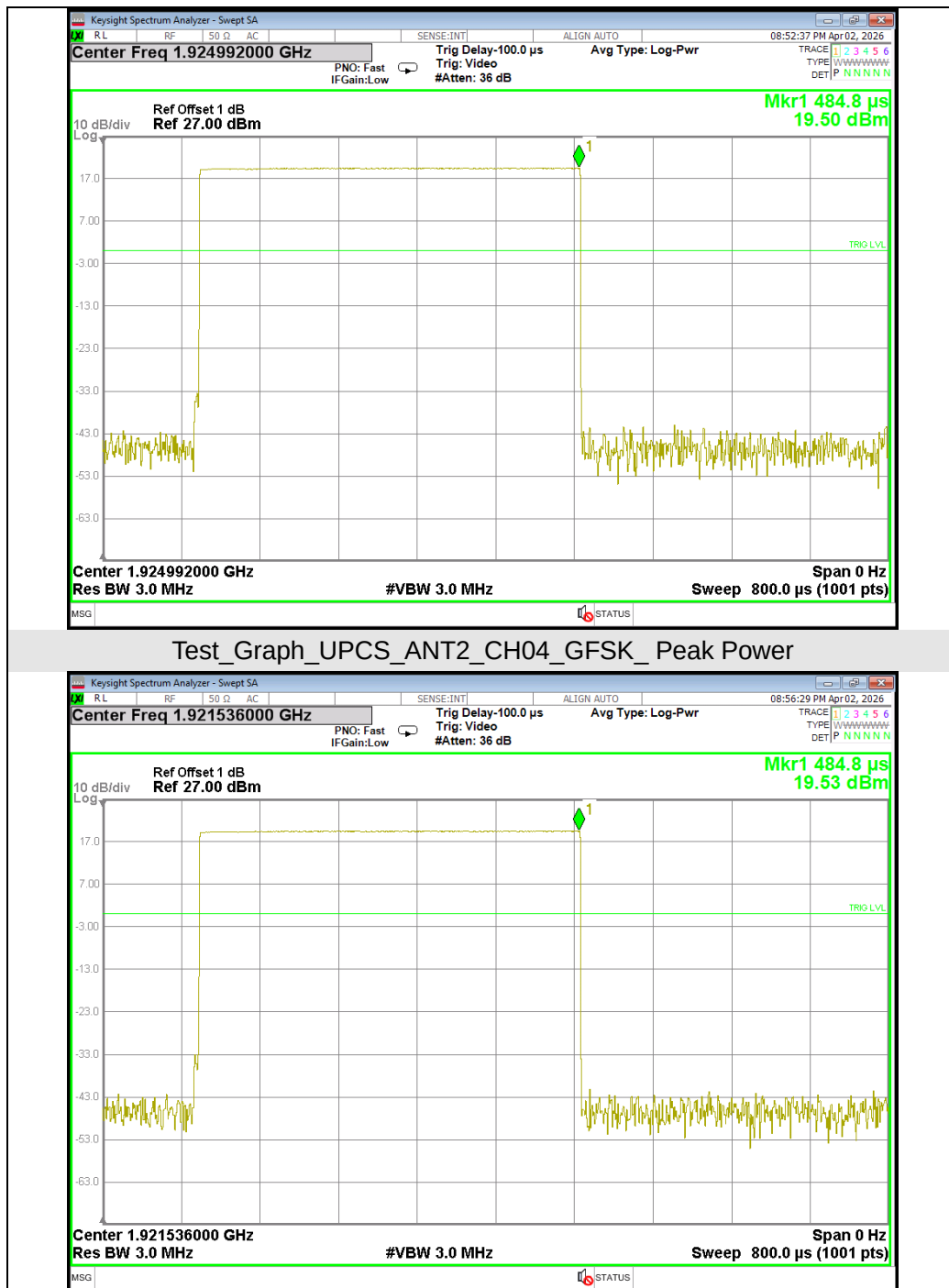


Antenna 2



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8. Power Spectral Density

8.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.319(d) for specification details:

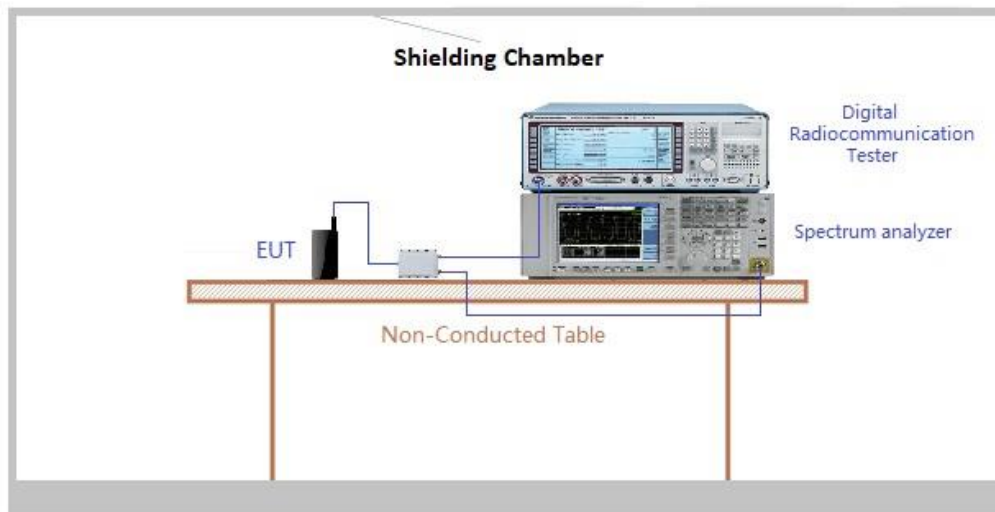
Power spectral density shall not exceed 3 milliwatts in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

8.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.5

RBW	3 kHz
Video bandwidth	$\geq 3 \times \text{RBW}$
Span	Span Zero
Center frequency	Nominal center frequency of transmit carrier
Amplitude scale	RMS
Detection	Sample detection and averaged for a minimum of 100 sweeps
Trigger Video	External or internal
Sweep Time	For burst signals, sufficient to include essentially all of the maximum length burst at the output of a 3 kHz filter (e.g., maximum input burst duration plus 600 μ s). For continuous signals, 20ms.

8.2 Measurement Setup (Block Diagram of Configuration)



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8.3 Measurement Result

Module A

- For Antenna 1

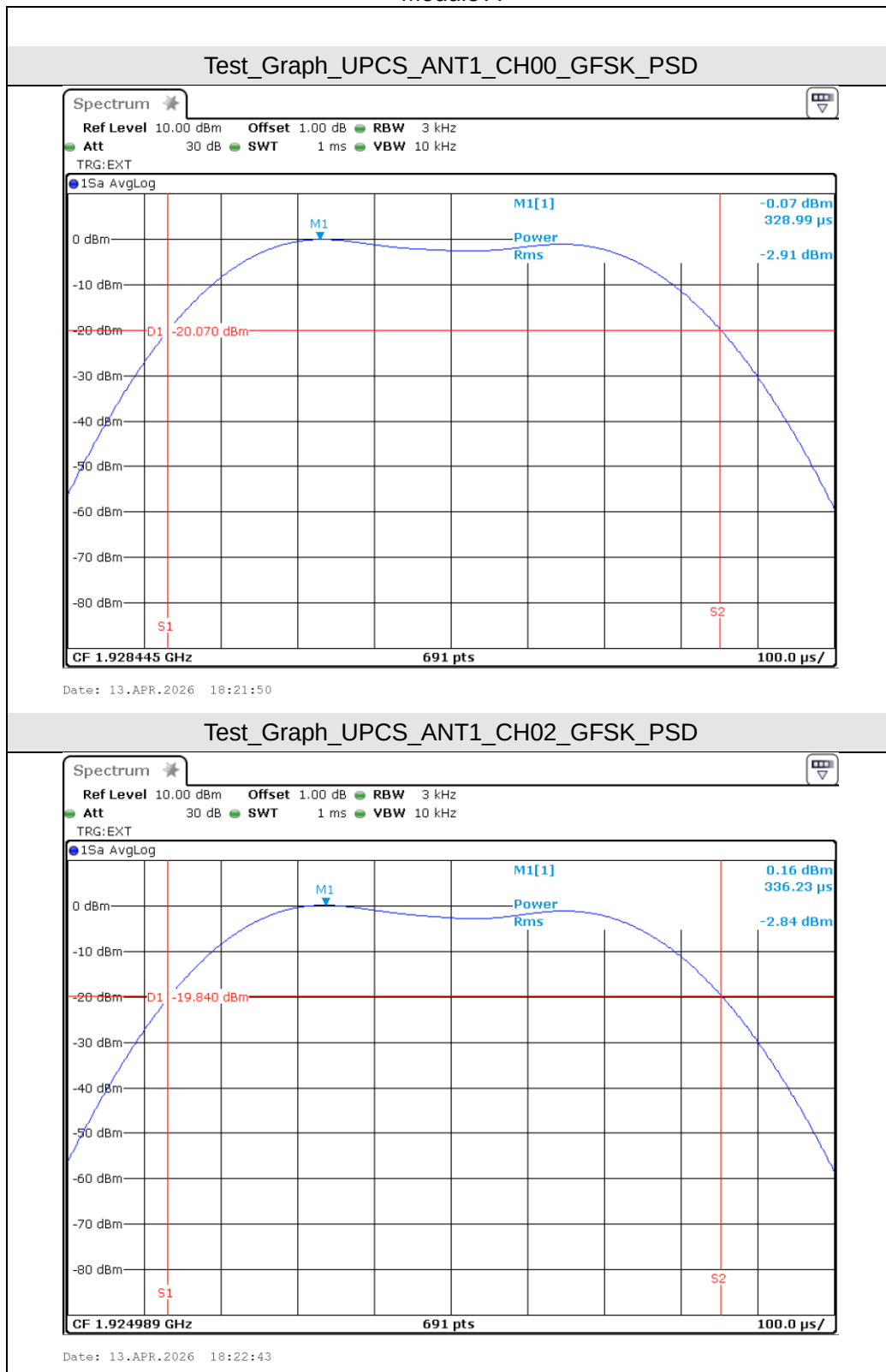
Carrier Channel	Frequency (MHz)	Measured Peak Power Spectral Density (dBm)	Limit(mw)	Limit(dBm)
Low	1921.536	-2.61	3	4.77
Mid	1924.992	-2.84		
High	1928.448	-2.91		

- For Antenna 2

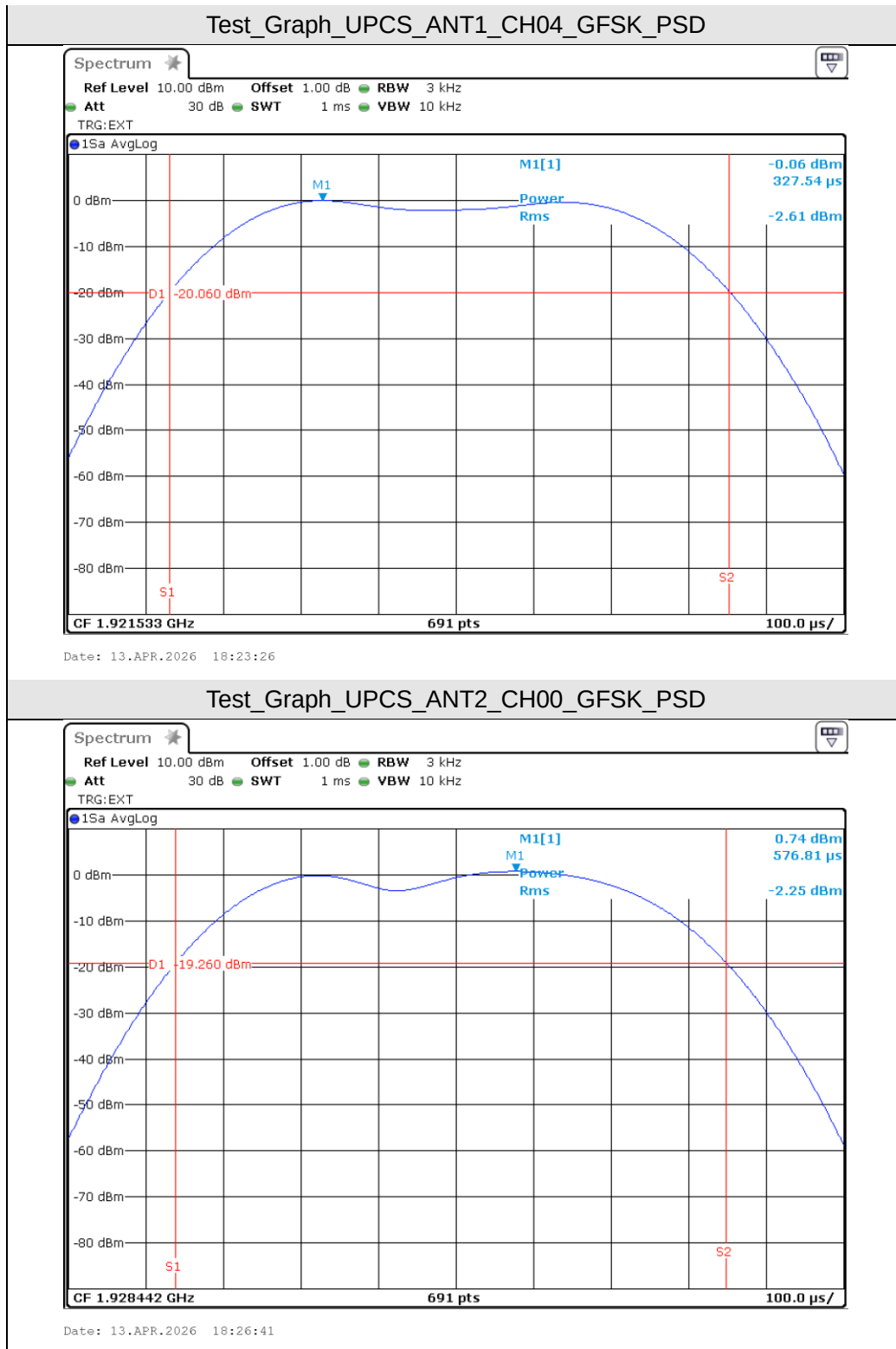
Carrier Channel	Frequency (MHz)	Measured Peak Power Spectral Density (dBm)	Limit(mw)	Limit(dBm)
Low	1921.536	-2.39	3	4.77
Mid	1924.992	-1.86		
High	1928.448	-2.25		

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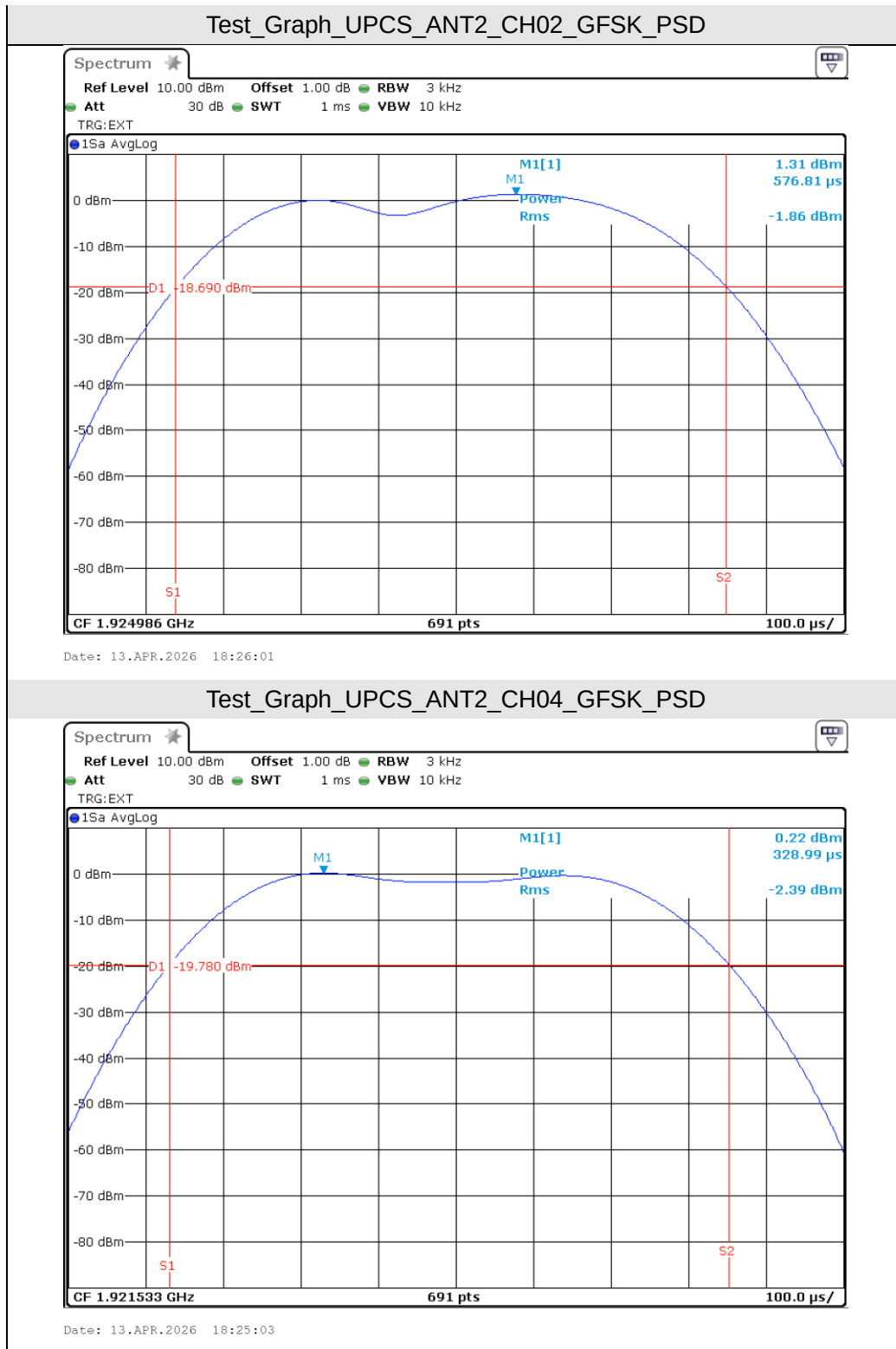
Test Graphs of Power Spectral Density Module A



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Module B

● For Antenna 1

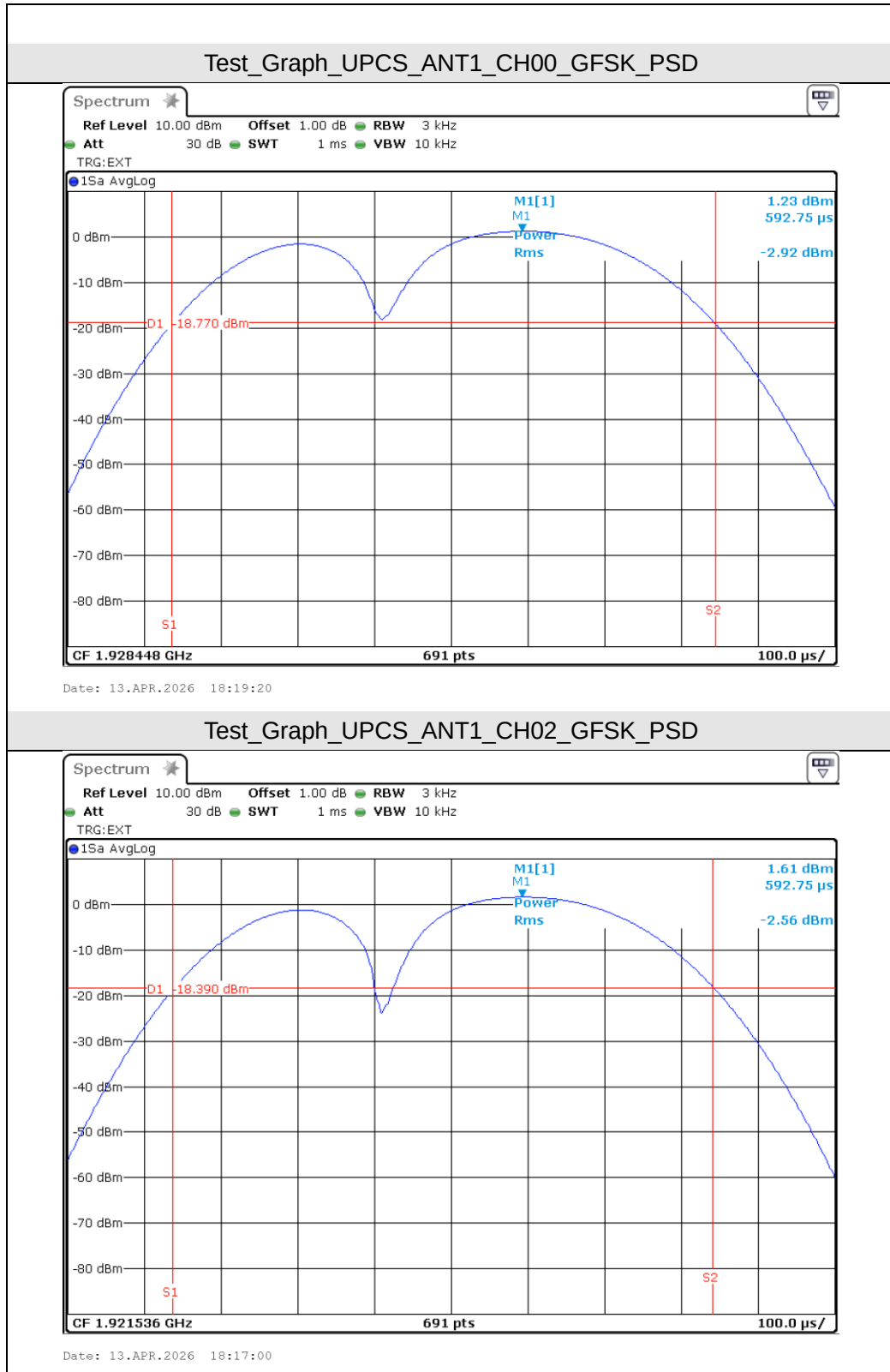
Carrier Channel	Frequency (MHz)	Measured Peak Power Spectral Density (dBm)	Limit(mw)	Limit(dBm)
Low	1921.536	-2.56	3	4.77
Mid	1924.992	-2.83		
High	1928.448	-2.92		

● For Antenna 2

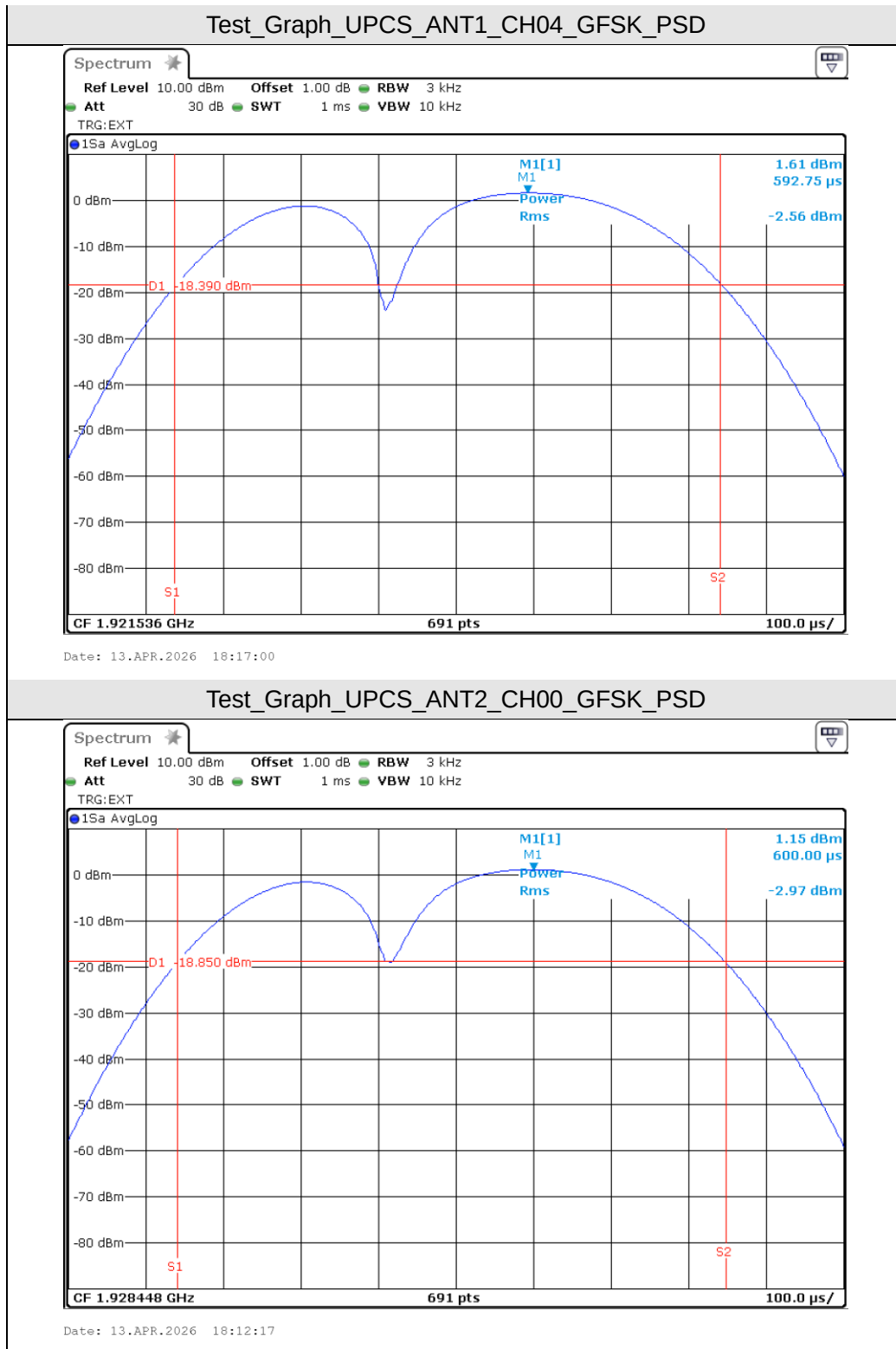
Carrier Channel	Frequency (MHz)	Measured Peak Power Spectral Density (dBm)	Limit(mw)	Limit(dBm)
Low	1921.536	-2.62	3	4.77
Mid	1924.992	-2.60		
High	1928.448	-2.97		

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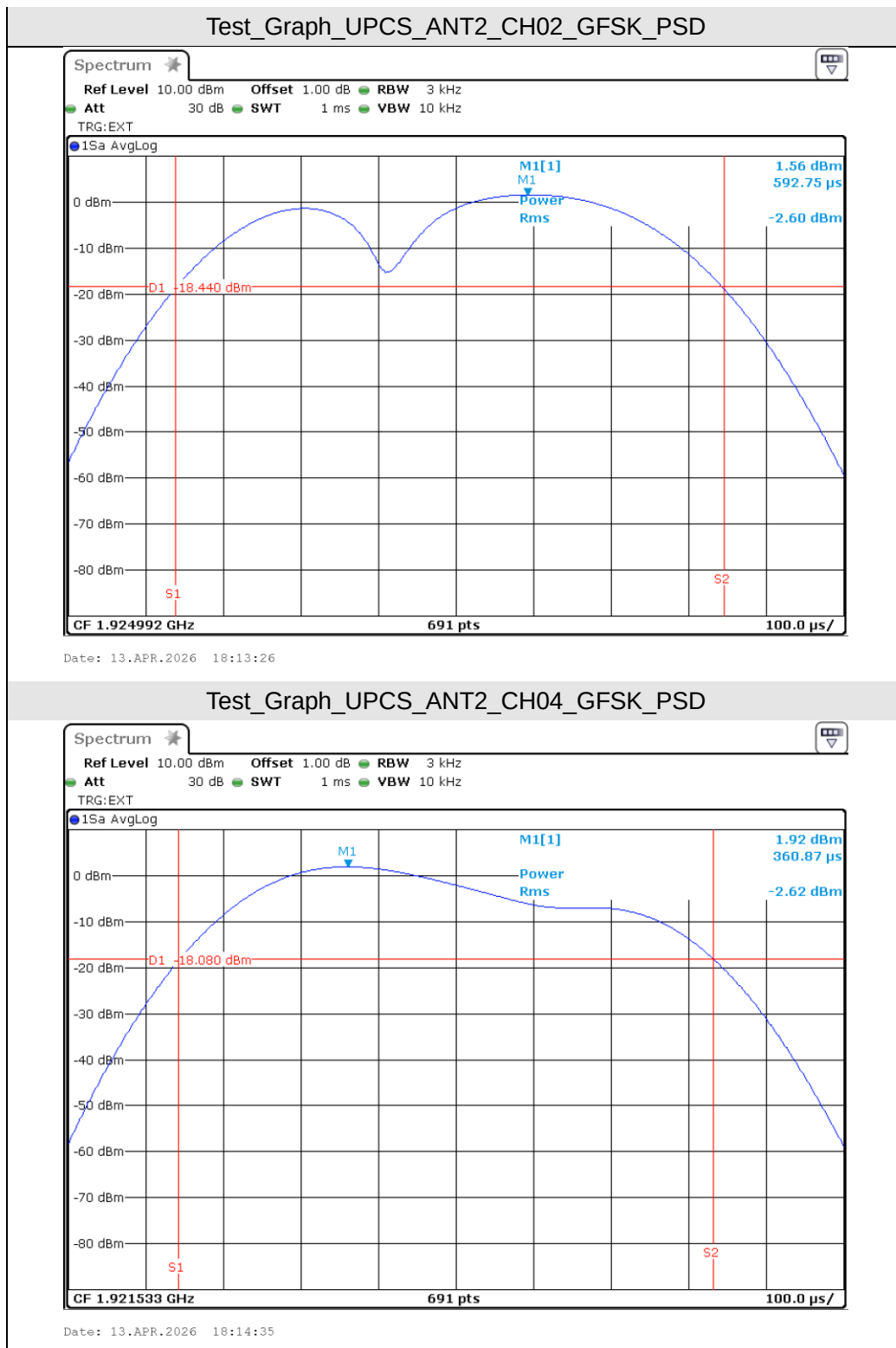
Module B



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9. In-Band Unwanted Emissions

9.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.323(d) for specification details:

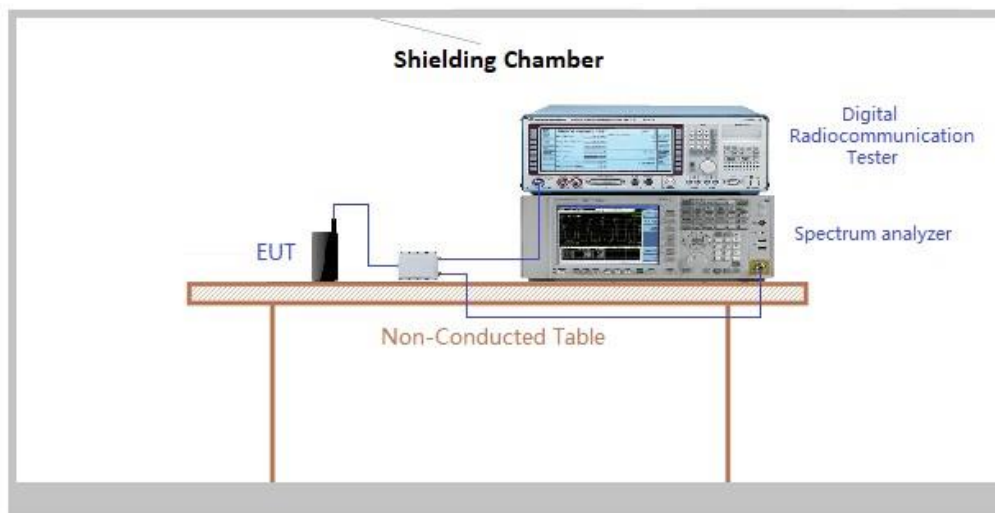
Emissions inside the band must comply with the following emission mask: In the bands between 1B and 2B measured from the center of the emission bandwidth the total power emitted by the device shall be at least 30 dB below the transmit power permitted for that device; in the bands between 2B and 3B measured from the center of the emission bandwidth the total power emitted by an intentional radiator shall be at least 50 dB below the transmit power permitted for that radiator; in the bands between 3B and the band edge the total power emitted by an intentional radiator in the measurement bandwidth shall be at least 60 dB below the transmit power permitted for that radiator. B" is defined as the emission bandwidth of the device in hertz. Compliance with the emission limits is based on the use of measurement instrumentation employing peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

9.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.6.1

RBW	Approximately 1% of the Emission bandwidth (B)
Video bandwidth	$\geq 3 \times \text{RBW}$
Span	Approximately equal to 3.5 B
Center frequency	Nominal center frequency of transmit carrier
Detection	Peak detection and max hold enabled
Amplitude scale	Log
Sweep Time	The sweep time shall be sufficiently slow that the swept frequency rate shall not exceed one RBW per three transmit bursts.
Number of sweeps	Sufficient to stabilize the trace

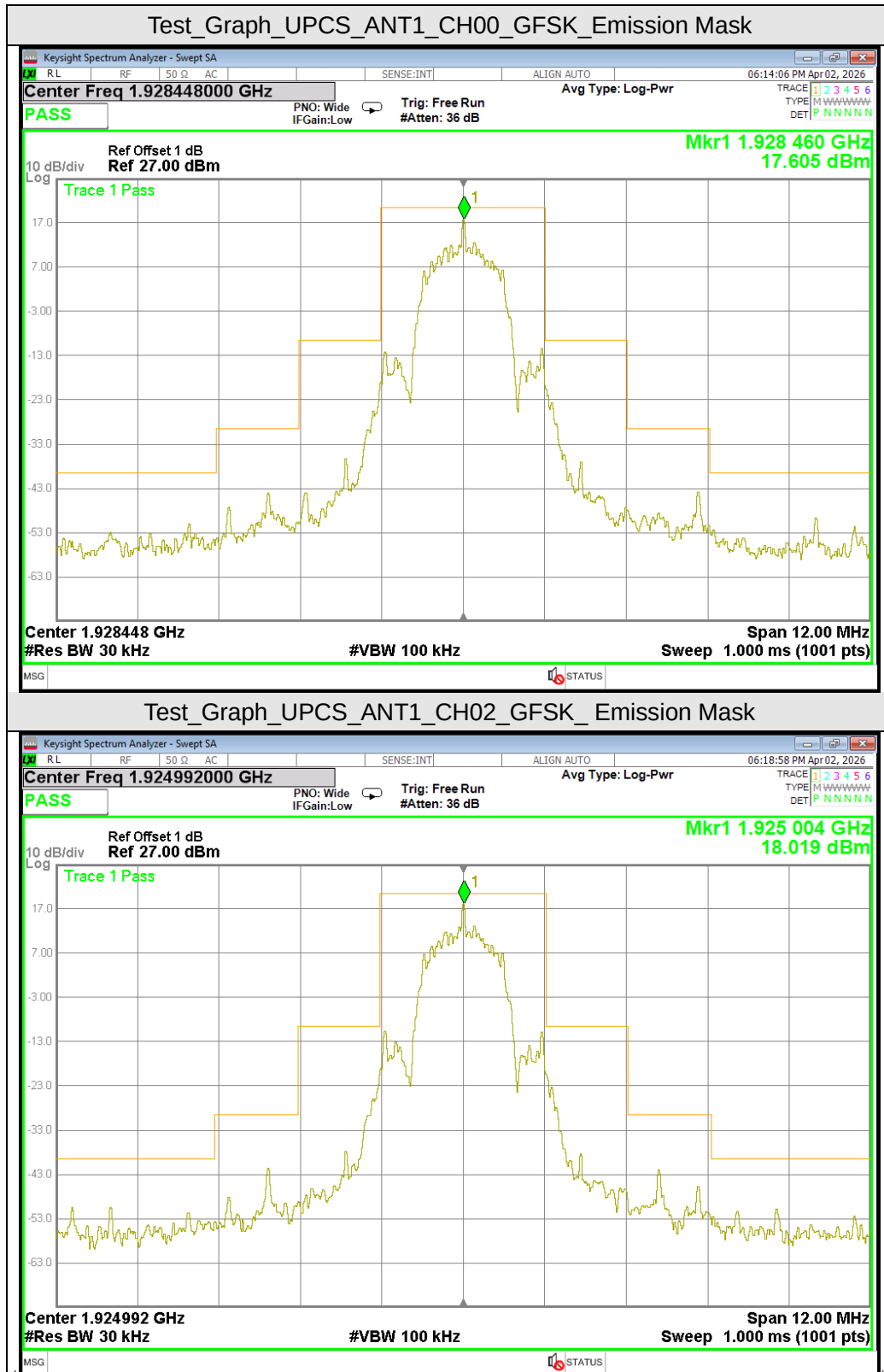
9.3 Measurement Setup (Block Diagram of Configuration)



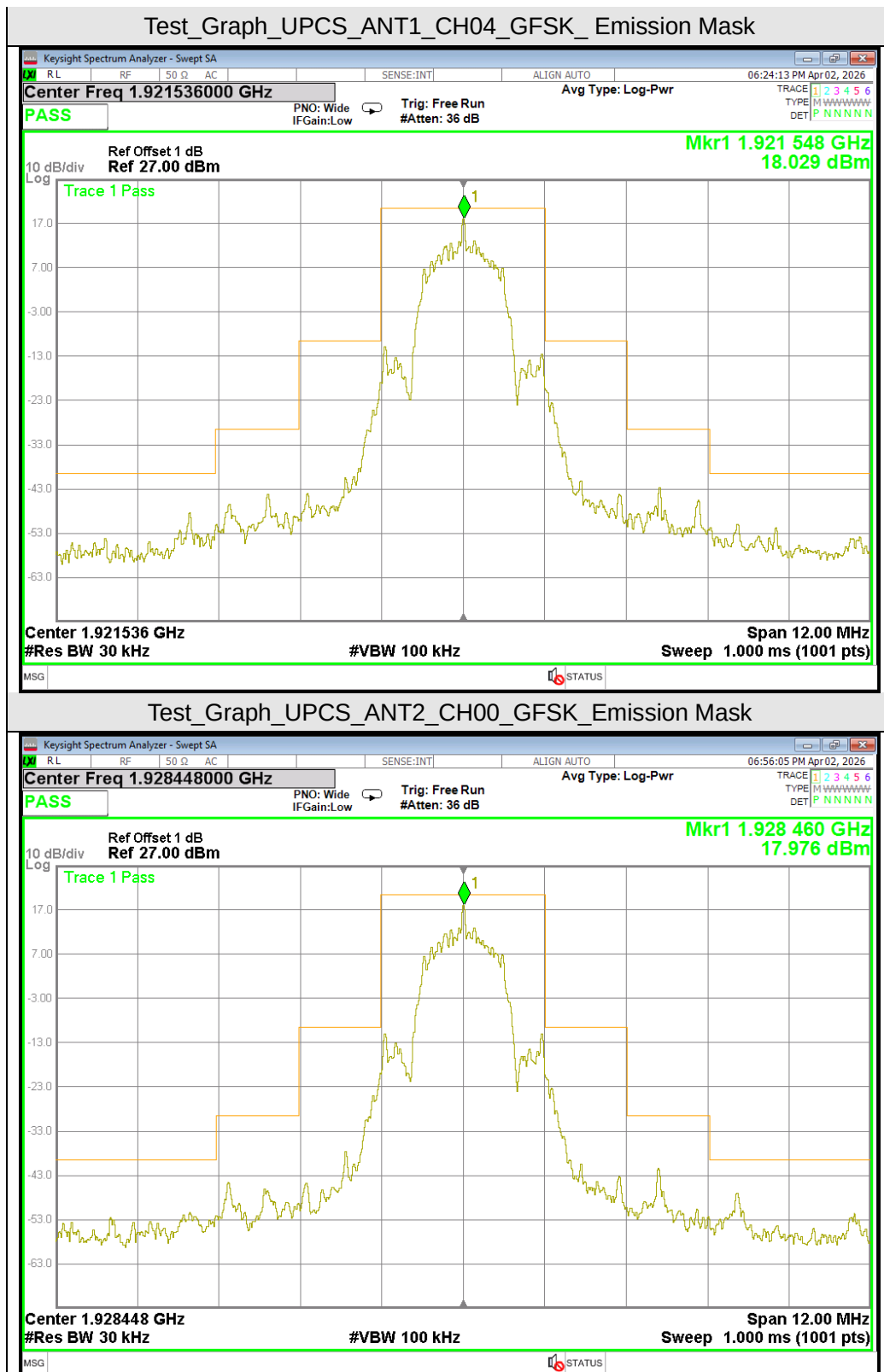
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9.4 Measurement Result

Test Graphs of In-Band Unwanted Emissions Module A

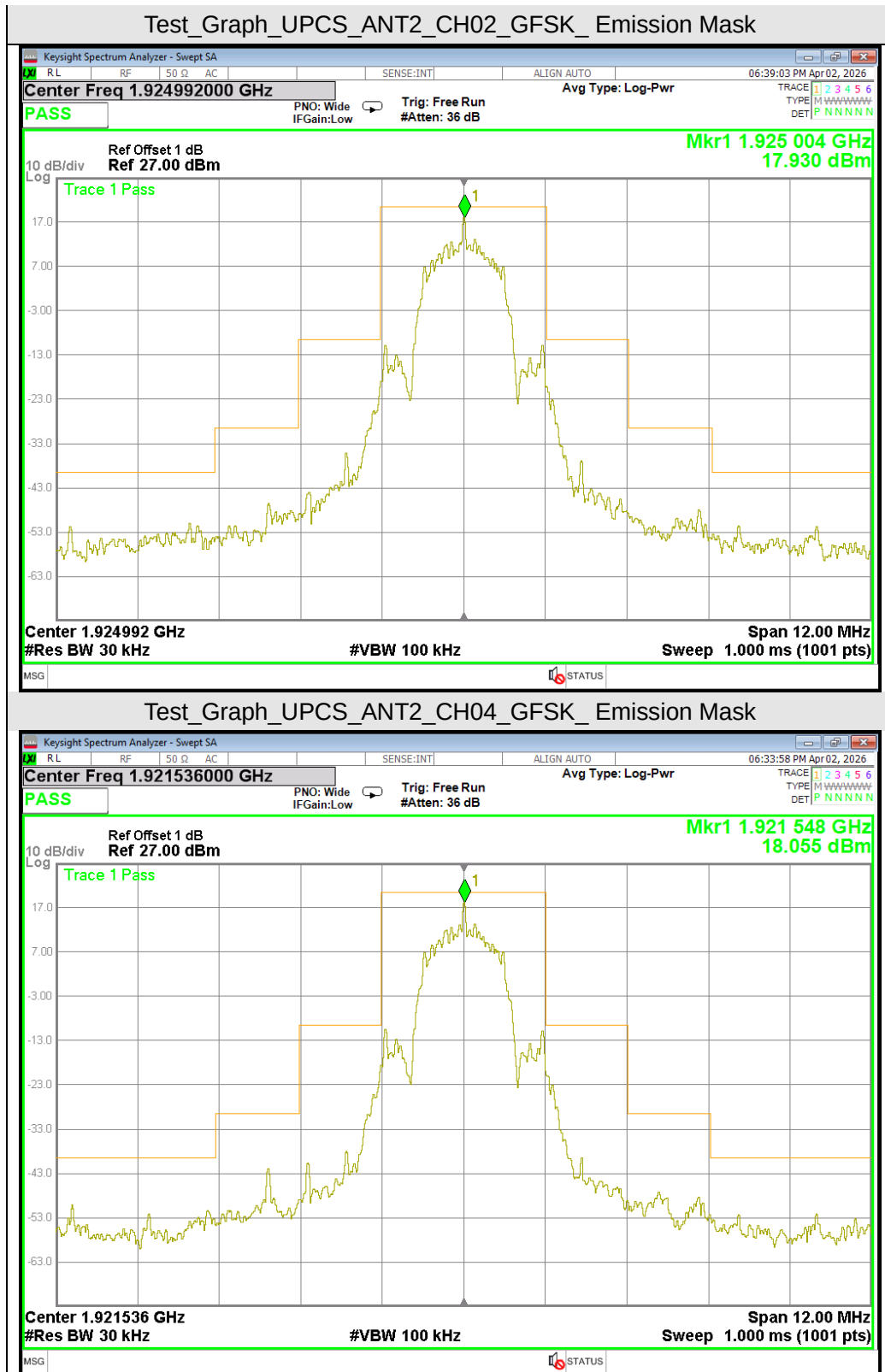


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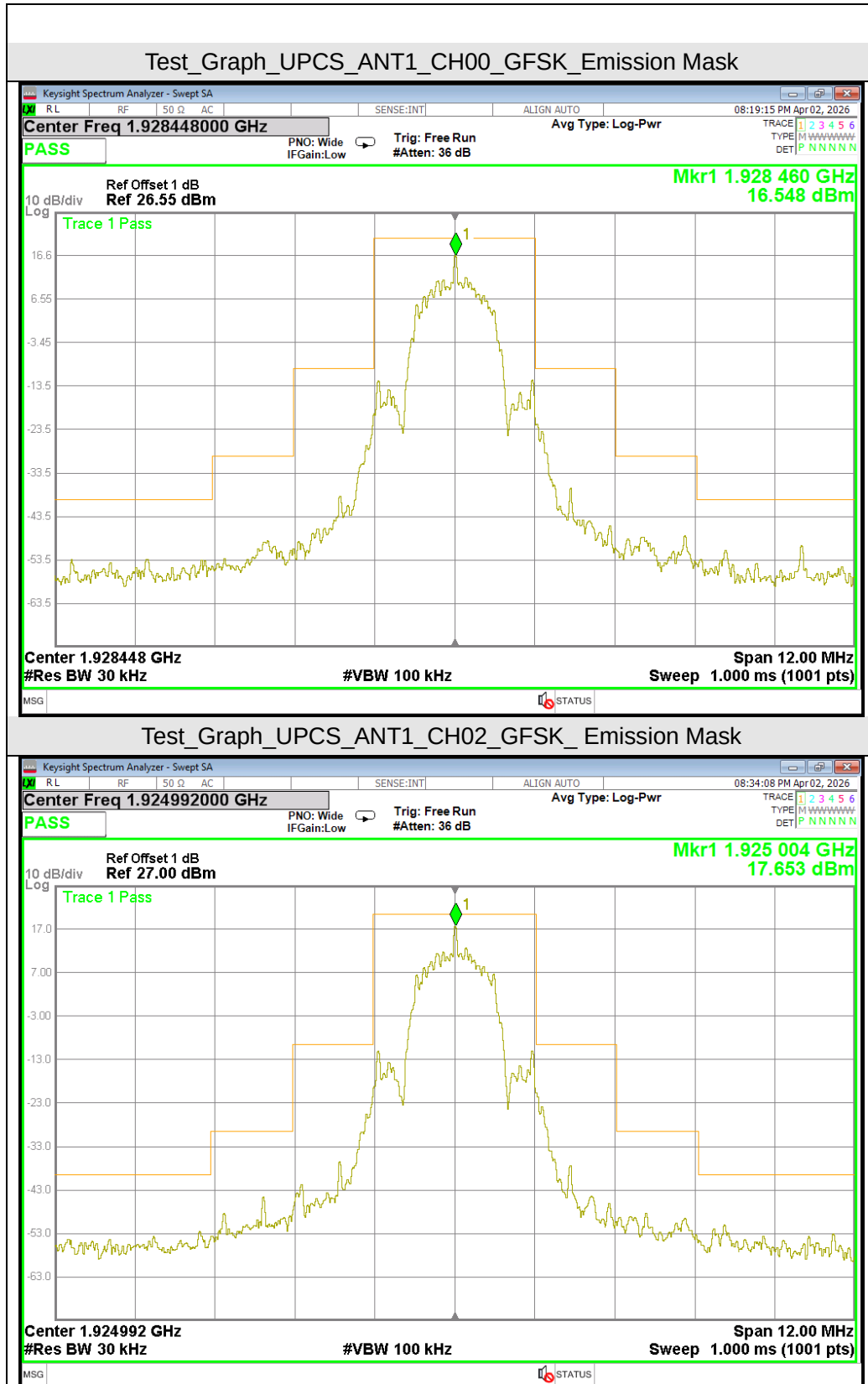
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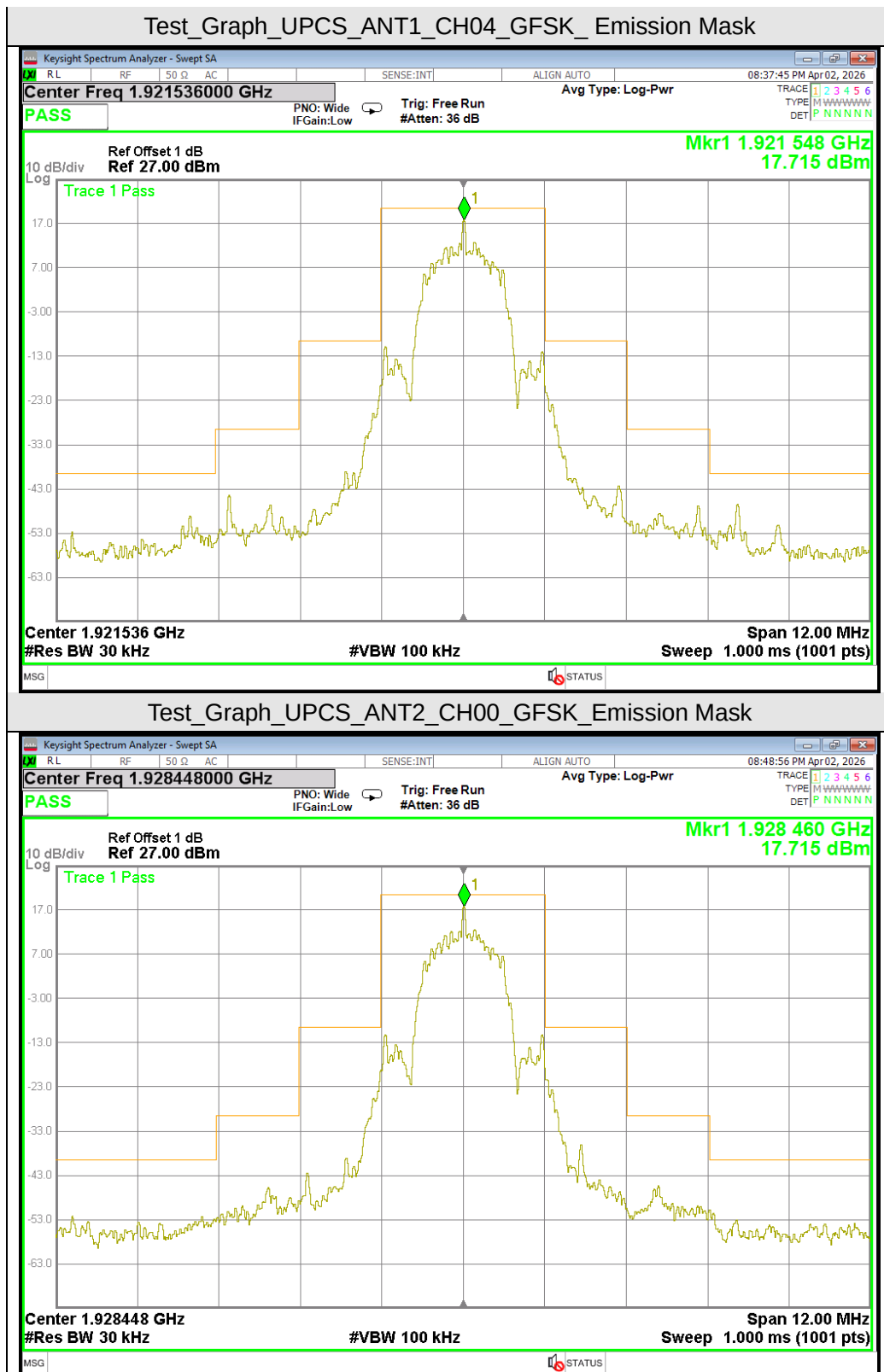


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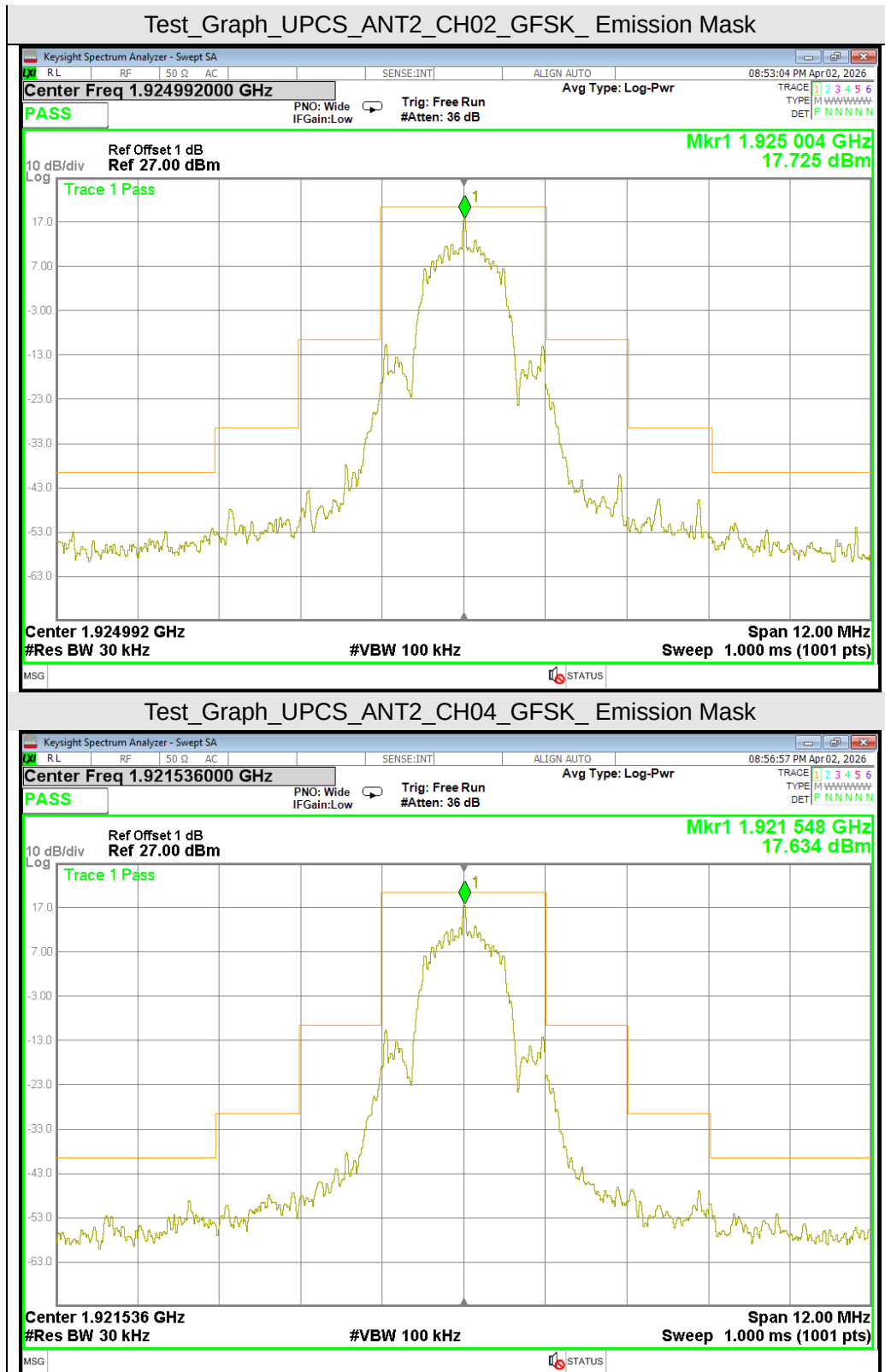
Module B



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10. Out-of-Band Unwanted Emissions

10.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.323(d) for specification details:

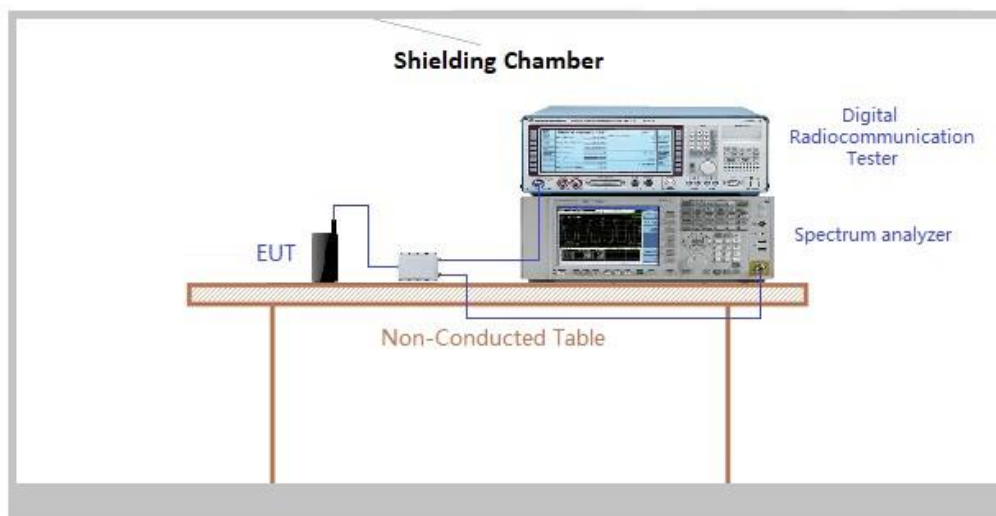
- a) In the region between the band edges and 1.25 MHz below and above the lower and the upper band edges, respectively, the measured emission level shall not exceed -9.5 dBm.
- b) In the region between 1.25 and 2.5 MHz below and above the lower and the upper band edges, respectively, the measured emission level shall not exceed -29.5 dBm.
- c) In the region at 2.5 MHz or greater below and above the lower and upper band edges, respectively, the measured emission level shall not exceed -39.5 dBm.

10.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.6.2

RBW	Approximately 1% of the Emission bandwidth (B)
Video bandwidth	$\geq 3 \times \text{RBW}$
Span	Approximately equal to 3.5 B
Center frequency	Nominal center frequency of transmit carrier
Detection	Peak detection and max hold enabled
Amplitude scale	Log
Sweep Time	The sweep time shall be sufficiently slow that the swept frequency rate shall not exceed one RBW per three transmit bursts.
Number of sweeps	Sufficient to stabilize the trace

10.3 Measurement Setup (Block Diagram of Configuration)



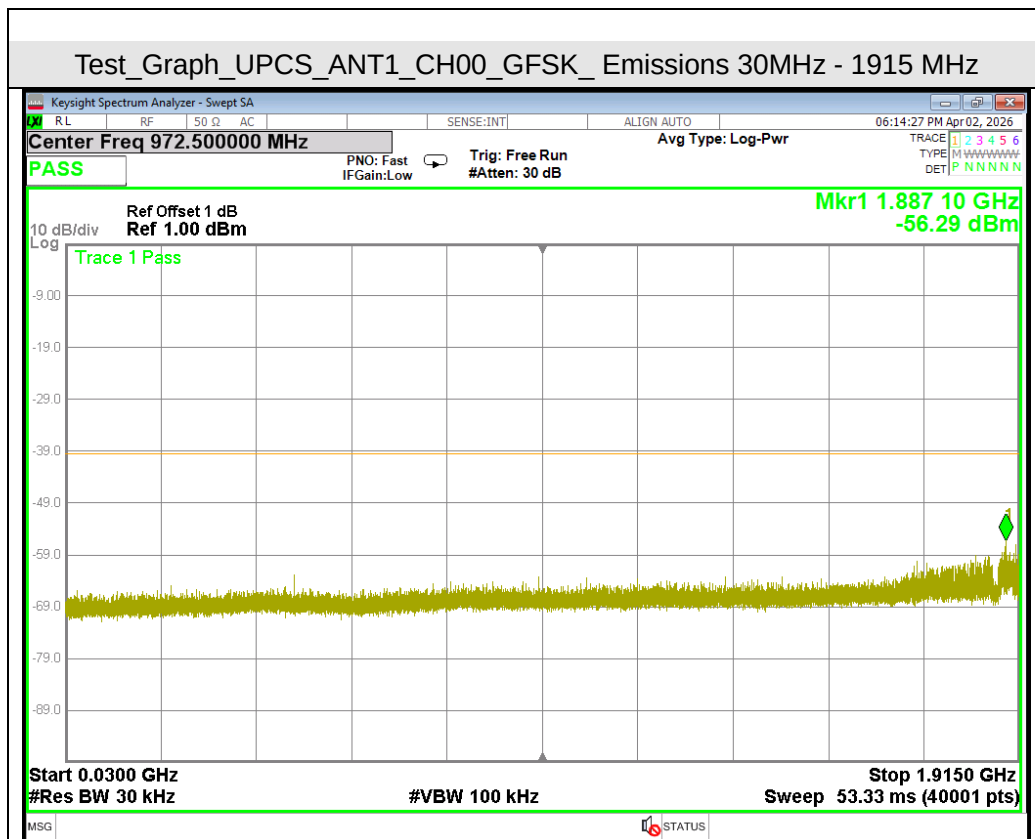
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10.4 Measurement Result

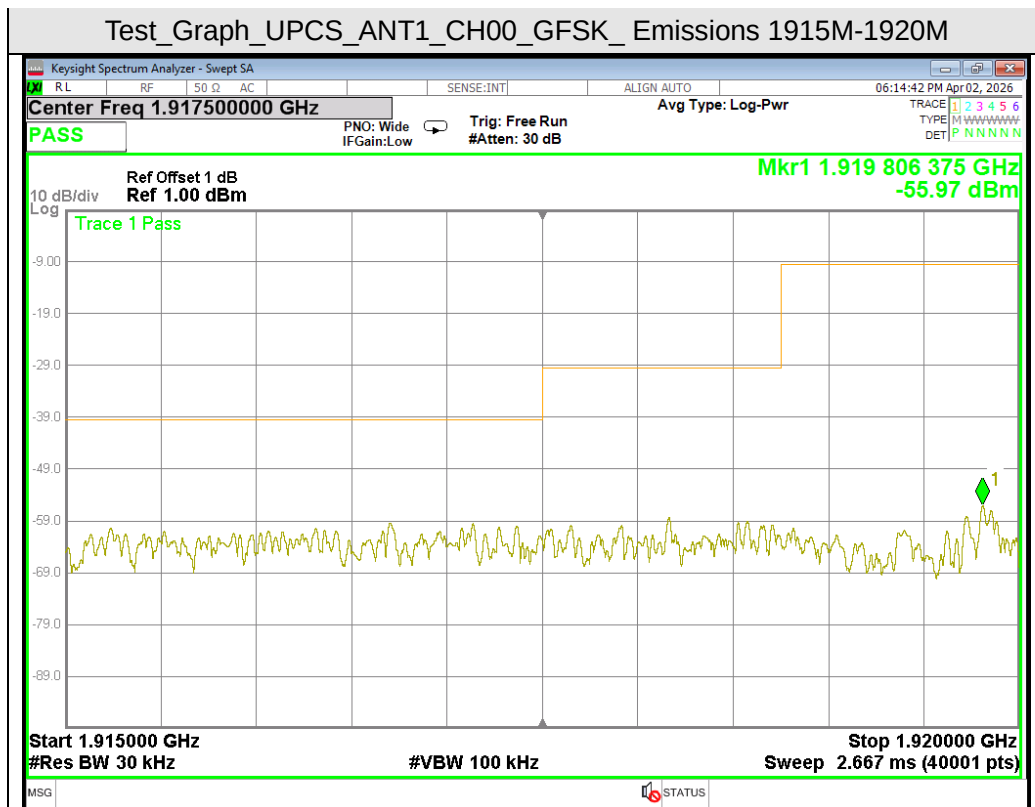
Test Graphs of Out-of-Band Unwanted Emissions Module A

Test Channel	Frequency (MHz)	Range (MHz)	Reading Frequency (MHz)	Reading Level (dBm)	Additional offset (dB)	Result (dBm)	Limits (dBm)	Result
0	1928.448	1935-20000	19993.2	-53.61	4.26	-49.35	-39.5	PASS
2	1924.992	1935-20000	3850.8	-53.29	4.26	-49.03	-39.5	PASS
4	1921.536	1935-20000	16644.4	-53.94	4.26	-49.68	-39.5	PASS

Note: The 1dB offset is the maximum deviation within the main frequency band. The maximum deviation within the range of 1935 MHz to 20 GHz is 5.26 dB. The additional offset has been calculated to compensate for this difference. The test results below 1935 MHz can be viewed in the test graph.

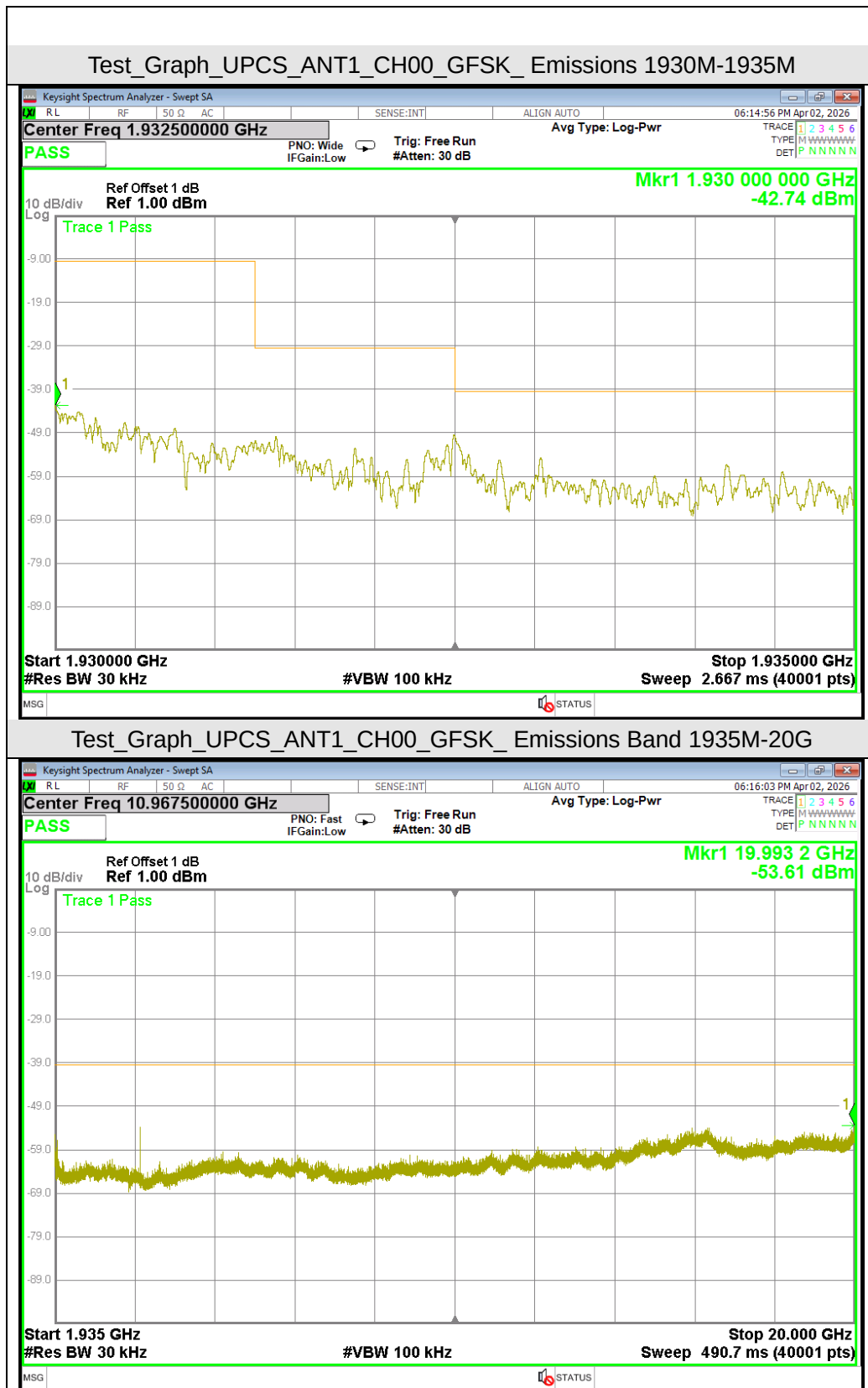


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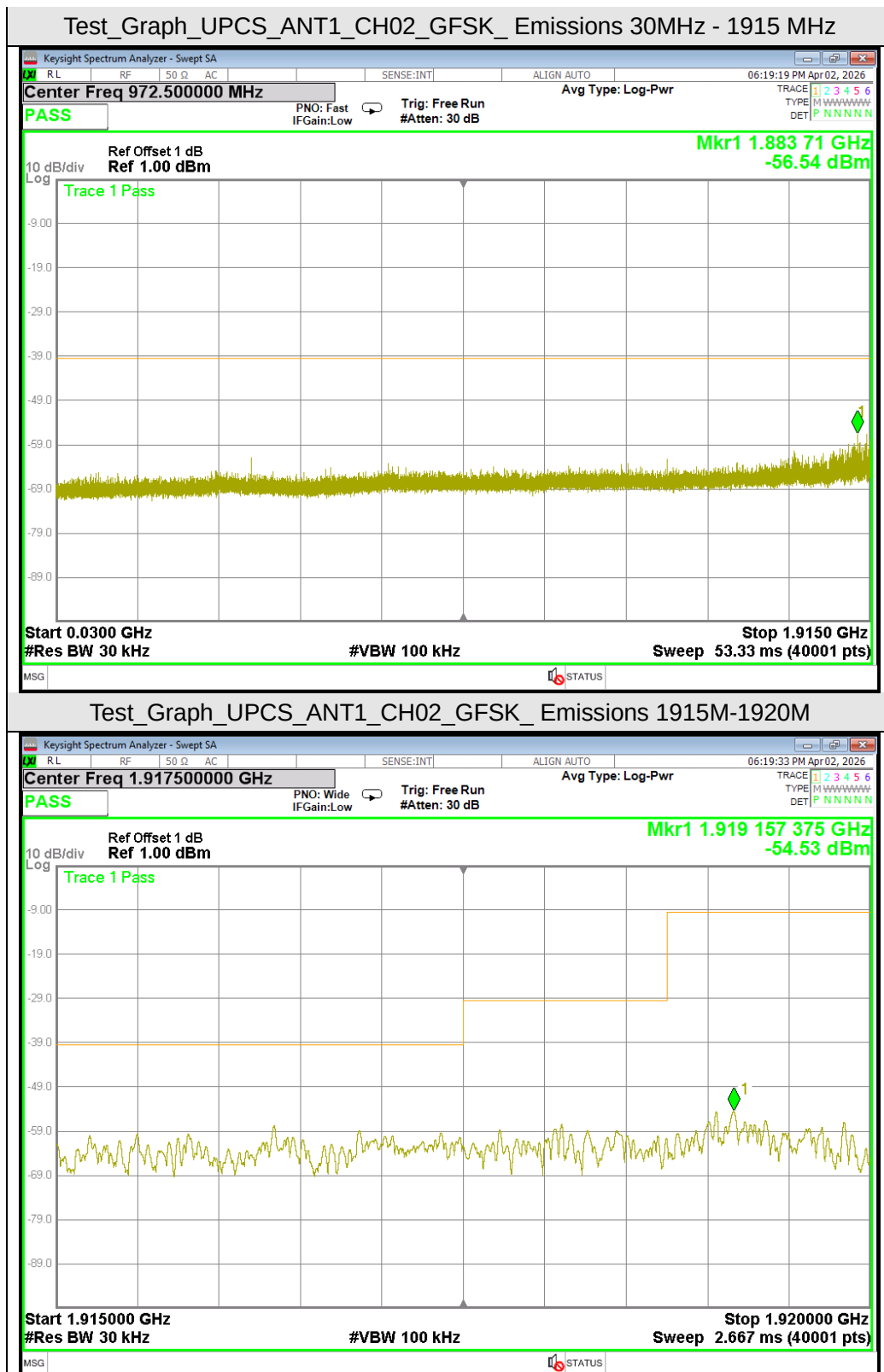


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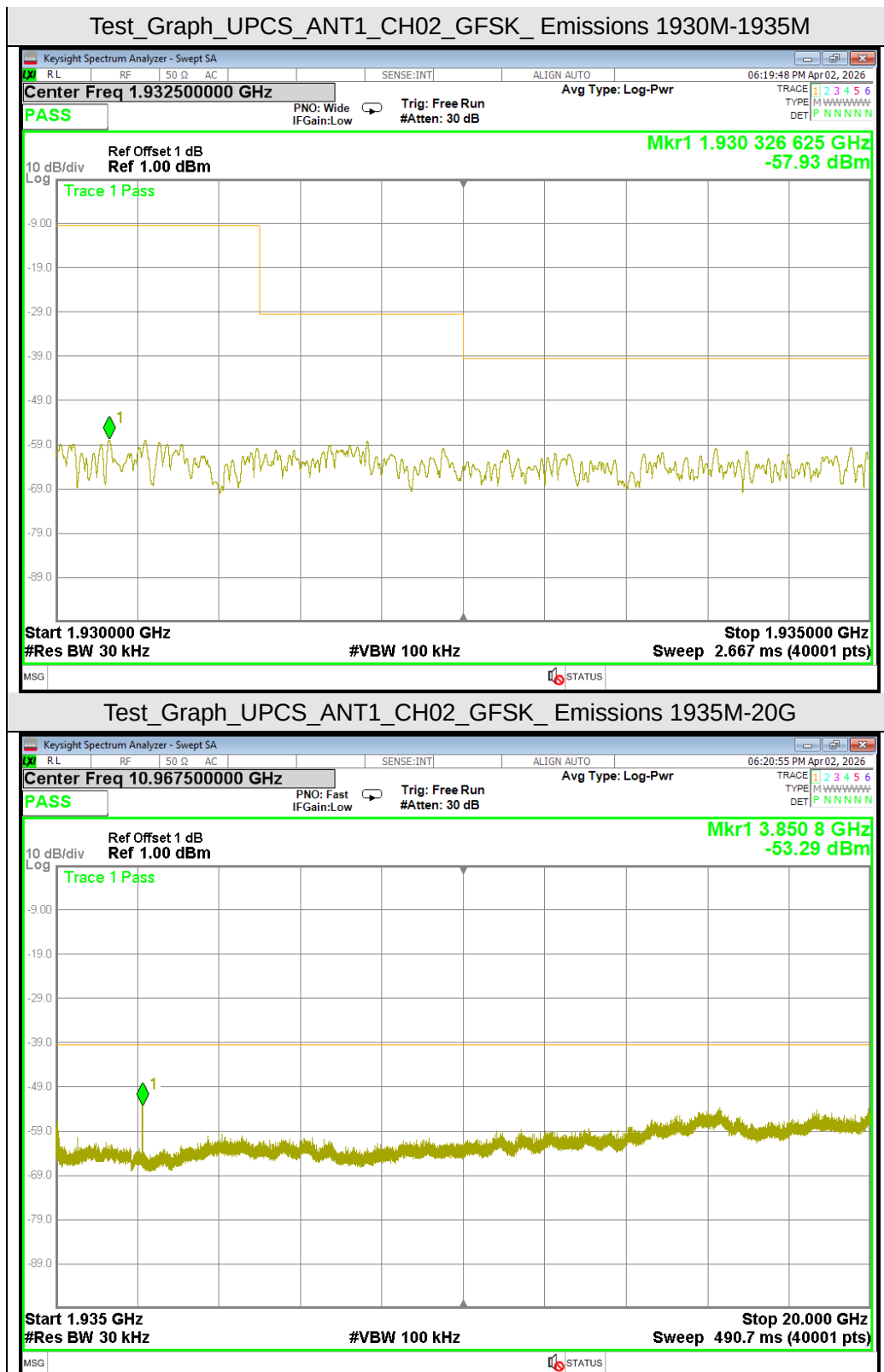
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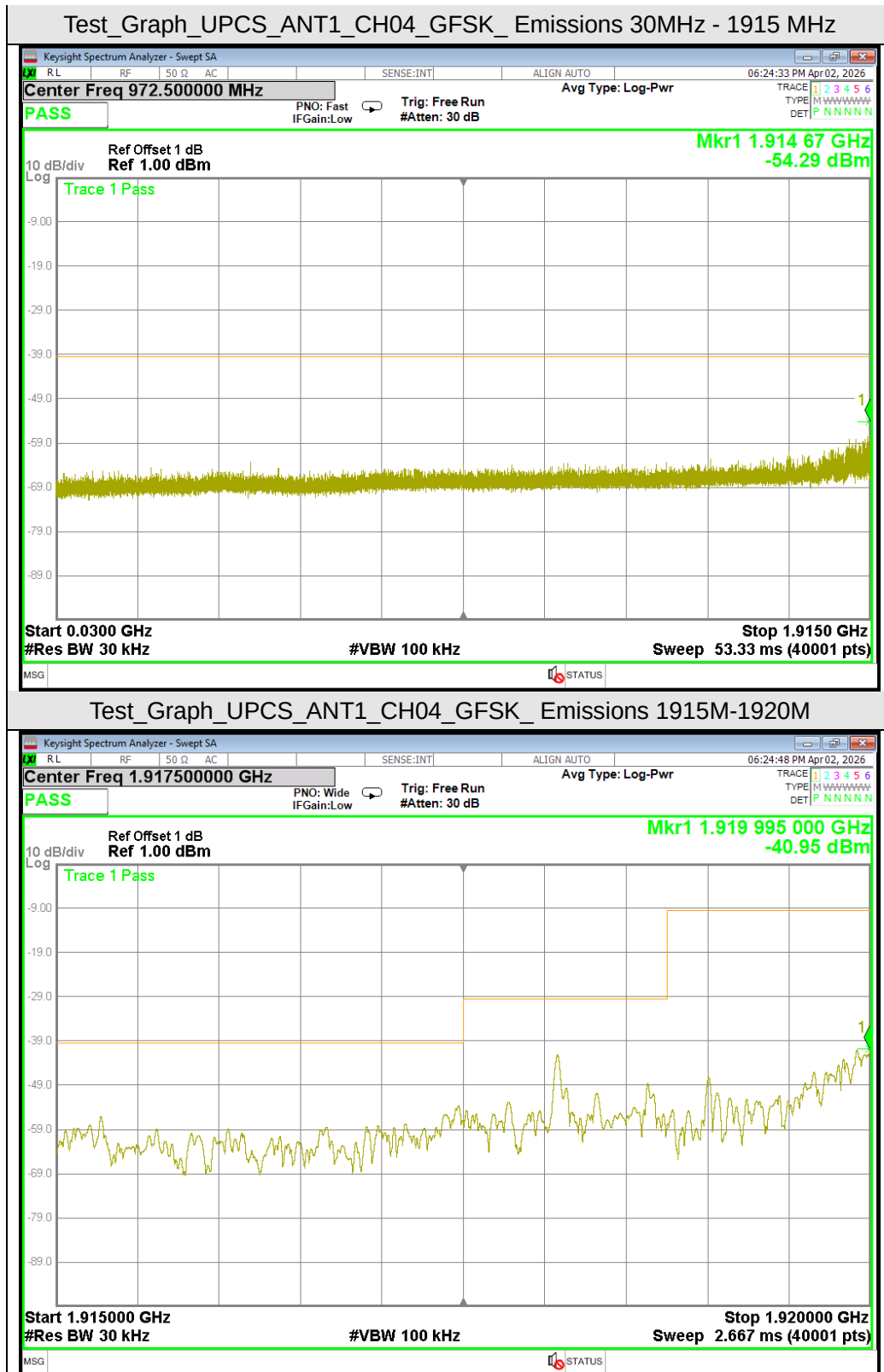
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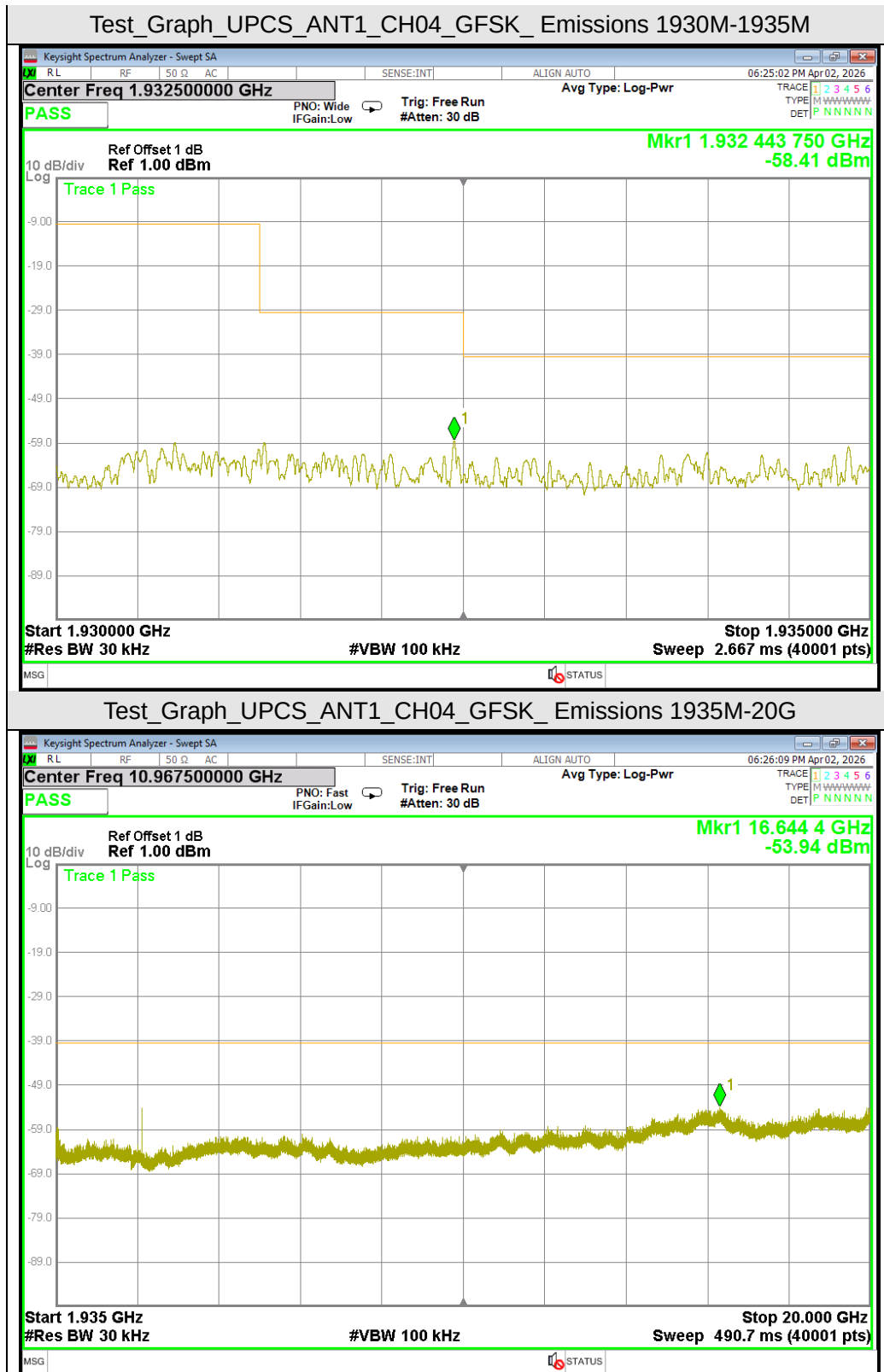
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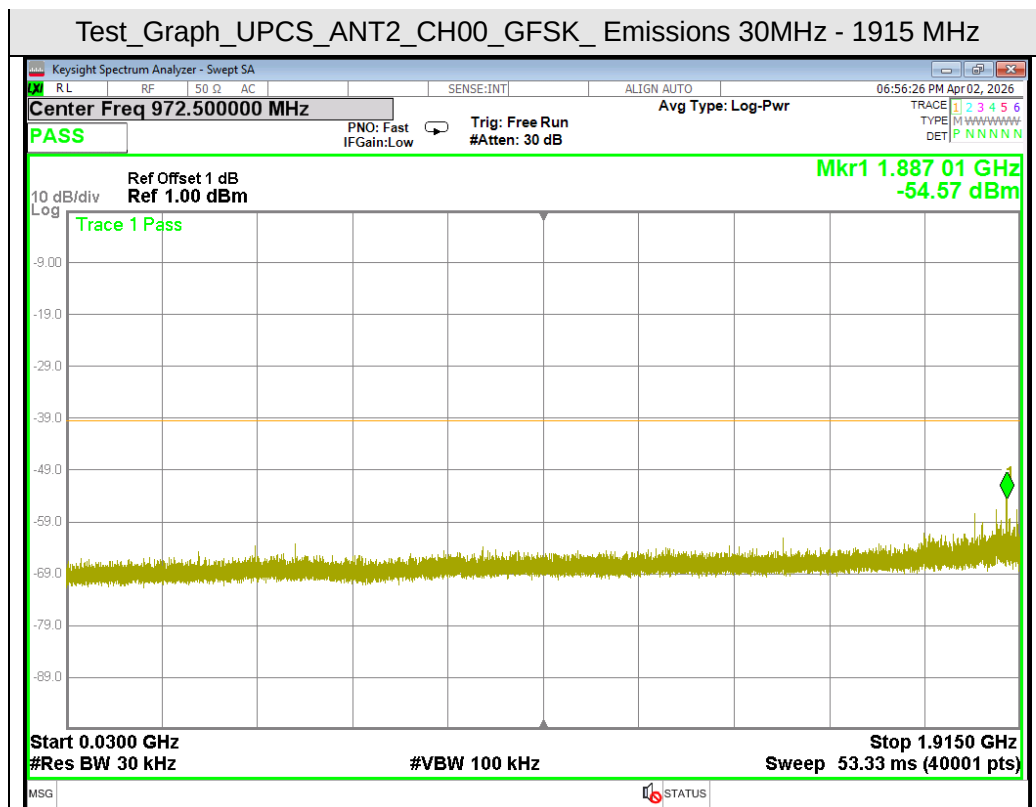
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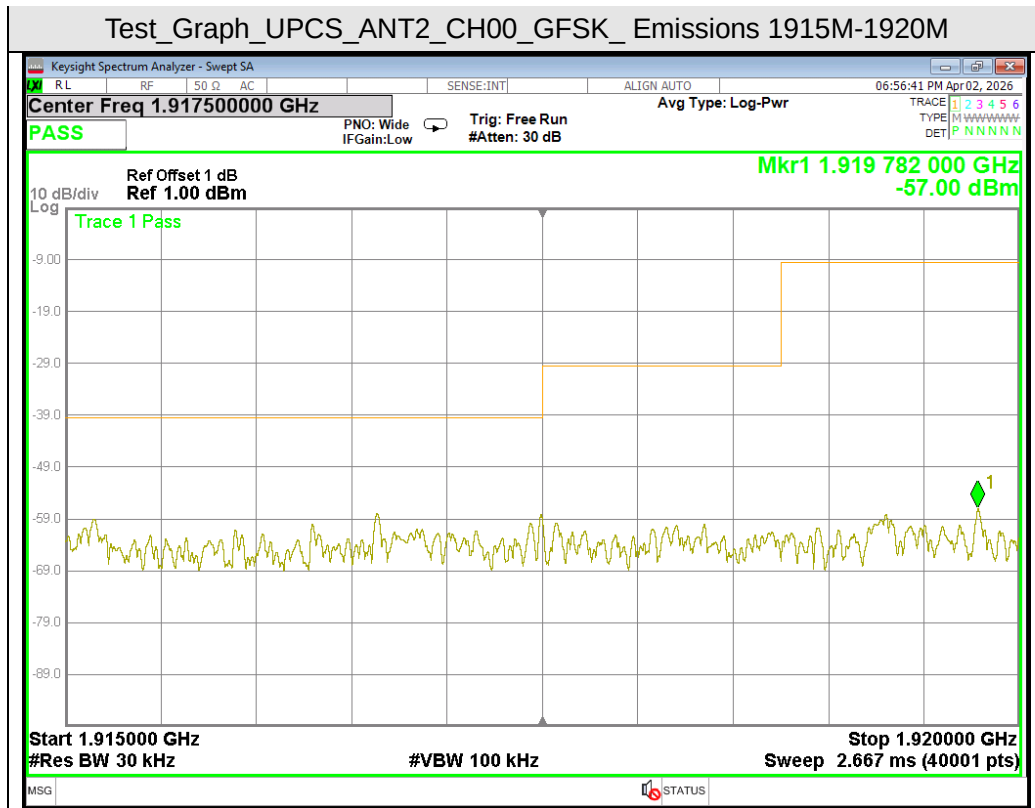
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Test Channel	Frequency (MHz)	Range (MHz)	Reading Frequency (MHz)	Reading Level (dBm)	Additional offset (dB)	Result (dBm)	Limits (dBm)	Result
0	1928.448	1935-20000	16596.6	-53.61	4.26	-49.35	-39.5	PASS
2	1924.992	1935-20000	16537.8	-54.01	4.26	-49.75	-39.5	PASS
4	1921.536	1935-20000	3842.7	-53.41	4.26	-49.15	-39.5	PASS

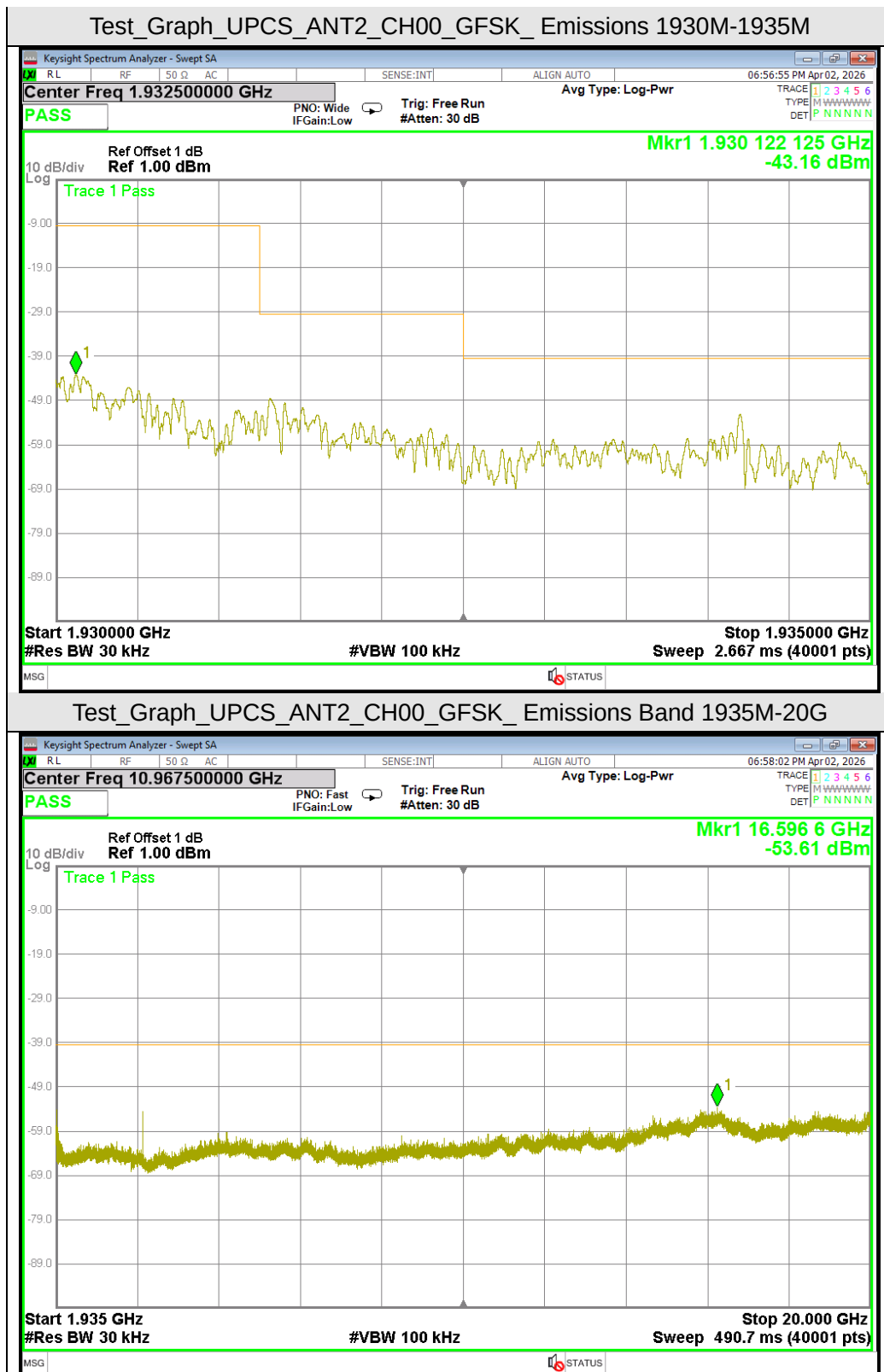
Note: The 1dB offset is the maximum deviation within the main frequency band. The maximum deviation within the range of 1935 MHz to 20 GHz is 5.26 dB. The additional offset has been calculated to compensate for this difference. The test results below 1935 MHz can be viewed in the test graph.



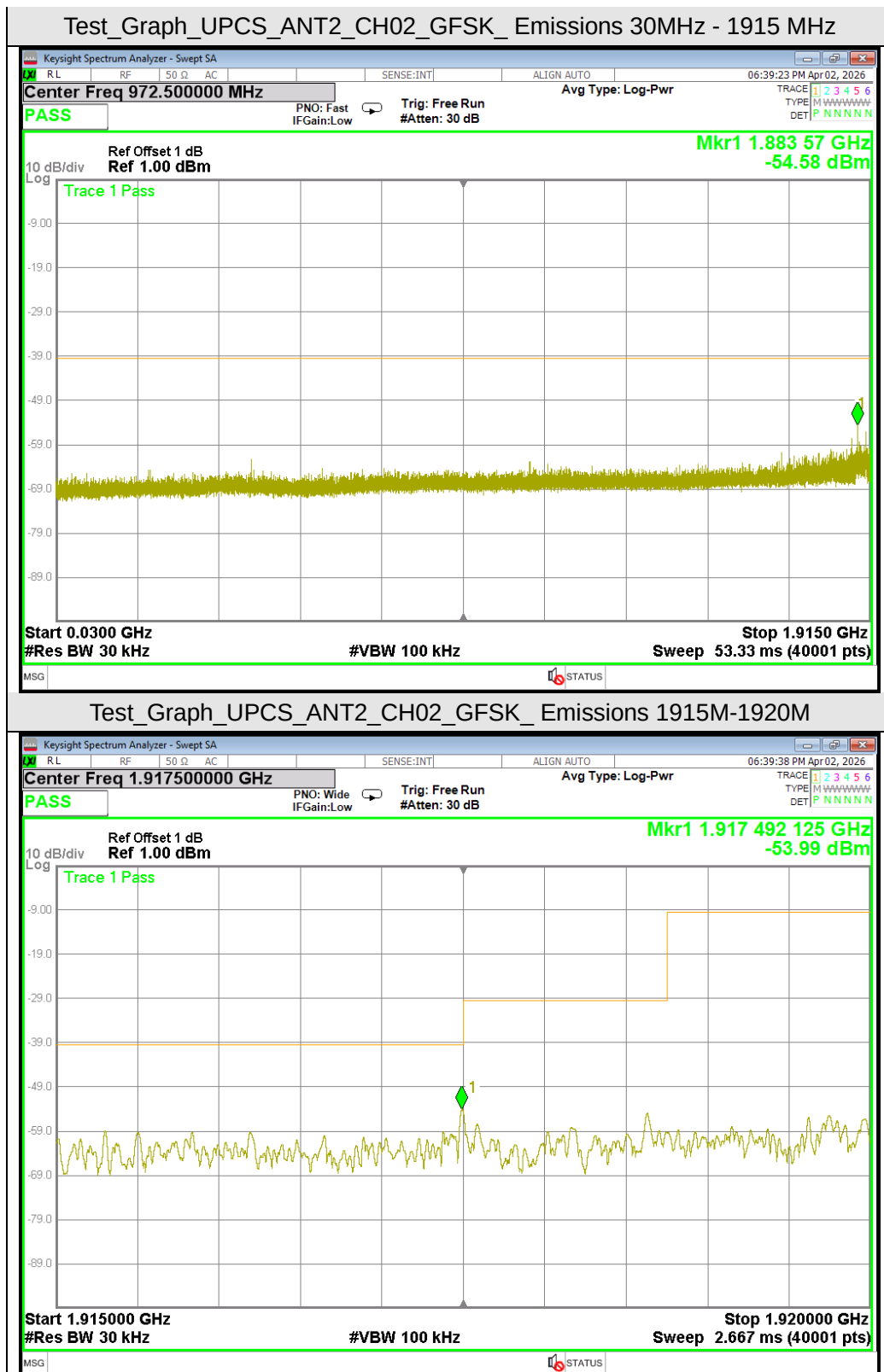
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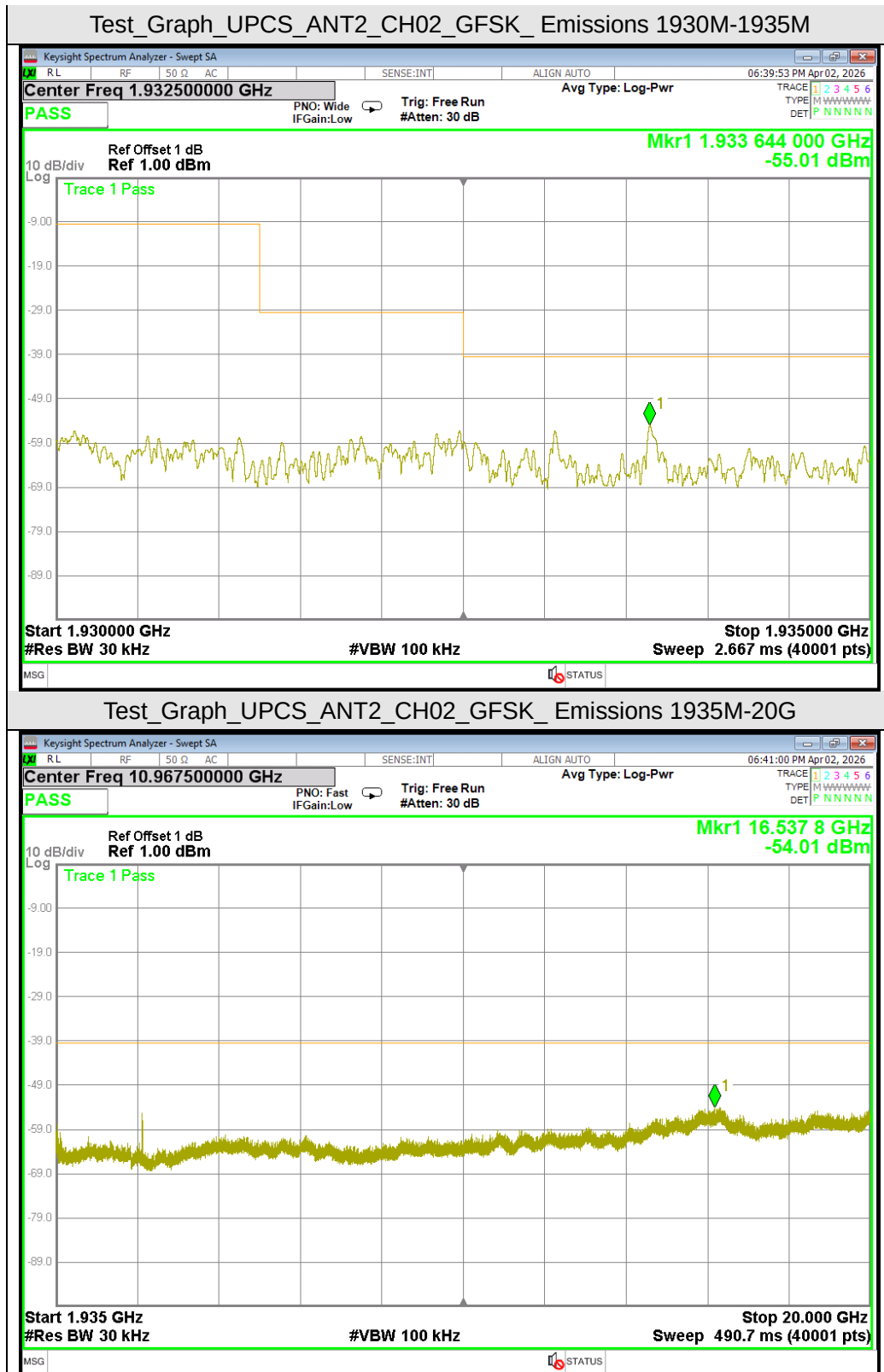
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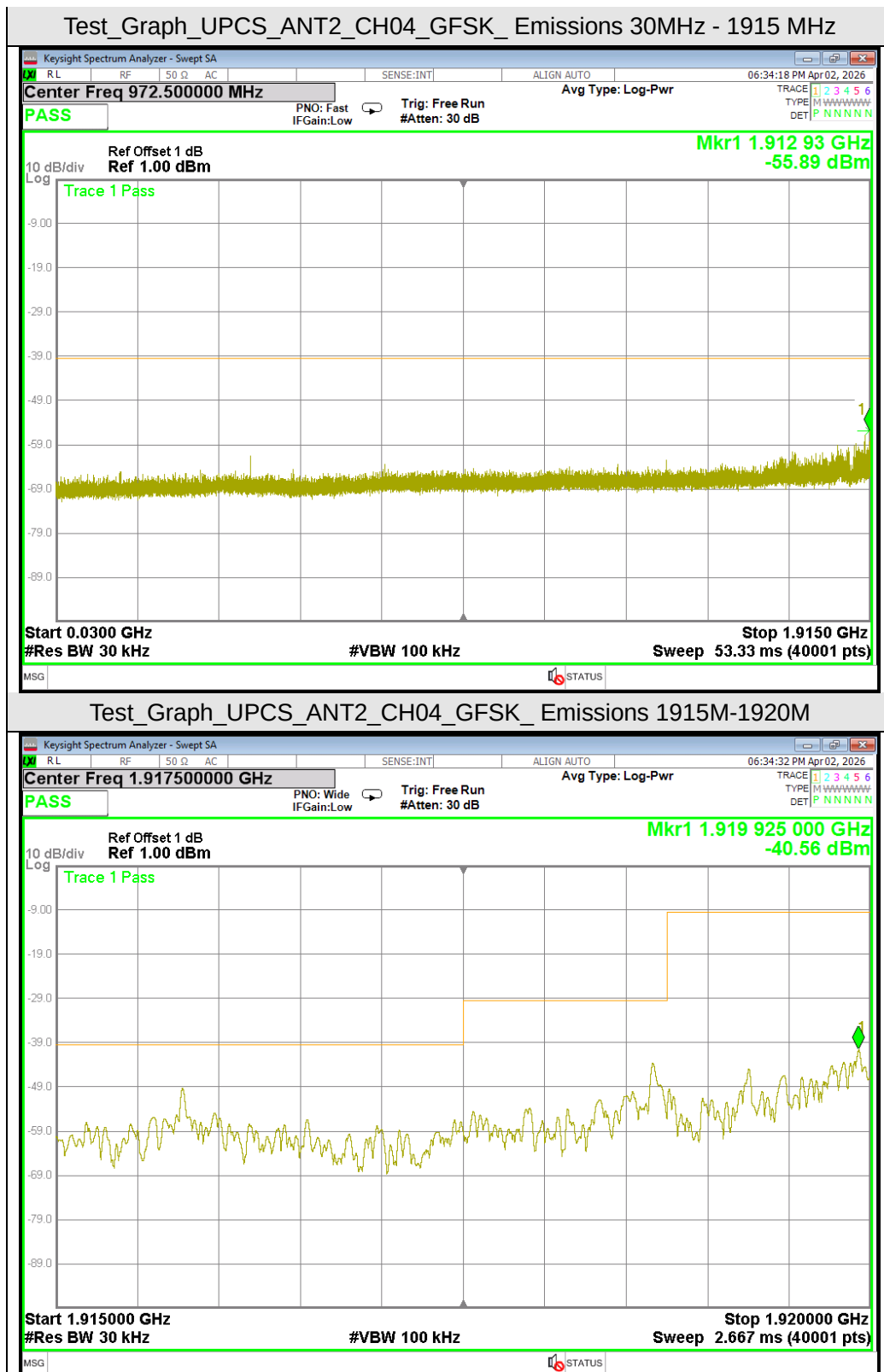
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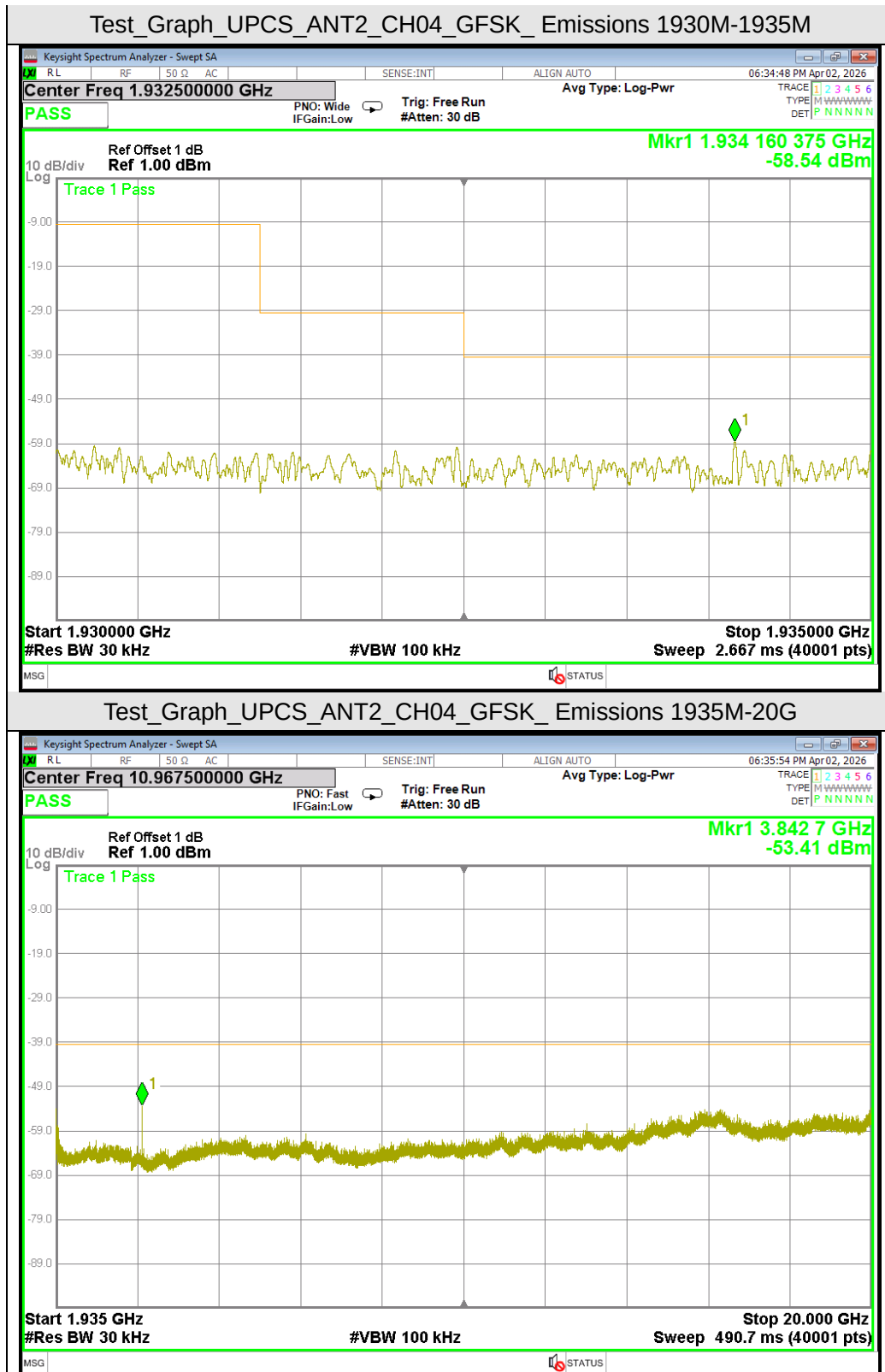
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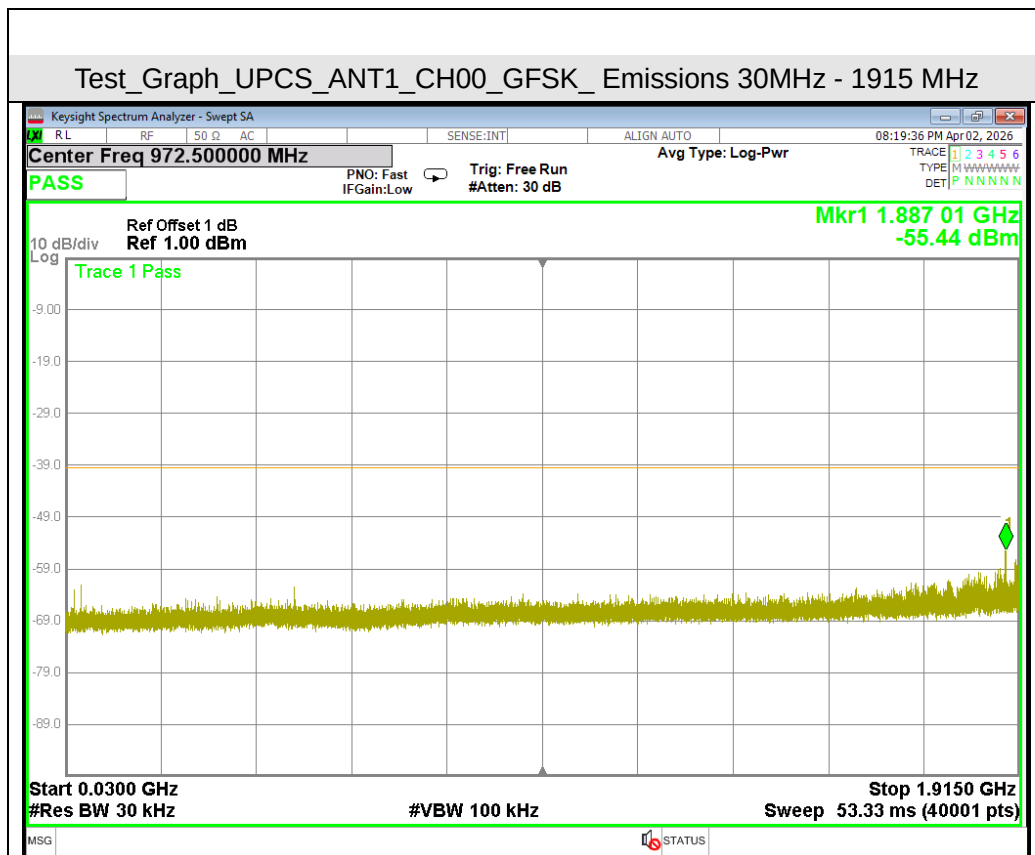


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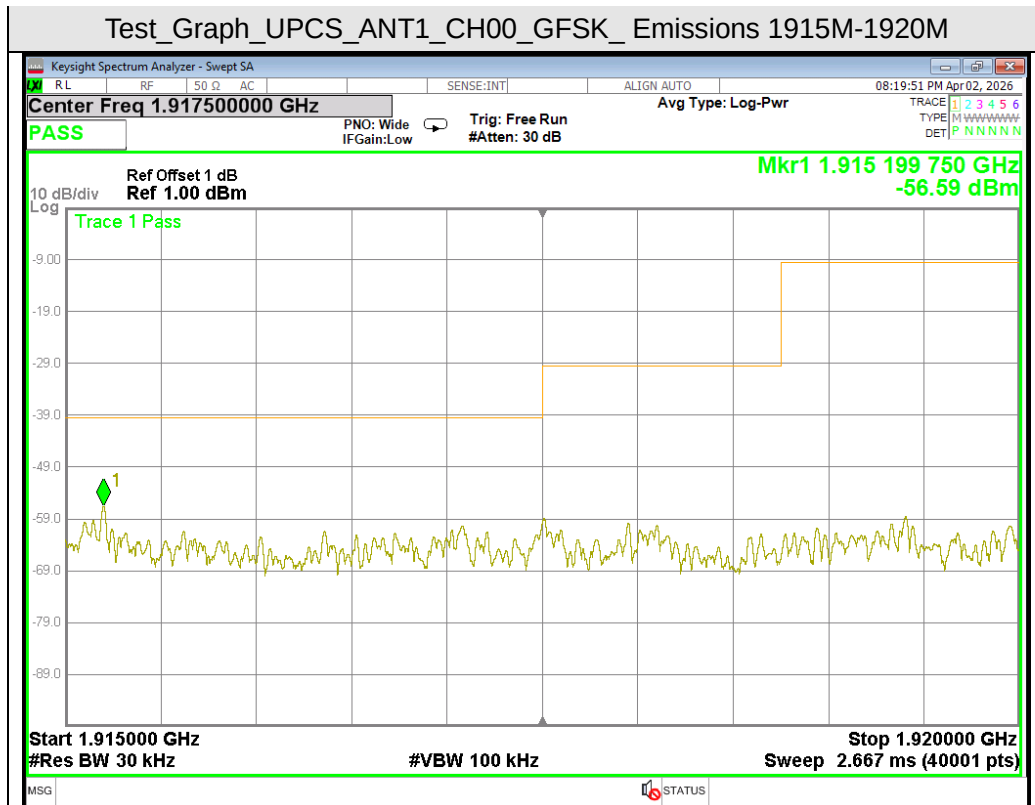
Module B

Test Channel	Frequency (MHz)	Range (MHz)	Reading Frequency (MHz)	Reading Level (dBm)	Additional offset (dB)	Result (dBm)	Limits (dBm)	Result
0	1928.448	1935-20000	16535.6	-53.64	4.26	-49.38	-39.5	PASS
2	1924.992	1935-20000	16581.7	-53.77	4.26	-49.51	-39.5	PASS
4	1921.536	1935-20000	1963	-52.91	4.26	-48.65	-39.5	PASS

Note: The 1dB offset is the maximum deviation within the main frequency band. The maximum deviation within the range of 1935 MHz to 20 GHz is 5.26 dB. The additional offset has been calculated to compensate for this difference. The test results below 1935 MHz can be viewed in the test graph.

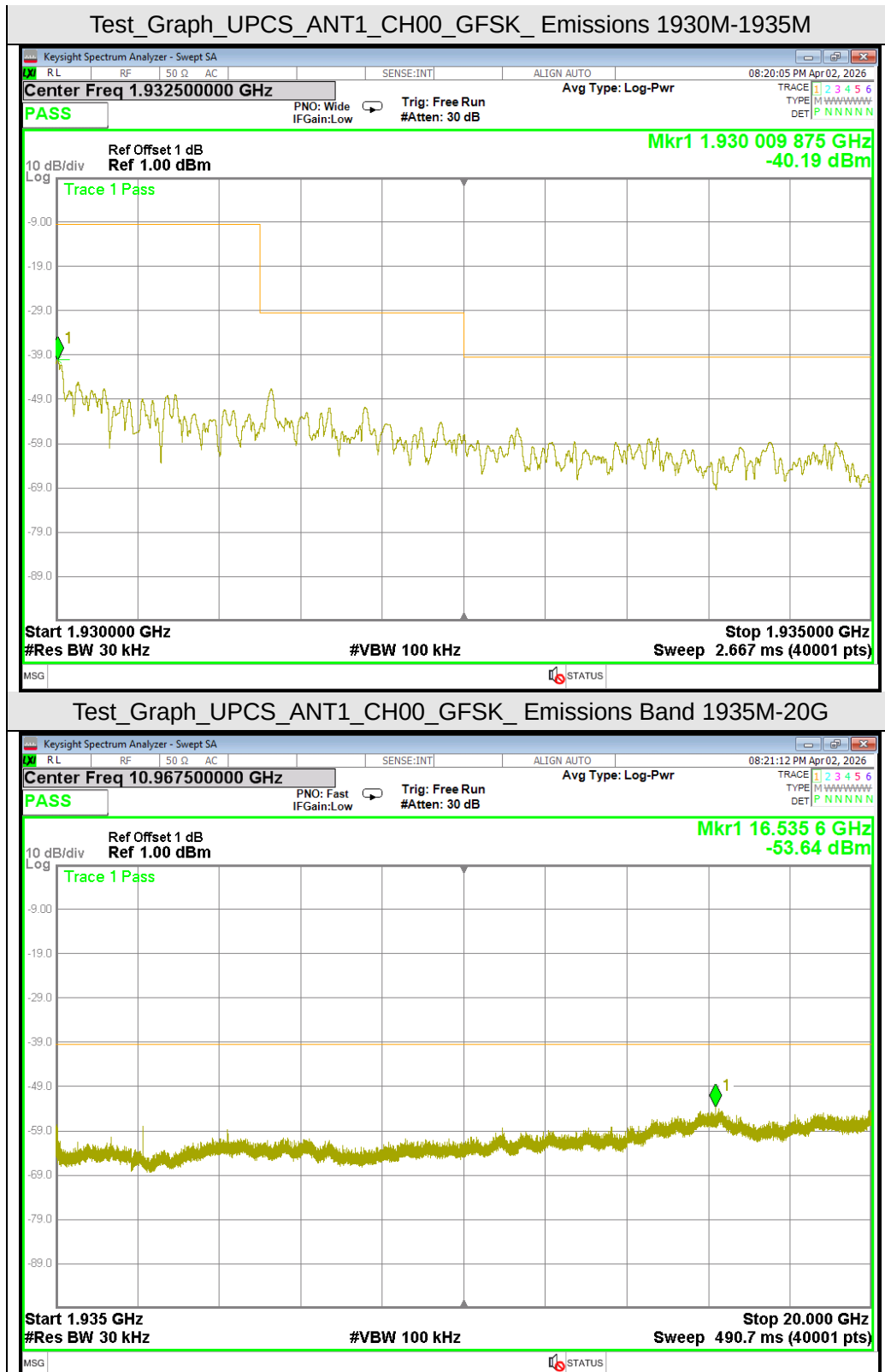


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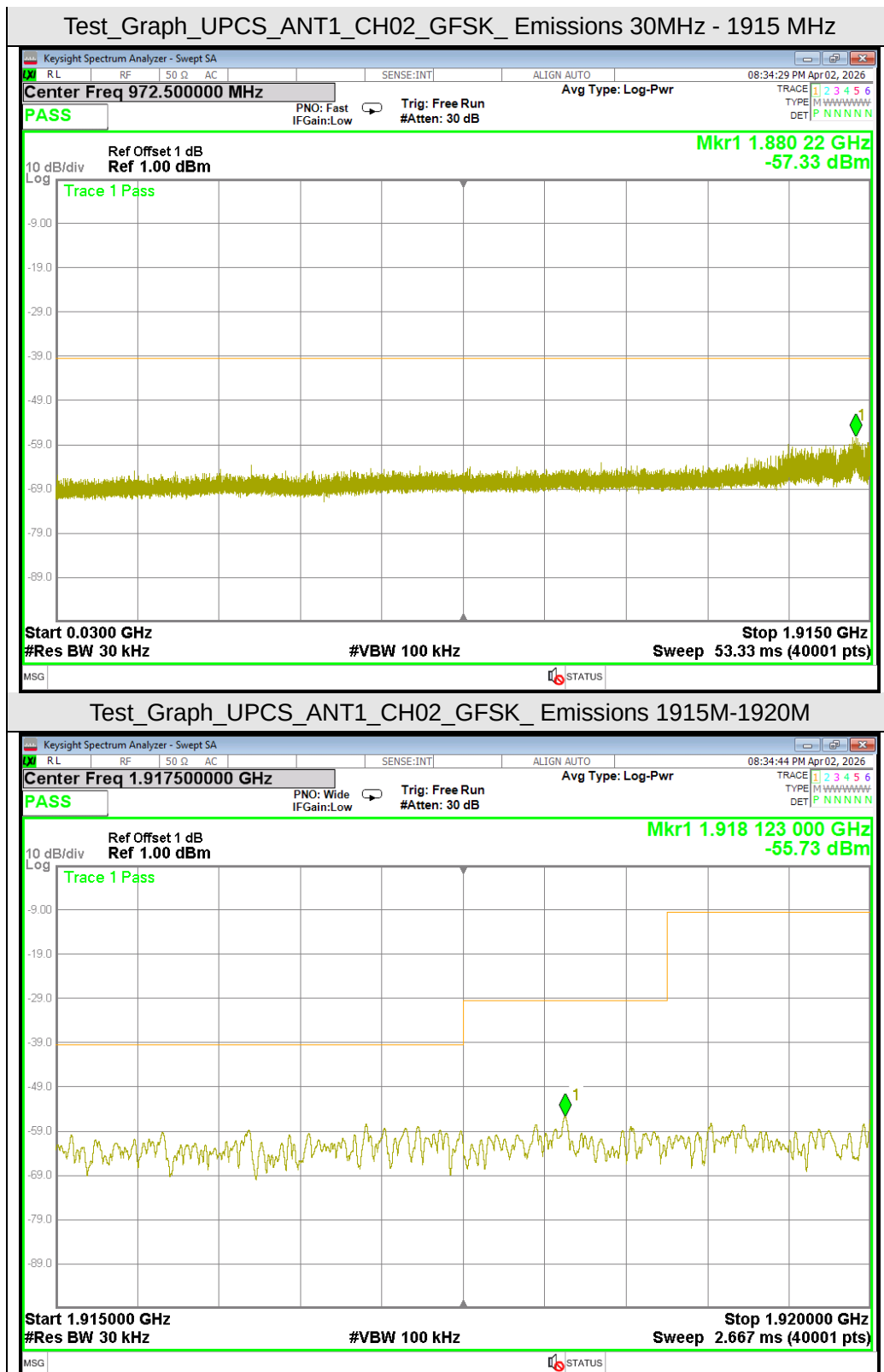


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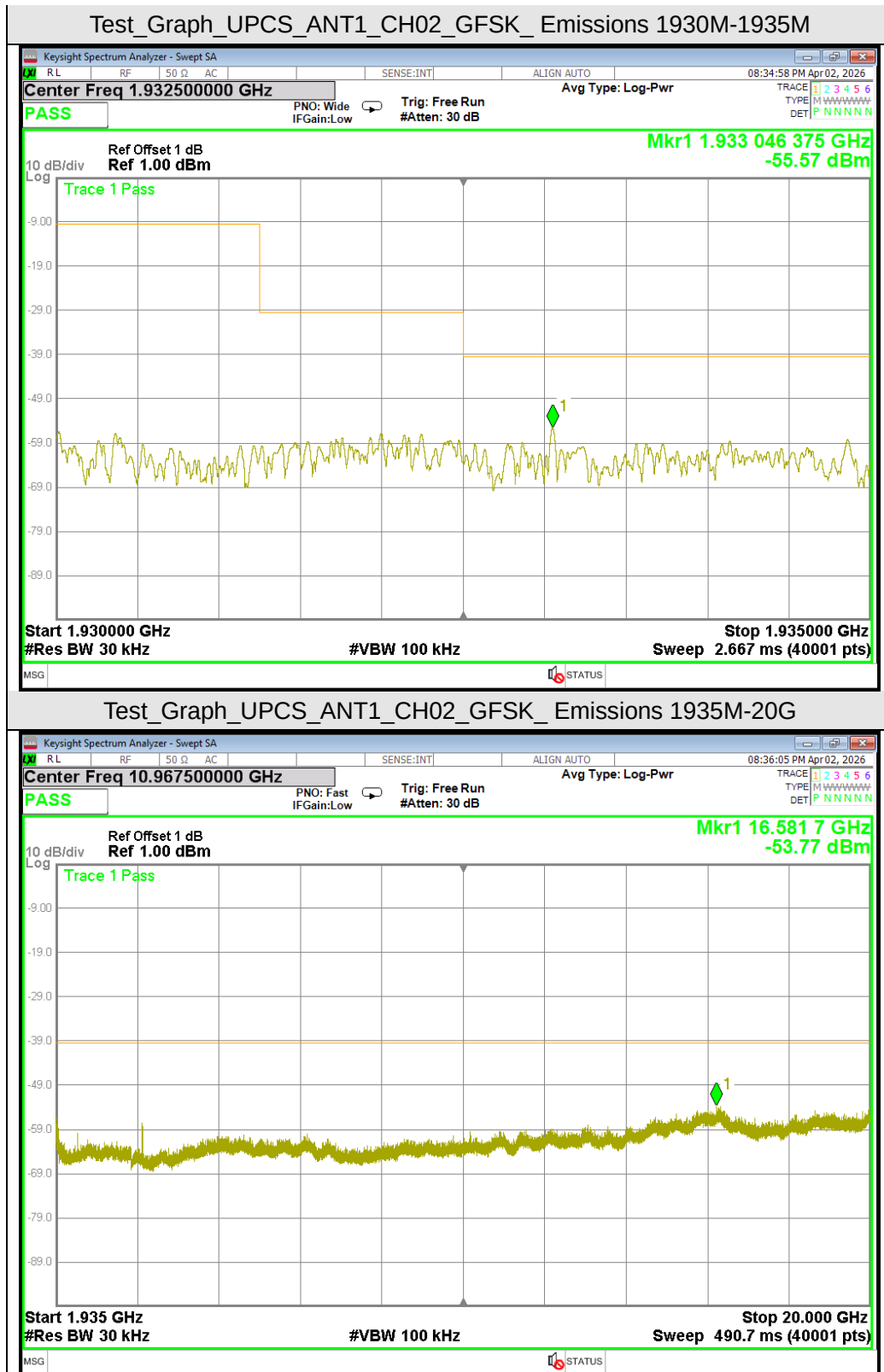
Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



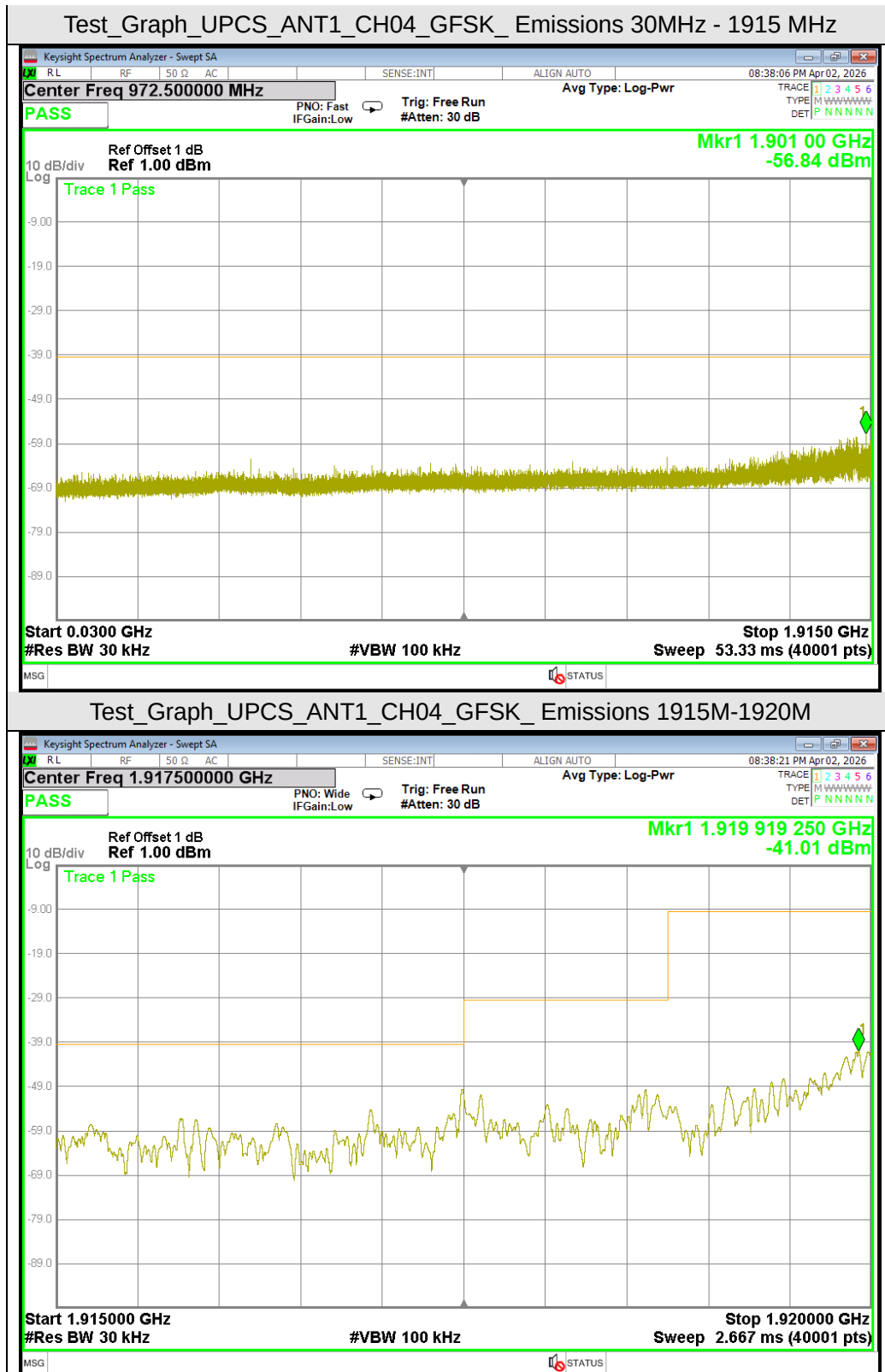
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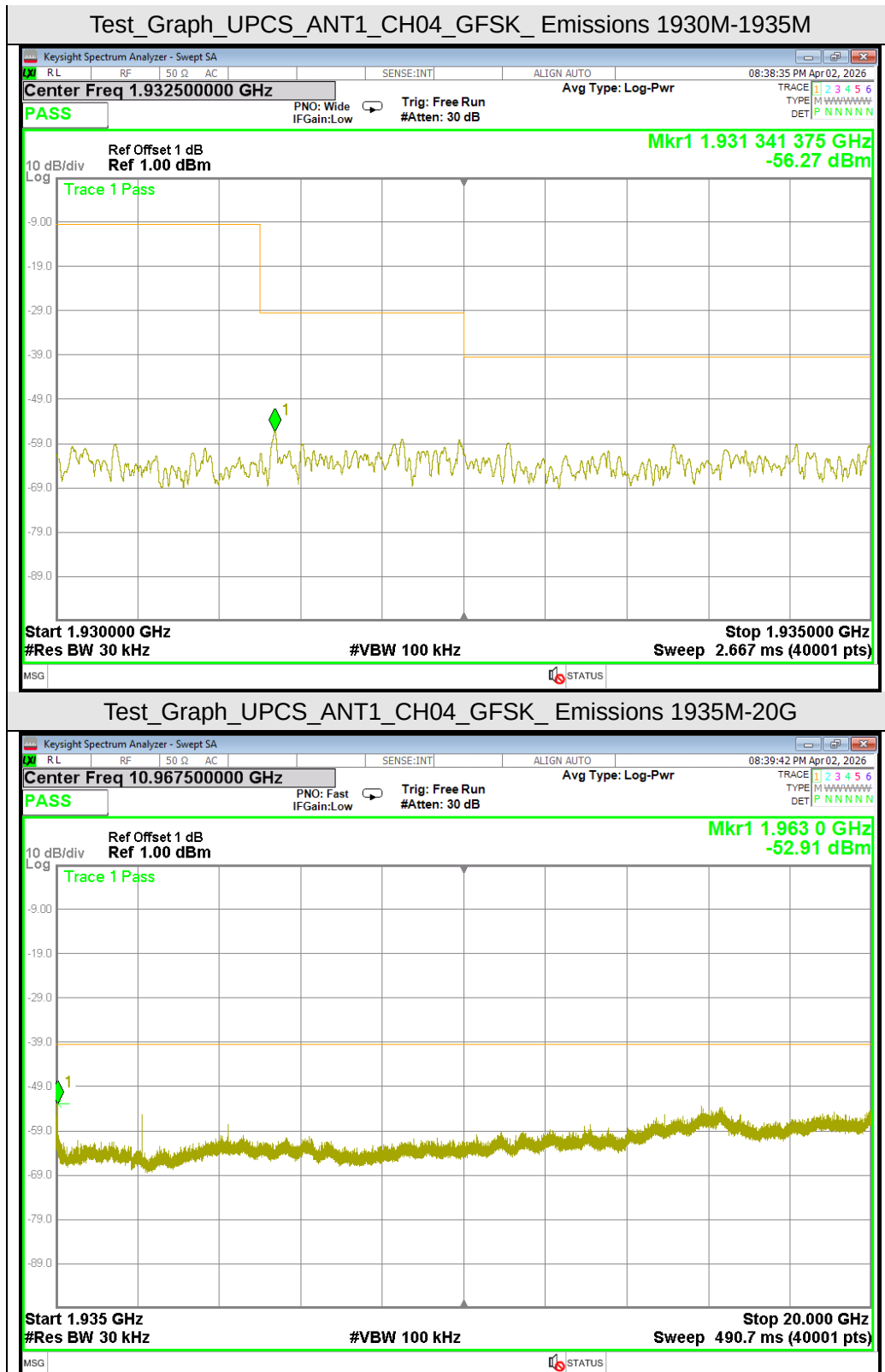
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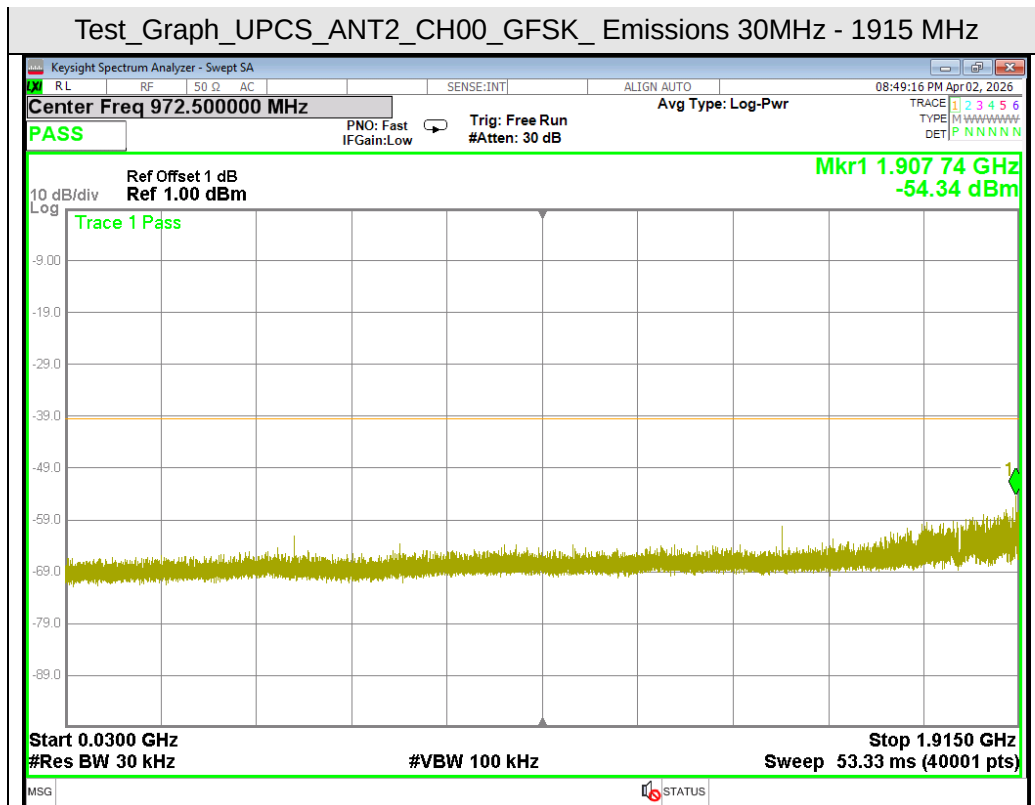
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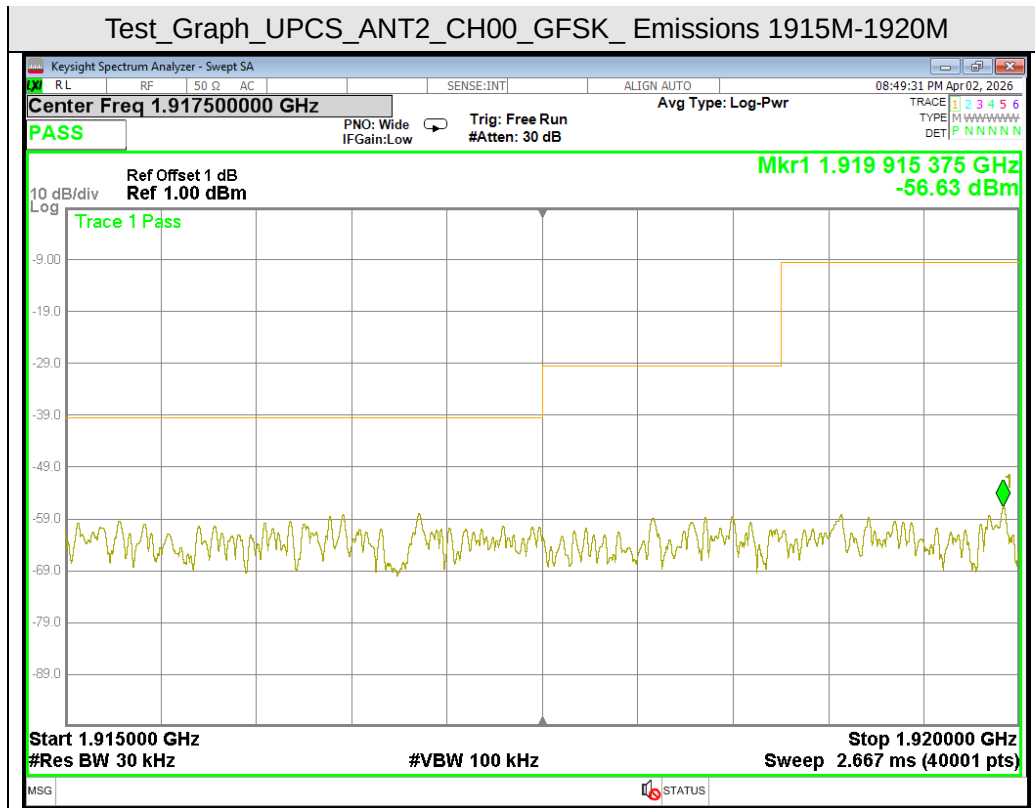
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Test Channel	Frequency (MHz)	Range (MHz)	Reading Frequency (MHz)	Reading Level (dBm)	Additional offset (dB)	Result (dBm)	Limits (dBm)	Result
0	1928.448	1935-20000	16662.5	-53.46	4.26	-49.2	-39.5	PASS
2	1924.992	1935-20000	19997.7	-53.85	4.26	-49.59	-39.5	PASS
4	1921.536	1935-20000	16662.5	-53.46	4.26	-49.2	-39.5	PASS

Note: The 1dB offset is the maximum deviation within the main frequency band. The maximum deviation within the range of 1935 MHz to 20 GHz is 5.26 dB. The additional offset has been calculated to compensate for this difference. The test results below 1935 MHz can be viewed in the test graph.

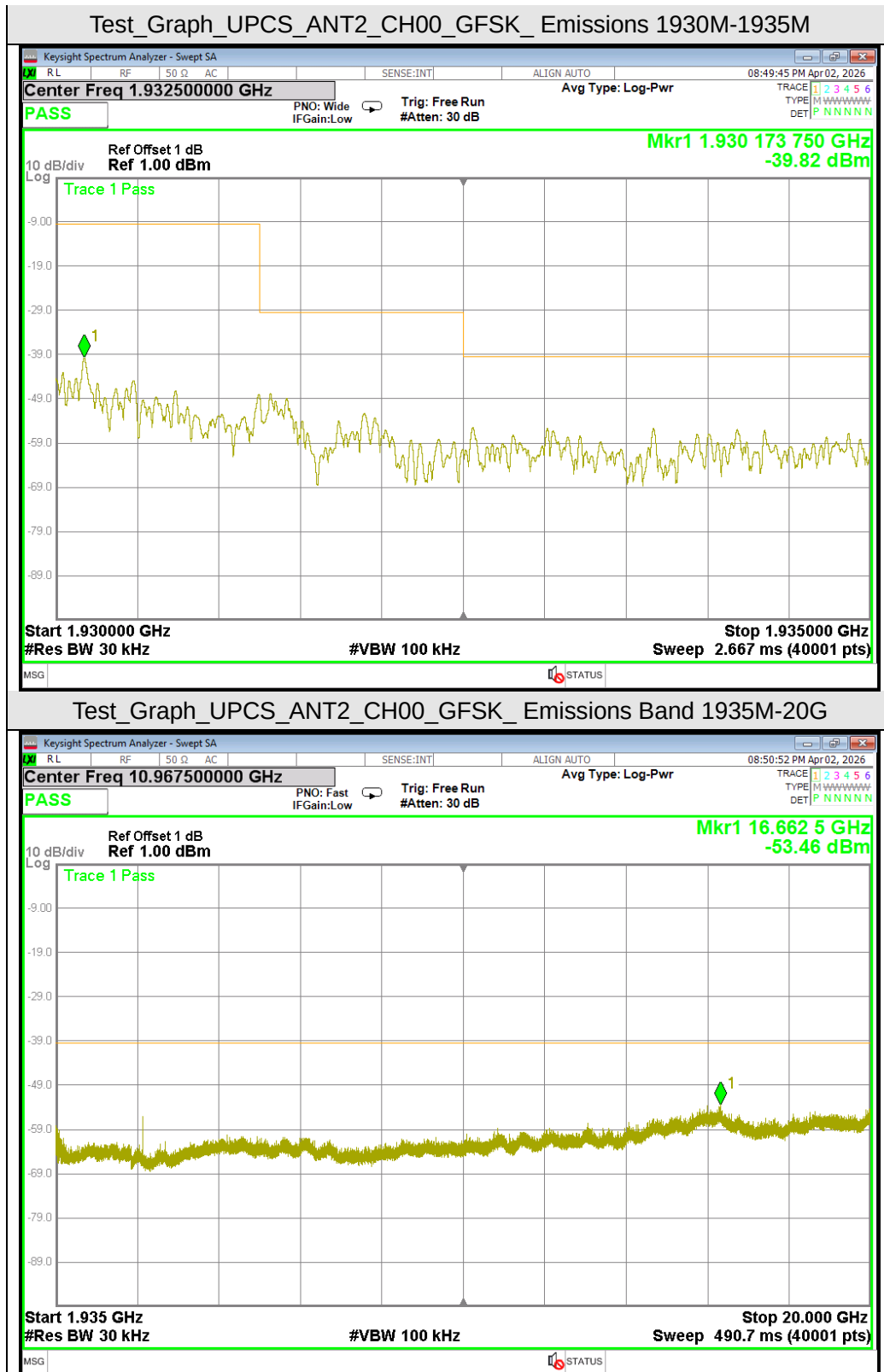


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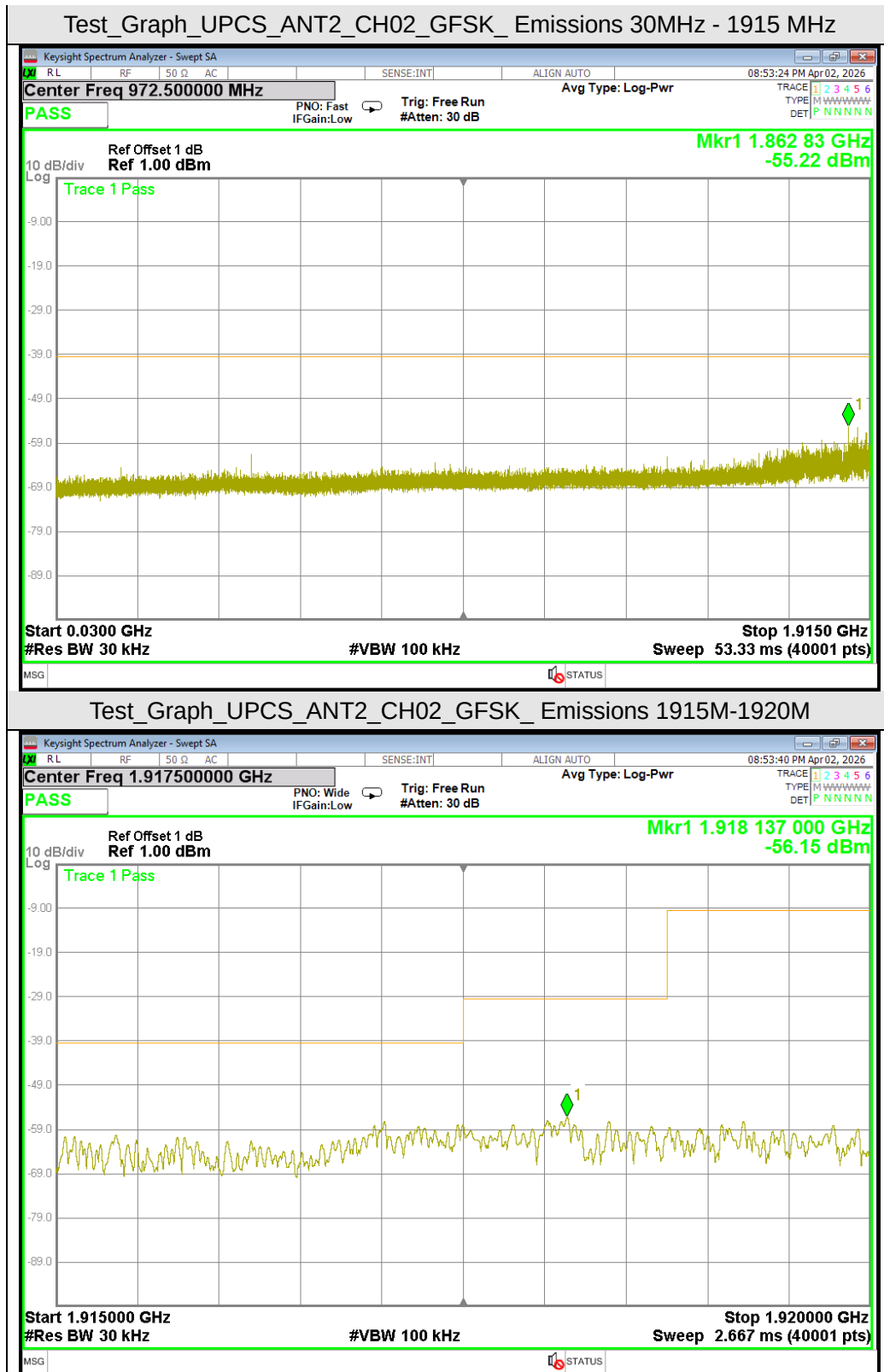


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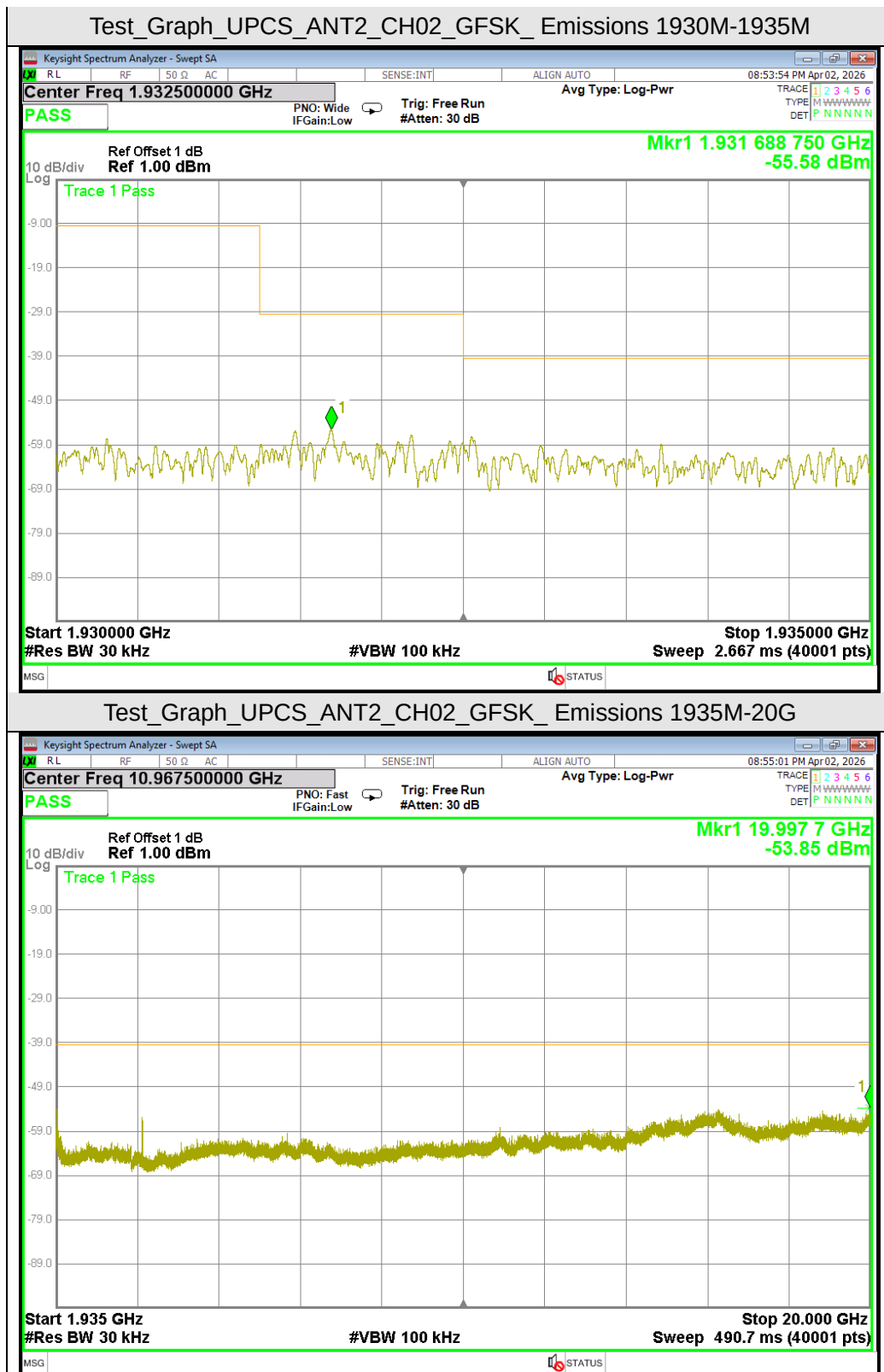
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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



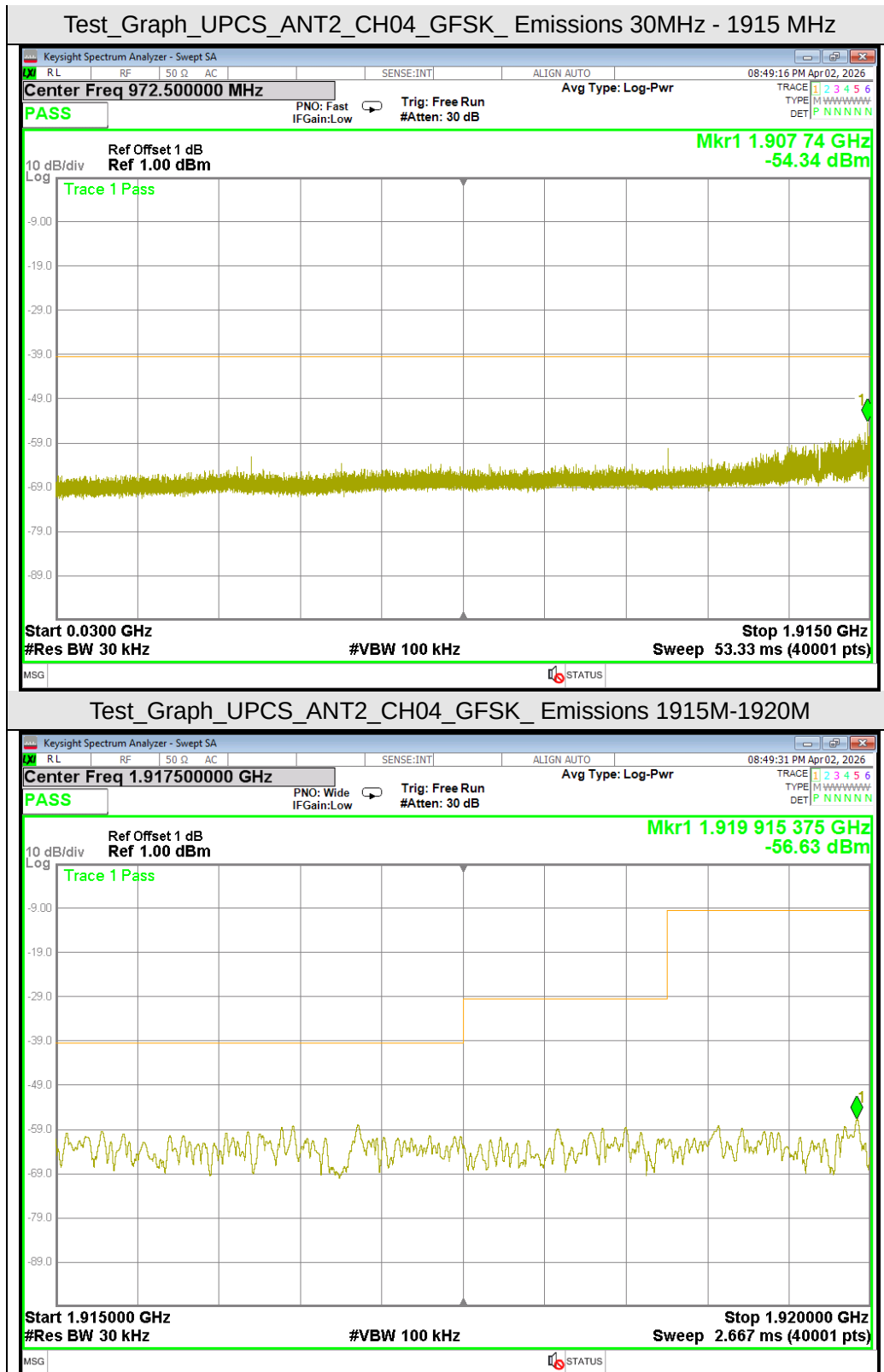
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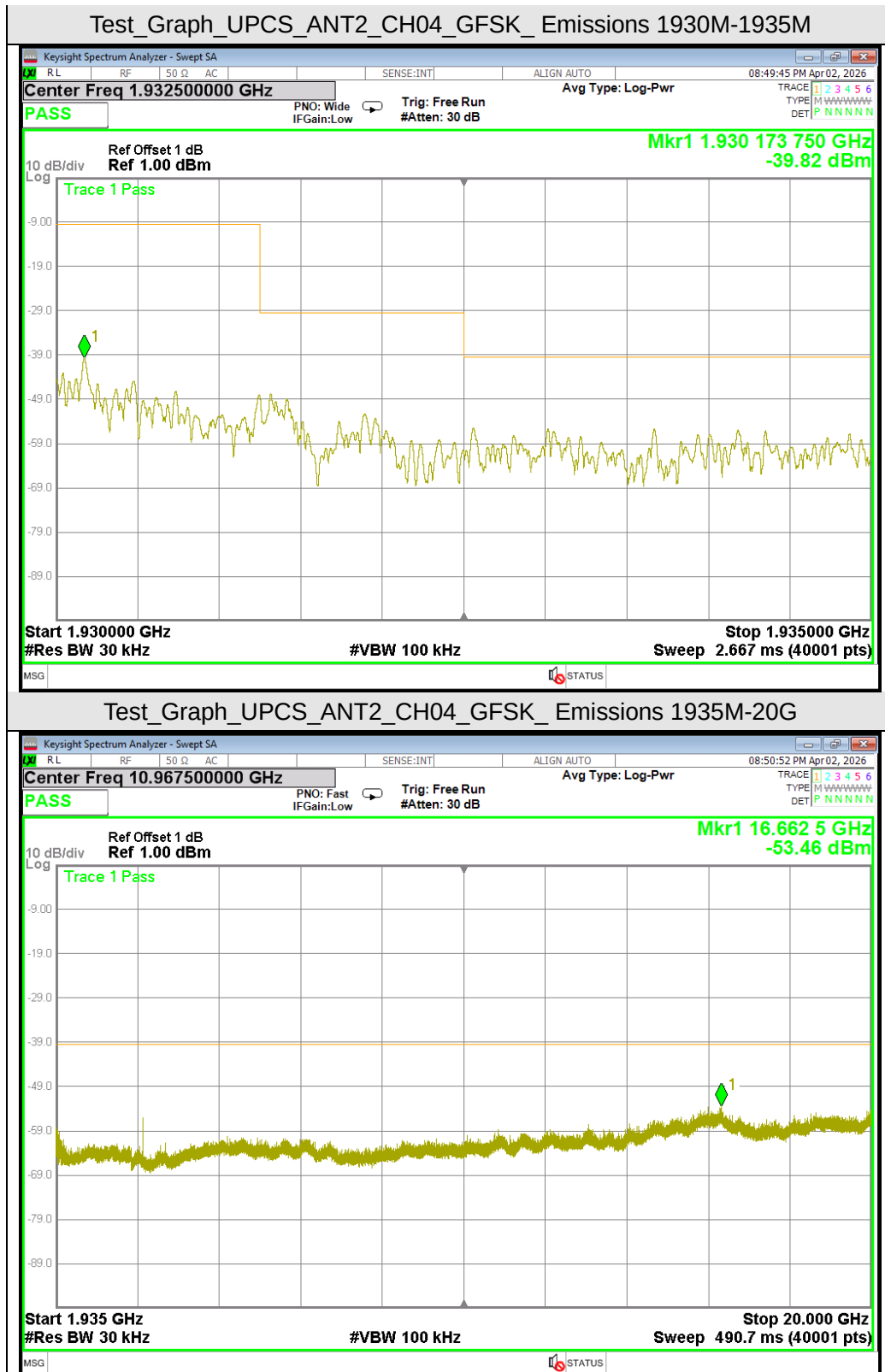
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11. Radiated Emission

11.1 Limits of Radiated Emission Test

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or

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reference ground plane.

7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

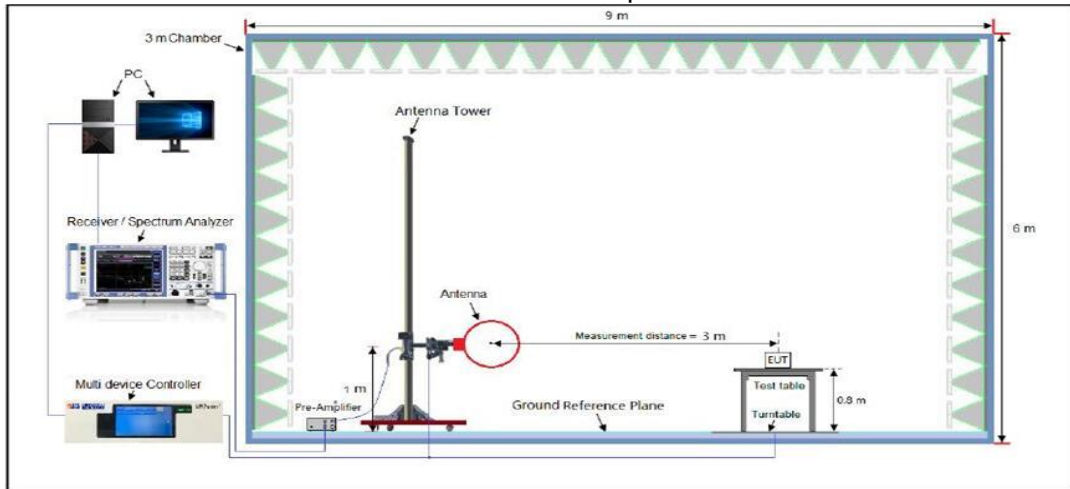
Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

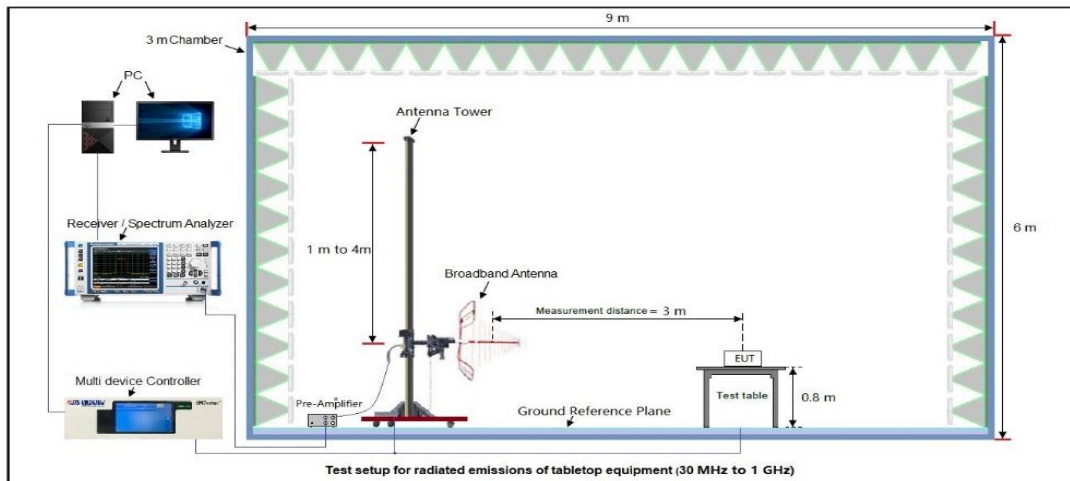
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11.3 Measurement Setup (Block Diagram of Configuration)

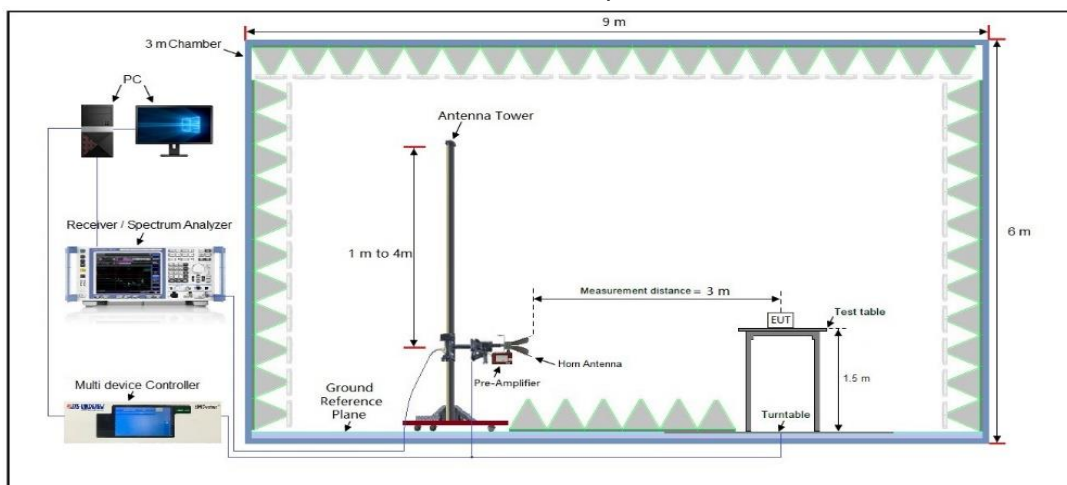
Radiated Emission Test Setup 9kHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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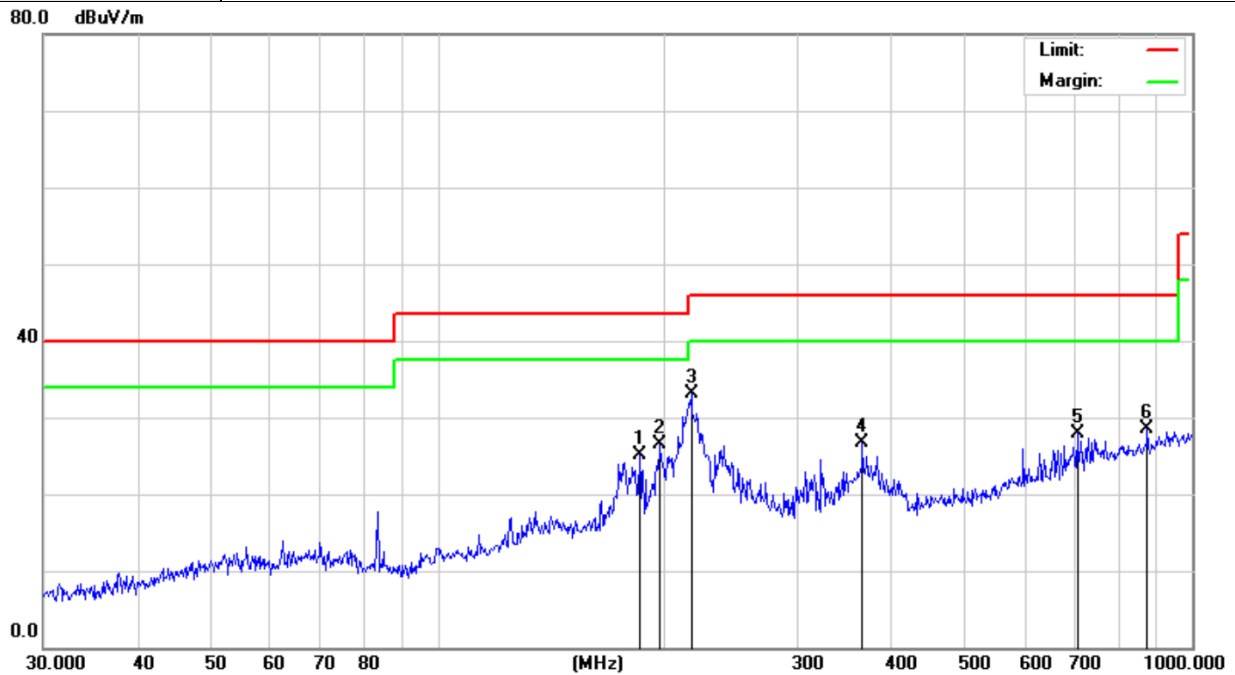
11.4 Measurement Result

Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated Emission Test Results at 30MHz-1GHz Module A

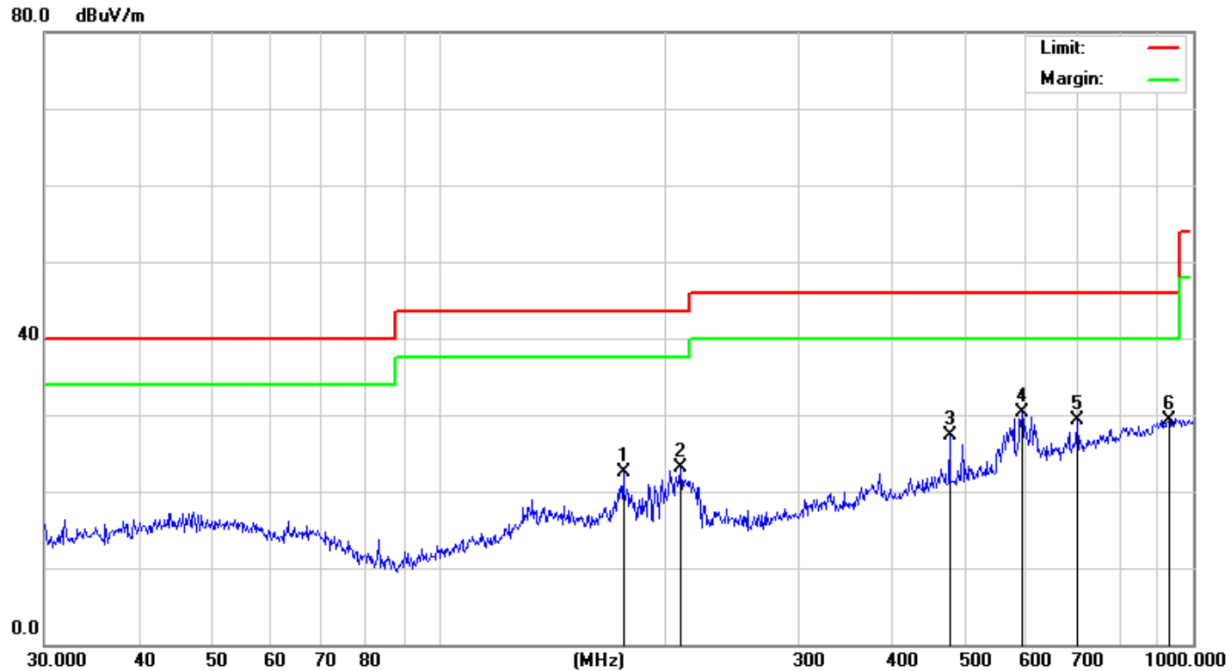
Temperature:	23.1℃	Relative Humidity:	60%
Test Voltage:	DC 14.8V	Phase:	Horizontal
Test Mode:	TX Mode of ANT 1		



Frequency [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
185.1379	25.04	-23.87	43.50	18.46	peak	Horizontal
197.2001	26.59	-24.57	43.50	16.91	peak	Horizontal
216.7828	33.06	-24.79	46.00	12.94	peak	Horizontal
365.5391	26.76	-19.85	46.00	19.24	peak	Horizontal
704.2261	28.00	-14.58	46.00	18.0	peak	Horizontal
872.1832	28.55	-12.30	46.00	17.45	peak	Horizontal

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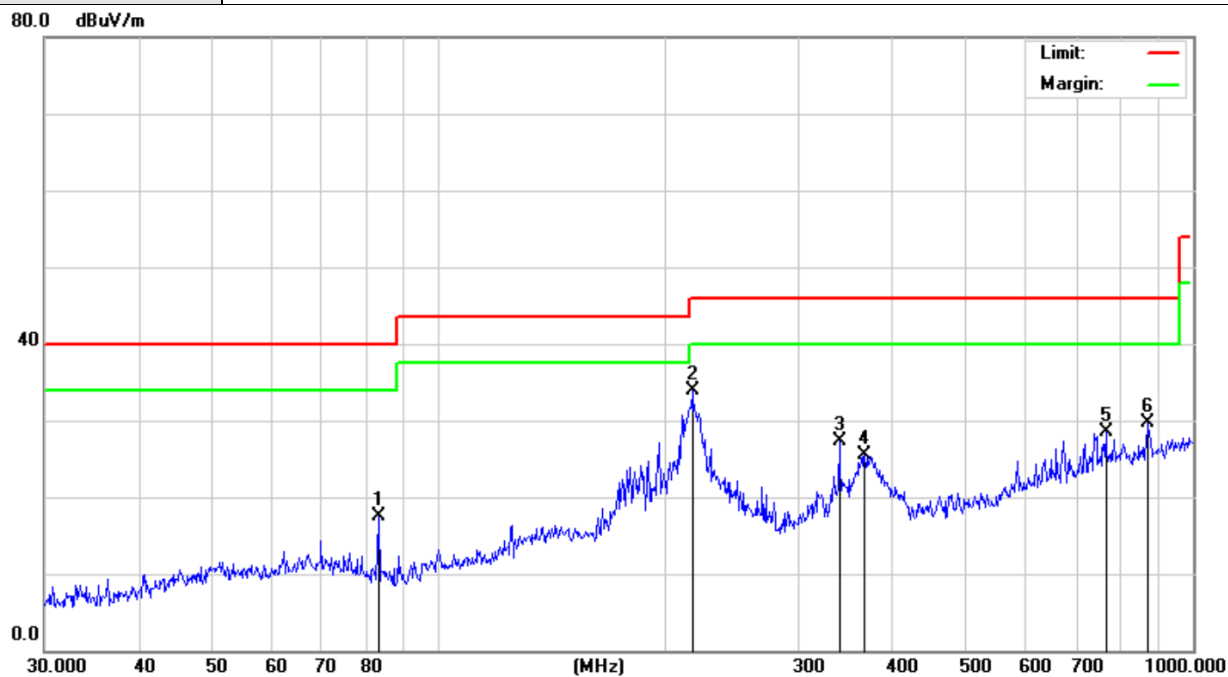
Temperature:	23.1℃	Relative Humidity:	60%
Test Voltage:	DC 14.8V	Phase:	Vertical
Test Mode:	TX Mode of ANT1		



Frequency [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
175.6516	22.54	-22.00	43.50	20.96	peak	Vertical
209.3129	23.18	-24.12	43.50	20.32	peak	Vertical
475.4991	27.29	-16.96	46.00	18.71	peak	Vertical
593.0497	30.25	-14.24	46.00	15.75	peak	Vertical
701.7610	29.29	-12.27	46.00	16.71	peak	Vertical
929.0082	29.34	-9.35	46.00	16.66	peak	Vertical

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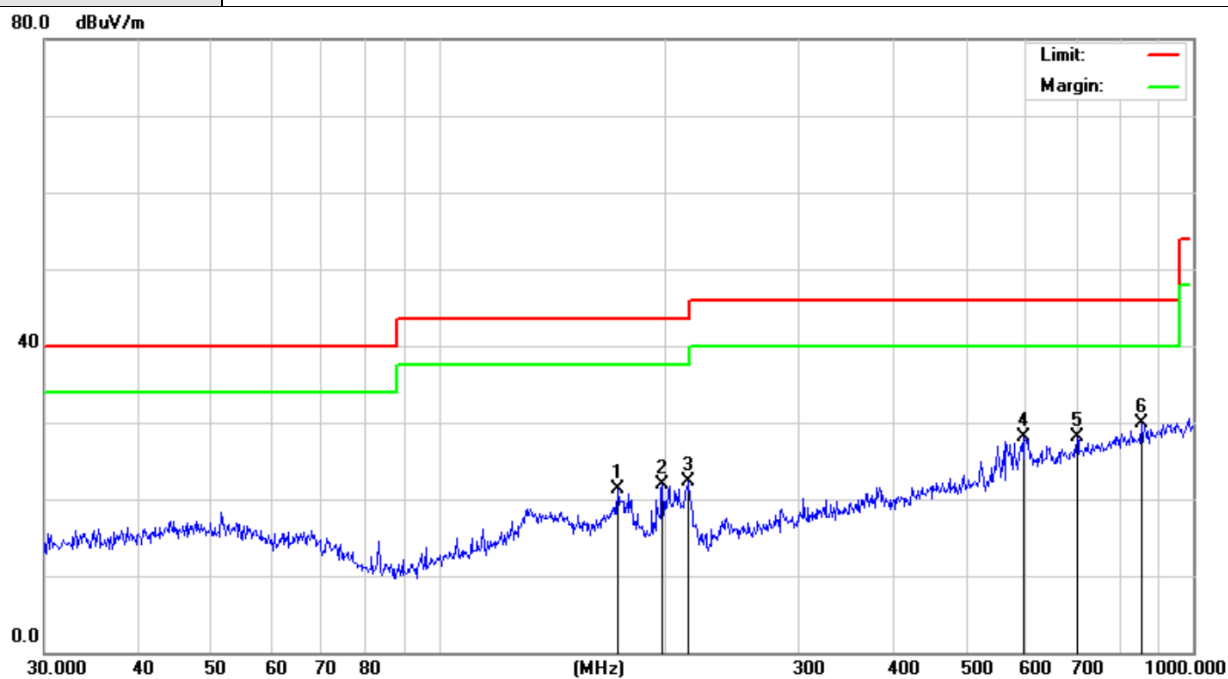
Temperature:	23.1℃	Relative Humidity:	60%
Test Voltage:	DC 14.8V	Phase:	Horizontal
Test Mode:	TX Mode of ANT 2		



Frequency [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
83.2298	17.45	-28.07	40.00	22.55	peak	Horizontal
216.7828	33.94	-24.79	46.00	12.06	peak	Horizontal
339.5888	27.39	-20.39	46.00	18.61	peak	Horizontal
366.8231	25.50	-19.83	46.00	20.5	peak	Horizontal
766.0571	28.55	-13.14	46.00	17.45	peak	Horizontal
872.1832	29.62	-12.30	46.00	16.38	peak	Horizontal

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Temperature:	23.1℃	Relative Humidity:	60%
Test Voltage:	DC 14.8V	Phase:	Vertical
Test Mode:	TX Mode of ANT 2		

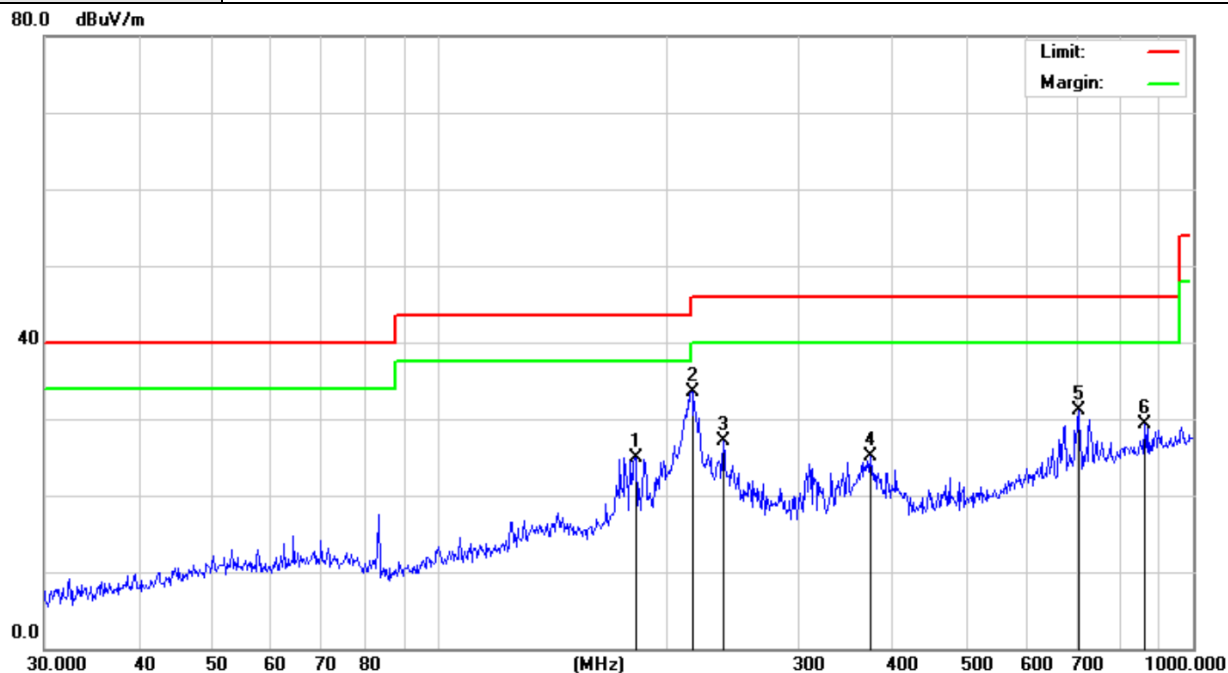


Frequency [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
172.5988	21.38	-21.81	43.50	22.12	peak	Vertical
197.8926	21.96	-23.69	43.50	21.54	peak	Vertical
214.5142	22.40	-23.96	43.50	21.1	peak	Vertical
597.2233	28.06	-14.10	46.00	17.94	peak	Vertical
701.7609	28.07	-12.27	46.00	17.93	peak	Vertical
854.0247	29.89	-10.15	46.00	16.11	peak	Vertical

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Module B

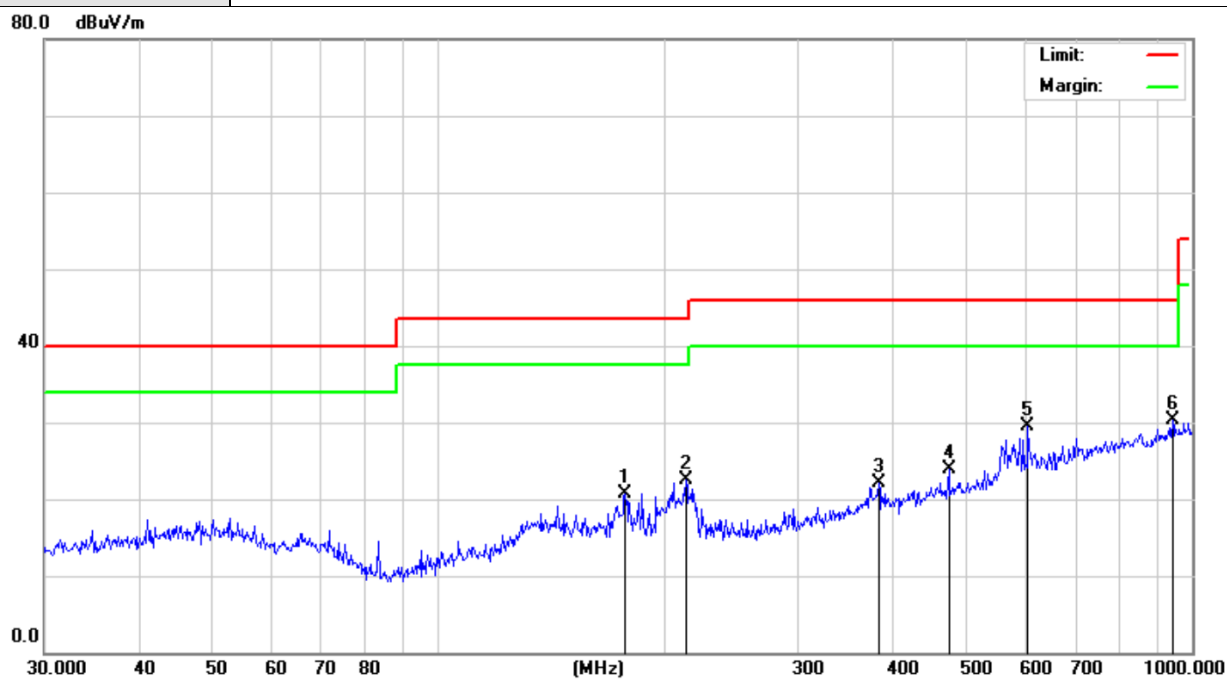
Temperature:	23.1℃	Relative Humidity:	60%
Test Voltage:	DC 14.8V	Phase:	Horizontal
Test Mode:	TX Mode of ANT 1		



Frequency [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
182.5592	24.89	-23.63	43.50	18.61	peak	Horizontal
216.7828	33.58	-24.79	46.00	12.42	peak	Horizontal
238.3102	27.10	-23.39	46.00	18.9	peak	Horizontal
373.3112	25.18	-19.72	46.00	20.82	peak	Horizontal
704.2261	31.01	-14.58	46.00	14.99	peak	Horizontal
863.0562	29.27	-12.34	46.00	16.73	peak	Horizontal

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Temperature:	23.1℃	Relative Humidity:	60%
Test Voltage:	DC 14.8V	Phase:	Vertical
Test Mode:	TX Mode of ANT1		



Frequency [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
176.8878	20.71	-22.21	43.50	22.79	peak	Vertical
213.0151	22.48	-24.00	43.50	21.02	peak	Vertical
383.9318	22.07	-18.98	46.00	23.93	peak	Vertical
475.4991	23.87	-16.96	46.00	22.13	peak	Vertical
605.6592	29.45	-13.84	46.00	16.55	peak	Vertical
942.1305	30.23	-9.36	46.00	15.77	peak	Vertical

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