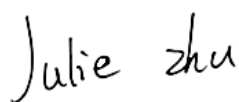


TEST REPORT

Applicant: Shenzhen Hollyland Technology Co., Ltd.
Address: 8F, Building 5D, Skyworth Innovation Valley,
Tangtou Road, Shiyan Street, Baoan District,
Shenzhen, 518055 China
Equipment Type: Full-Duplex Wireless Intercom System
Model Name: Solidcom C1 Air
Brand Name: 
FCC ID: 2ADZC-5805R
Test Standard: 47 CFR Part 15 Subpart D
(refer to section 3.1)
Sample Arrival Date: Apr. 03, 2026
Test Date: Apr. 13, 2026 - Apr. 27, 2026
Date of Issue: Apr. 27, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Julie Zhu**Checked by:** Ye Hongji**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 21, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Apr. 27, 2026</u>	<u>Increase the test data for MIMO;</u> <u>Updated the Frequency Range in Chapter</u> <u>2.4</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong Province, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen Hollyland Technology Co., Ltd.
Address	8F, Building 5D, Skyworth Innovation Valley, Tangtou Road, Shiyan Street, Baoan District, Shenzhen, 518055 China

2.2 Manufacturer Information

Manufacturer	Shenzhen Hollyland Technology Co., Ltd.
Address	8F, Building 5D, Skyworth Innovation Valley, Tangtou Road, Shiyan Street, Baoan District, Shenzhen, 518055 China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Full-Duplex Wireless Intercom System
Model Name Under Test	Solidcom C1 Air
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	I5805_PP_V38
Software Version	V2.0.4.00
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	DECT
-----------------------------------	------

The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	1920 MHz ~ 1930 MHz	
Number of Channels	5 Channels, 5x12 = 60 TDMA Duplex Channels	
Modulation Type	GFSK	
Number of Antennas	2	
Product Type	☐ Mobile ☒ Portable ☐ Fix Location	
Antenna Type	ANT1	LDS Antenna
	ANT2	
Antenna Gain	ANT1	-0.39 dBi
	ANT2	-3.40 dBi
About the Product	This DECT product is a fixed radio termination.	

All channel list:

Channel Number	Channel	Frequency (MHz)
4	Low	1921.536
3	--	1923.264
2	Middle	1924.992
1	--	1926.720
0	High	1928.488

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart D	Intentional radiators of radio frequency equipment
2	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
3	ANSI C63.10-2020	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices
4	ANSI C63.17-2013	American National Standard for Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communication Services (UPCS) Devices

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
General Technical Requirements				
1	Antenna Requirement	15.203; 15.317	N/A	Pass ^{Note 1}
2	Labeling Requirement	15.19(a)(3)	N/A	Pass ^{Note 2}
3	Digital Modulation Techniques	15.319 (b)	N/A	Pass ^{Note 3}
4	Conducted Emission	15.107(a); 15.207(a)	ANNEX A.1	Pass
5	Peak Transmit Power	15.319(c)(e), 15.31(e)	ANNEX A.2	Pass
6	Power Spectral Density (PSD)	15.319 (d)	ANNEX A.3	Pass
7	Emission Bandwidth	15.323 (a)	ANNEX A.4	Pass
8	Emission Inside and Out the sub-band	15.323 (d)	ANNEX A.5	Pass
9	Carrier Frequency Stability	15.323(f)	ANNEX A.6	Pass
10	Spurious Emissions (Radiated)	15.319(g) 15.109(a), 15.209(a)	ANNEX A.7	Pass
Specific Requirements for UPCS Device				
10	Frame Repetition Stability, Period and Jitter	15.323(e)	ANNEX A.8	Pass
11	Monitoring The Time	15.323 (c)(1)	ANNEX A.9	Pass
12	Monitoring Threshold	15.323 (c)(2) (9)	ANNEX A.10	N/A
13	Maximum Transmit Period	15.323 (c)(3)	ANNEX A.11	Pass
14	Acknowledgment System	15.323 (c)(4)	ANNEX A.12	Pass
15	Least Interfered Channel, LIC	15.323 (c)(5)	ANNEX A.13	Pass
16	Random Waiting	15.323 (c)(6)	ANNEX A.14	Pass
17	Monitoring Bandwidth and Reaction Time	15.323 (c)(7)	ANNEX A.15	Pass
18	Monitoring Antenna	15.323 (c)(8)	ANNEX A.16	N/A
19	Duplex System LBT	15.323 (c)(10)	ANNEX A.17	Pass
20	Co-located Device LBT	15.323 (c)(11)	ANNEX A.18	N/A
21	Fair Access	15.323 (c)(12)	ANNEX A.19	N/A

Note ¹: Please refer to section 5.1.

Note ²: Customer declaration. See separate documents showing the label design and the placement of the label on the EUT.

Note ³: The requirement is all transmissions must use only digital modulation techniques. They are made in accordance with ANSI C63.17 sub-clause 6.1.4. Please refer to the technical description or relevant DECT standards for more details.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% to 64%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+19.7℃ to +24.9℃
Working Voltage of the EUT	NV (Normal Voltage)	3.87 V
	LV (Low Voltage)	3.48 V
	HV (High Voltage)	4.26 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2025.05.21	2026.05.20
Power meter	R&S	NRP8S	101498	2025.07.07	2026.07.06
Spectrum Analyzer	R&S	FSV40	101544	2025.10.30	2026.10.29
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060127	2025.12.25	2026.12.24
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	Schwarzbeck	FMZB 1513-60	00015	2024.05.07	2026.05.06
Anechoic Chamber	YIHENG	C8-966	107	2024.05.12	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2026.12.26	2026.12.25
Filtering unit	balun	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A
EMI Receiver	keysight	N9038B	MY61380132	2026.12.26	2026.12.25
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK8127	01009	2025.07.15	2026.07.14
Shielded Enclosure	YiHeng Electronic Co., Ltd	4.3m*2.9m*2.4 m	235	2024.11.05	2027.11.04
Signaling Unit	RTX Telecom	RTX 2011	6038	2026.03.25	2027.03.24

4.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

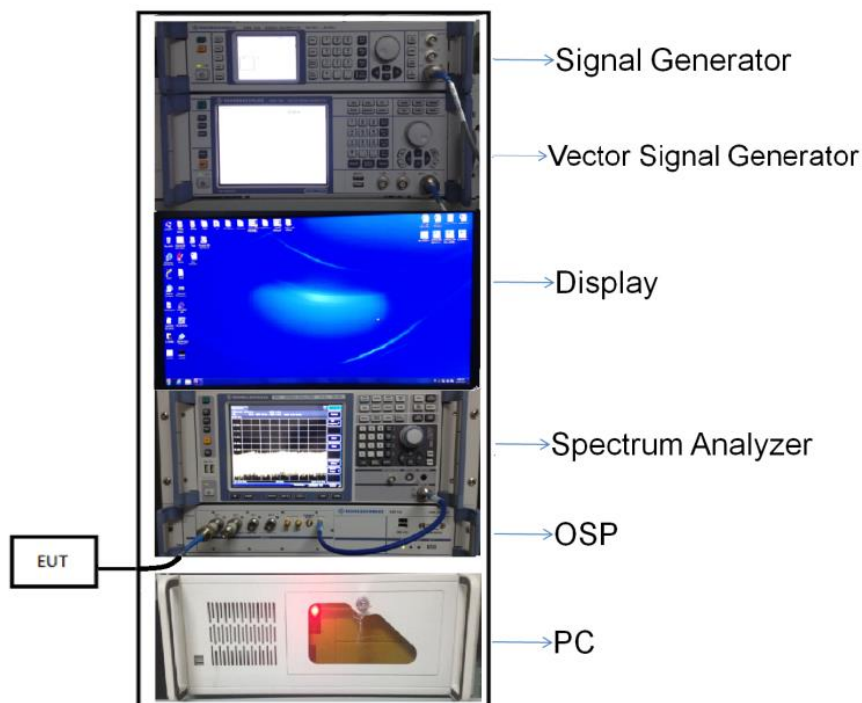
4.4 Description of Test Setup

4.4.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

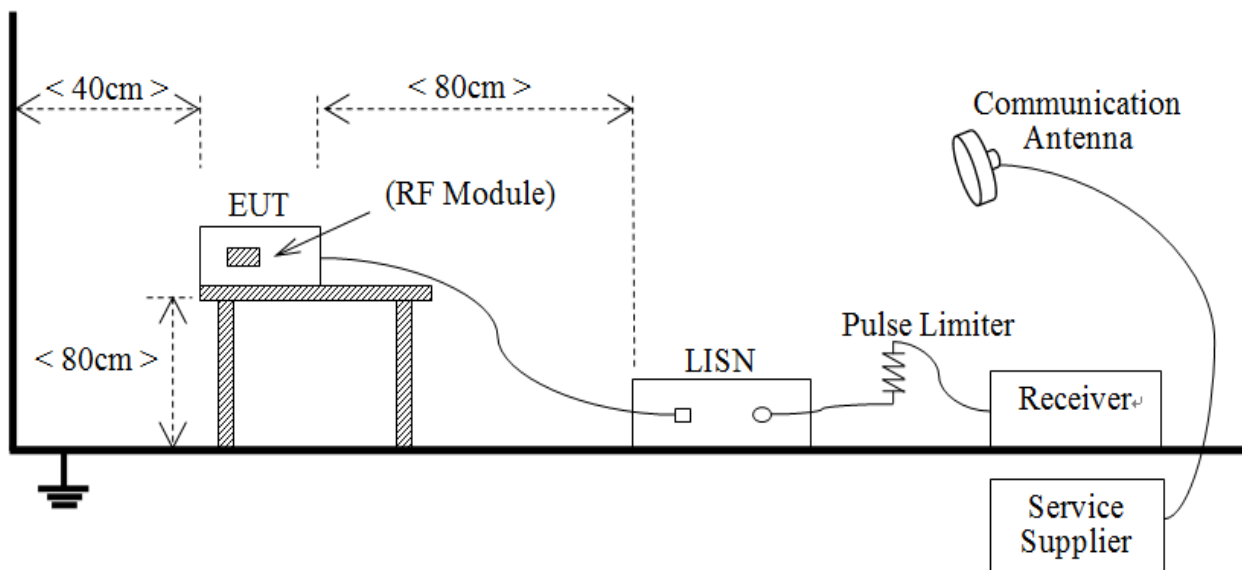
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



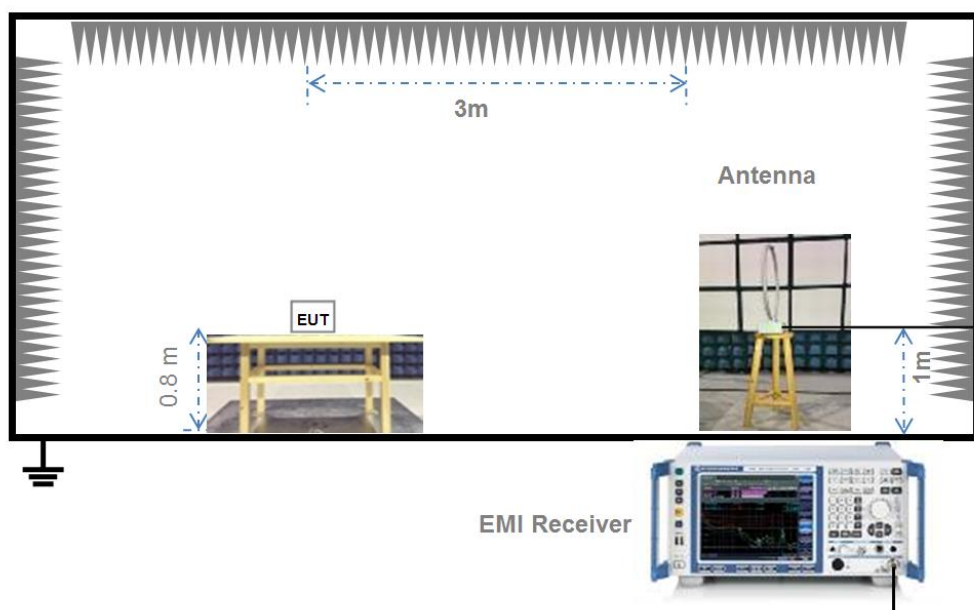
(Diagram 1)

4.4.2 For AC Power Supply Port Test



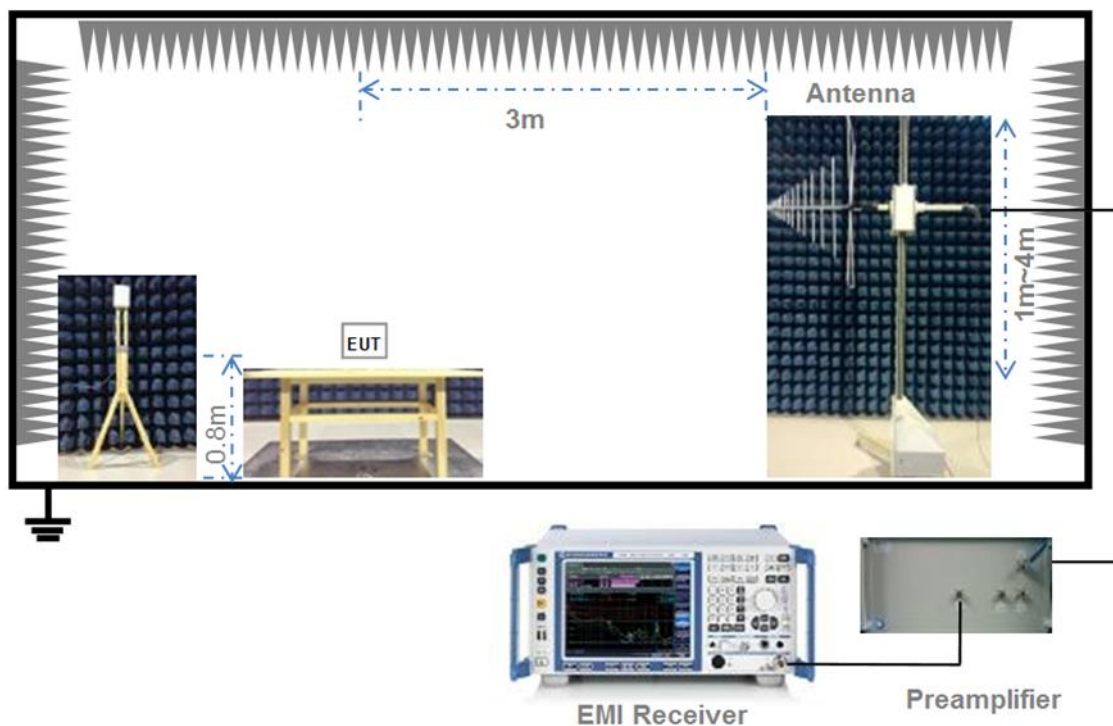
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



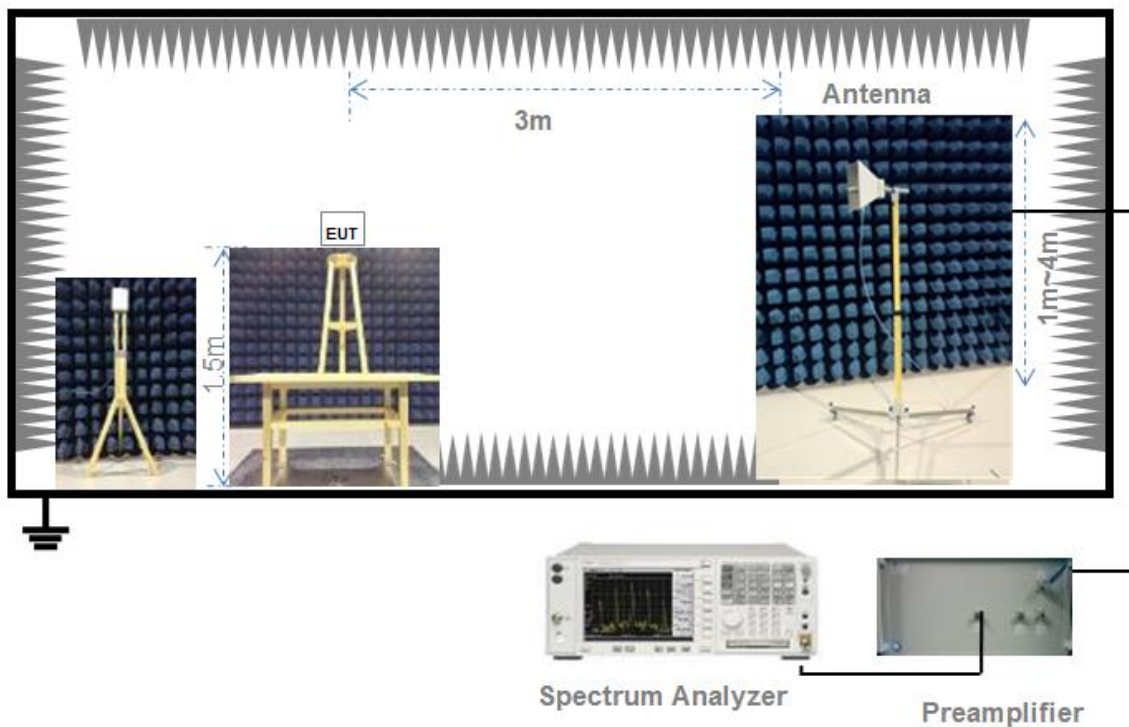
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.317

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, or § 15.221. 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.

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

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Conducted Emission

5.2.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.2.2 Test Setup

See section 4.4.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Peak Transmit Power

5.3.1 Test Limit

FCC § 15.319(c)(e)

Peak transmit power shall not exceed 100 microwatts multiplied by the square root of the emission bandwidth in Hertz.

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

5.3.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Reference to ANSI C63.17, Clause 6.1.2.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Power Spectral Density (PSD)

5.4.1 Limit

FCC §15.319(d)

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.

5.4.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

Reference to ANSI C63.17, Clause 6.1.5.

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Emission Bandwidth

5.5.1 Limit

FCC §15.323 (a)

The 26 dB and 99% Bandwidth B shall be larger than 50 kHz and less than 2.5 MHz

5.5.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Reference to ANSI C63.17, Clause 6.1.3.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Emission Inside and Out the sub-band

5.6.1 Limit

FCC §15.323 (d)

In-Band Emissions:

$B < f \leq 2B$: at least 30 dB below max. permitted peak power

$2B < f \leq 3B$: at least 50 dB below max. permitted peak power

$3B < f \leq$ UPCS Band Edge: at least 60 dB below max. permitted peak power

Out-of-Band Emissions:

$f \leq 1.25\text{MHz}$ outside UPCS band: $\leq -9.5\text{dBm}$

$1.25\text{MHz} \leq f \leq 2.5\text{MHz}$ outside UPCS band: $\leq -29.5\text{ dBm}$

$f \geq 2.5\text{MHz}$ outside UPCS band: $\leq -39.5\text{ dBm}$

5.6.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

Reference to ANSI C63.17, Clause 6.1.6.

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Carrier Frequency Stability

5.7.1 Limit

FCC §15.323 (f)

The frequency stability of the carrier frequency of the intentional radiator shall be maintained within ± 10 ppm over 1 hour or the interval between channel access monitoring, whichever is shorter. The frequency stability shall be maintained over a temperature variation of -20° to $+ 50^{\circ}$ °C at normal supply voltage, and over a variation in the primary supply voltage of 85 percent to 115 percent of the rated supply voltage at a temperature of 20° °C. For equipment that is capable only of operating from a battery, the frequency stability tests shall be performed using a new battery without any further. Requirement to vary supply voltage.

5.7.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

Reference to ANSI C63.17, Clause 6.2.1.

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Spurious Emissions (Radiated)

5.8.1 Limit

FCC §15.319 (d); 15.109 (a) ; 15.209 (a)

Notwithstanding other technical requirements specified in this subpart, attenuation of emissions below the general emission limits in §15.209 is not required.

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
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

Note:

1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.8.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

Reference to ANSI C63.17, Clause 6.1.6.

5.8.4 Test Result

Please refer to ANNEX A.7

5.9 Frame Repetition Stability, Period and Jitter

5.9.1 Requirements

FCC §15.323 (e)

The frame period (a set of consecutive time slots in which the position of each time slot can be identified by reference to a synchronizing source) of an intentional radiator operating in this band shall be 20 milliseconds or 10 milliseconds/X where X is a positive whole number. Each device that implements time division for the purposes of maintaining a duplex connection on a given frequency carrier shall maintain a frame repetition rate with a frequency stability of at least 50 parts per million (ppm). Each device which further divides access in time in order to support multiple communication links on a given frequency carrier shall maintain a frame repetition rate with a frequency stability of at least 10 ppm. The jitter (time-related, abrupt, spurious variations in the duration of the frame interval) introduced at the two ends of such a communication link shall not exceed 25 microseconds for any two consecutive transmissions. Transmissions shall be continuous in every time and spectrum window during the frame period defined for the device.

5.9.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

Reference to ANSI C63.17, Clause 6.2.2&6.2.3.

5.9.4 Test Result

Please refer to ANNEX A.8.

5.10 Monitoring The Time

5.10.1 Limit

FCC §15.323 (c) (1)

Immediately prior to initiating transmission, devices must monitor the combined time and spectrum windows in which they intend to transmit for a period of at least 10 milliseconds for systems designed to use a 10 milliseconds or shorter frame period or at least 20 milliseconds for systems designed to use a 20 milliseconds frame period.

5.10.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.10.3 Test Procedure

Reference to ANSI C63.17, Clause 7.3.3.

5.10.4 Test Result

Please refer to ANNEX A.9.

5.11 Monitoring Threshold

5.11.1 Limit

FCC §15.323 (c) (2)

The monitoring threshold must not be more than 30 dB above the thermal noise power for a bandwidth equivalent to the emission bandwidth used by the device.

FCC §15.323 (c) (9)

Devices that have a power output lower than the maximum permitted under this subpart may increase their monitoring detection threshold by one decibel for each one decibel that the transmitter power is below the maximum permitted.

5.11.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.11.3 Test Procedure

Reference to ANSI C63.17, Clause 7.3.1.

5.11.4 Test Result

Please refer to ANNEX A.10.

5.12 Maximum Transmit Period

5.12.1 Limit

FCC §15.323 (c) (3)

If no signal above the threshold level is detected, transmission may commence and continue with the same emission bandwidth in the monitored time and spectrum windows without further monitoring. However, occupation of the same combined time and spectrum windows by a device or group of cooperating devices continuously over a period of time longer than 8 hours is not permitted without repeating the access criteria.

5.12.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.12.3 Test Procedure

Reference to ANSI C63.17, Clause 8.2.2.

5.12.4 Test Result

Please refer to ANNEX A.11.

5.13 Acknowledgment System

5.13.1 Limit

FCC §15.323 (c) (4)

Once access to specific combined time and spectrum windows is obtained an acknowledgment from a system participant must be received by the initiating transmitter within one second or transmission must cease. Periodic acknowledgments must be received at least every 30 seconds or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 seconds without receiving an acknowledgment, at which time the access criteria must be repeated.

5.13.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.13.3 Test Procedure

Reference to ANSI C63.17, Clause 8.2.

5.13.4 Test Result

Please refer to ANNEX A.12.

5.14 Least Interfered Channel, LIC

5.14.1 Limit

FCC §15.323 (c) (5)

If access to spectrum is not available as determined by the above, and a minimum of 20 duplex system access channels are defined for the system, the time and spectrum windows with the lowest power level may be accessed. A device utilizing the provisions of this paragraph must have monitored all access channels defined for its system within the last 10 seconds and must verify, within the 20 milliseconds (40 milliseconds for devices designed to use a 20 milliseconds frame period) immediately preceding actual channel access that the detected power of the selected time and spectrum windows is no higher than the previously detected value. The power measurement resolution for this comparison must be accurate to within 6 dB. No device or group of cooperating devices located within 1 meter of each other shall during any frame period occupy more than 6 MHz of aggregate bandwidth, or alternatively, more than one third of the time and spectrum windows defined by the system.

5.14.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.14.3 Test Procedure

Reference to ANSI C63.17, Clause 7.3.2 and 7.3.3.

5.14.4 Test Result

Please refer to ANNEX A.13.

5.15 Random Waiting

5.15.1 Limit

FCC §15.323 (c) (6)

If the selected combined time and spectrum windows are unavailable, the device may either monitor and select different windows or seek to use the same windows after waiting an amount of time, randomly chosen from a uniform random distribution between 10 and 150 milliseconds, commencing when the channel becomes available.

5.15.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.15.3 Test Procedure

Reference to ANSI C63.17, Clause 8.1.3

5.15.4 Test Result

Please refer to ANNEX A.14.

5.16 Monitoring Bandwidth and Reaction Time

5.16.1 Limit

FCC §15.323 (c) (7)

The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended transmission and have a maximum reaction time less than $50 \times \text{SQRT}(1.25/\text{emission bandwidth in MHz})$ microseconds for signals at the applicable threshold level but shall not be required to be less than 50 microseconds. If a signal is detected that is 6 dB or more above the applicable threshold level, the maximum reaction time shall be $35 \times \text{SQRT}(1.25/\text{emission bandwidth in MHz})$ microseconds but shall not be required to be less than 35 microseconds.

5.16.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.16.3 Test Procedure

Reference to ANSI C63.17, Clause 7.4 and 7.5.

5.16.4 Test Result

Please refer to ANNEX A.15.

5.17 Monitoring Antenna

5.17.1 Limit

FCC §15.323 (c) (8)

The monitoring system shall use the same antenna used for transmission, or an antenna that yields equivalent reception at that location.

5.17.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.17.3 Test Procedure

Reference to ANSI C63.17, Clause 4.

5.17.4 Test Result

Please refer to ANNEX A.16.

5.18 Duplex System LBT

5.18.1 Limit

FCC §15.323 (c) (10)

An initiating device may attempt to establish a duplex connection by monitoring both its intended transmit and receive time and spectrum windows. If both the intended transmit and receive time and spectrum windows meet the access criteria, then the initiating device can initiate a transmission in the intended transmit time and spectrum window. If the power detected by the responding device can be decoded as a duplex connection signal from the initiating device, then the responding device may immediately begin transmitting on the receive time and spectrum window monitored by the initiating device.

5.18.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.18.3 Test Procedure

Reference to ANSI C63.17, Clause 8.3.

5.18.4 Test Result

Please refer to ANNEX A.17.

5.19 Co-located Device LBT

5.19.1 Limit

FCC §15.323 (c) (11)

An initiating device that is prevented from monitoring during its intended transmit window due to monitoring system blocking from the transmissions of a collocated (within one meter) transmitter of the same system, may monitor the portions of the time and spectrum windows in which they intend to receive over a period of at least 10 milliseconds. The monitored time and spectrum window must total at least 50 percent of the 10 millisecond frame interval and the monitored spectrum must be within 1.25 MHz of the center frequency of channel(s) already occupied by that device or collocated cooperating devices. If the access criteria is met for the intended receive time and spectrum window under the above conditions, then transmission in the intended transmit window by the initiating device may commence.

5.19.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.19.3 Test Procedure

Reference to ANSI C63.17, Clause 8.4.

5.19.4 Test Result

Please refer to ANNEX A.18.

5.20 Fair Access

5.20.1 Limit

FCC §15.323 (c) (12)

The provisions of (c)(10) or (c)(11) of this section shall not be used to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum to other devices.

5.20.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.20.3 Test Result

Please refer to ANNEX A.19.

ANNEX A TEST RESULT

A.1 Conducted Emissions

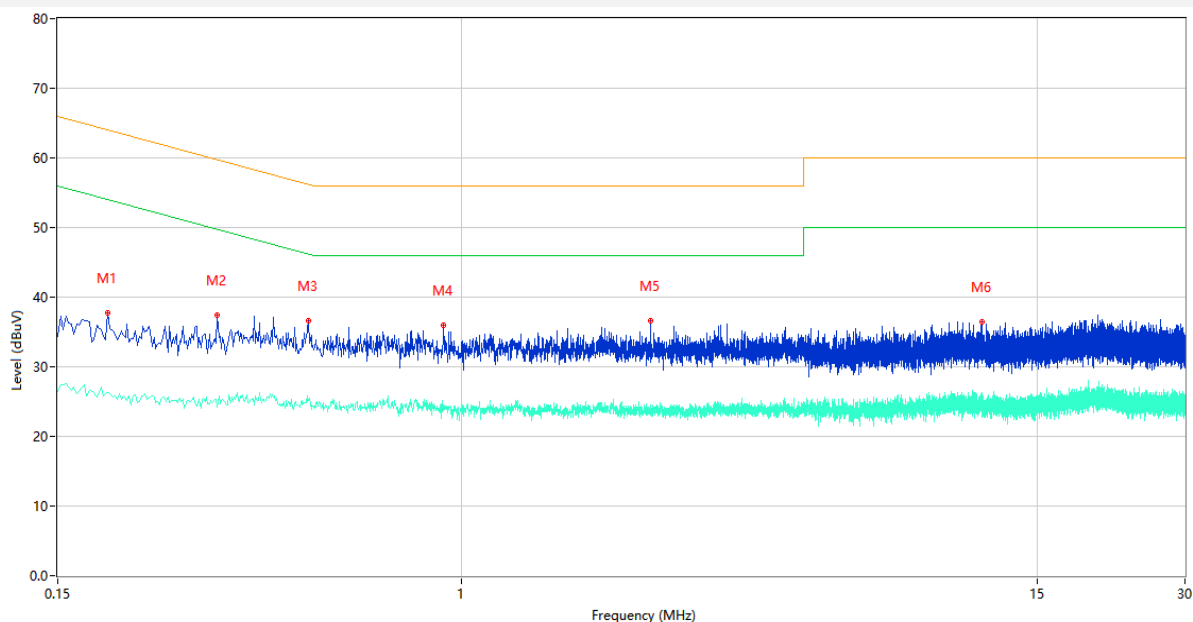
Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

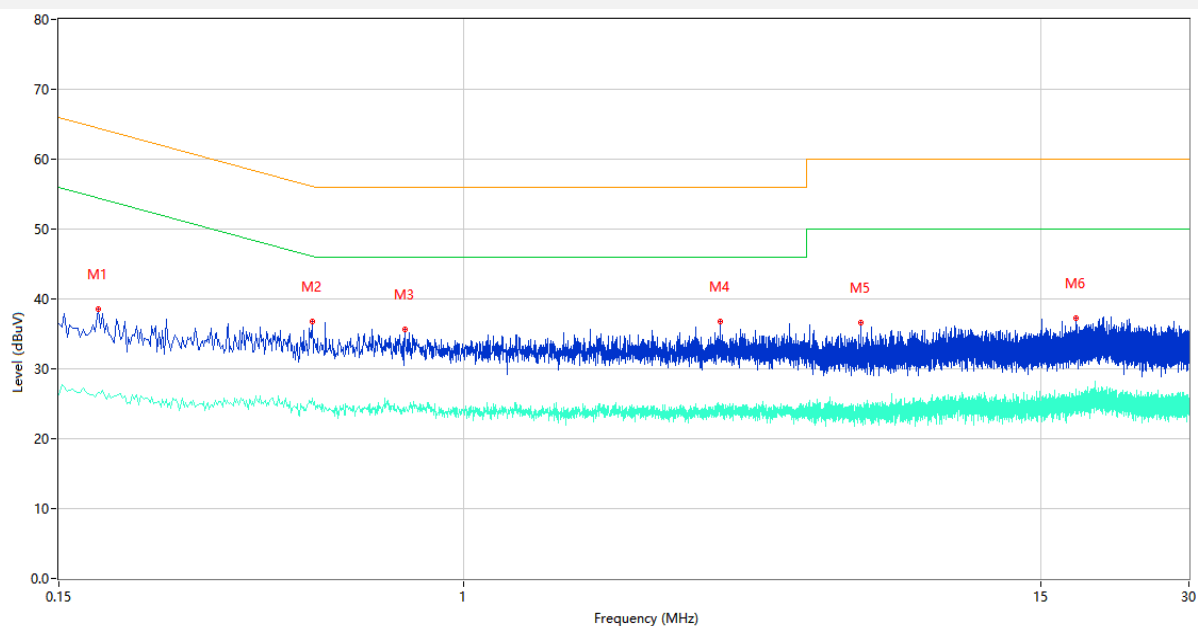
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.190	37.71	9.84	64.04	26.33	Peak	L	Pass
1**	0.190	26.30	9.84	54.04	27.74	AV	L	Pass
2	0.318	37.50	10.18	59.76	22.26	Peak	L	Pass
2**	0.318	24.15	10.18	49.76	25.61	AV	L	Pass
3	0.488	36.61	10.05	56.20	19.59	Peak	L	Pass
3**	0.488	25.09	10.05	46.20	21.11	AV	L	Pass
4	0.920	35.89	10.20	56.00	20.11	Peak	L	Pass
4**	0.920	23.65	10.20	46.00	22.35	AV	L	Pass
5	2.436	36.62	10.27	56.00	19.38	Peak	L	Pass
5**	2.436	24.57	10.27	46.00	21.43	AV	L	Pass
6	11.564	36.40	10.64	60.00	23.60	Peak	L	Pass
6**	11.564	25.52	10.64	50.00	24.48	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.180	38.52	9.84	64.49	25.97	Peak	N	Pass
1**	0.180	26.67	9.84	54.49	27.82	AV	N	Pass
2	0.492	36.85	10.05	56.13	19.28	Peak	N	Pass
2**	0.492	25.85	10.05	46.13	20.28	AV	N	Pass
3	0.760	35.57	10.31	56.00	20.43	Peak	N	Pass
3**	0.760	24.20	10.31	46.00	21.80	AV	N	Pass
4	3.330	36.78	10.46	56.00	19.22	Peak	N	Pass
4**	3.330	24.50	10.46	46.00	21.50	AV	N	Pass
5	6.432	36.59	10.41	60.00	23.41	Peak	N	Pass
5**	6.432	24.33	10.41	50.00	25.67	AV	N	Pass
6	17.682	37.29	11.21	60.00	22.71	Peak	N	Pass
6**	17.682	26.14	11.21	50.00	23.86	AV	N	Pass

A.2 Peak Transmit Power

Note: Conducted: $100\mu\text{W} \times \text{SQRT}(B)$ where B is the measured Emission Bandwidth in Hz

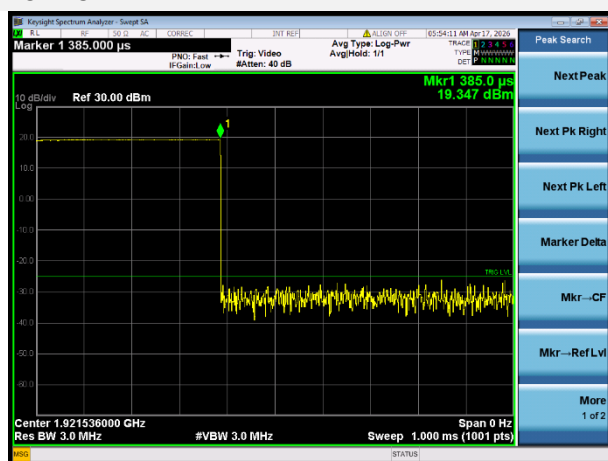
ANT1

Test Data

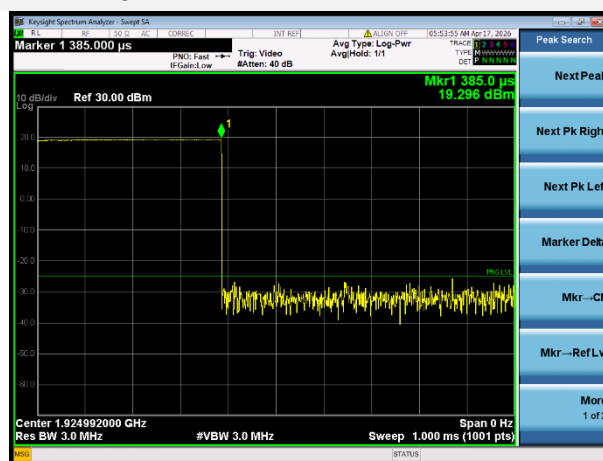
Channel	Measured Output Peak Power (dBm)	Maximum Antenna Gain (dBi)	Maximum Radiated Output Power Peak (dBm)	Limit (dBm)	Verdict
Low	19.35	-0.39	18.96	20.40	Pass
Middle	19.30	-0.39	18.91	20.40	Pass
High	19.30	-0.39	18.91	20.40	Pass

Test Plots

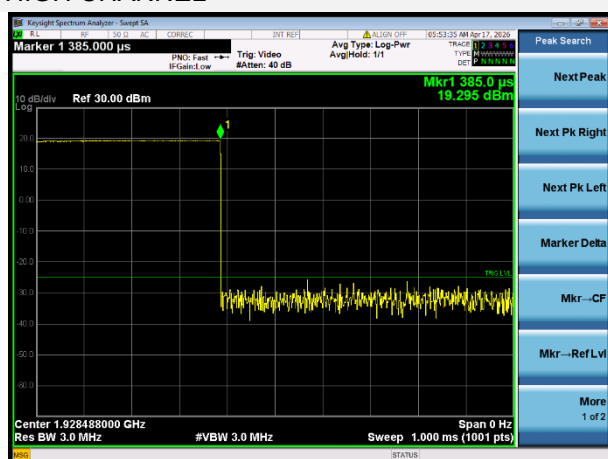
LOW CHANNEL



MIDDLE CHANNEL

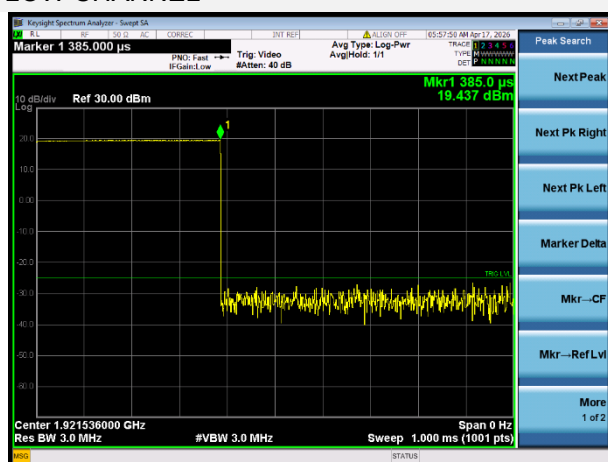
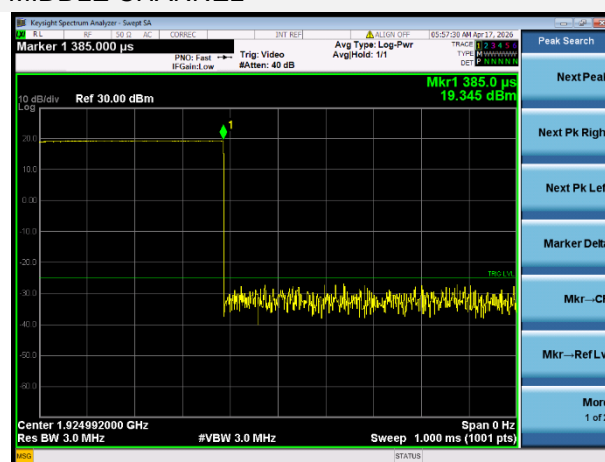
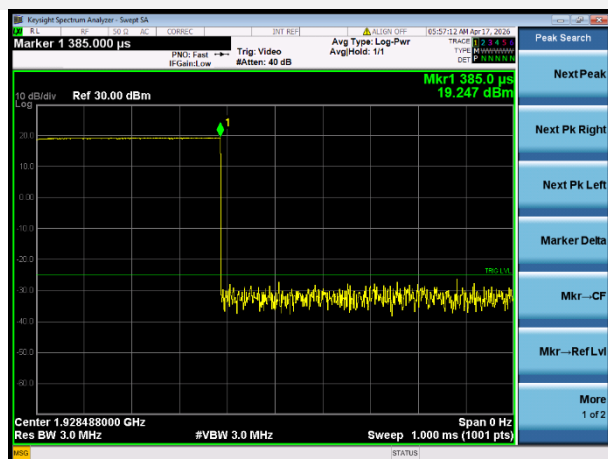


HIGH CHANNEL



ANT2**Test Data**

Channel	Measured Output Peak Power (dBm)	Maximum Antenna Gain (dBi)	Maximum Radiated Output Power Peak (dBm)	Limit (dBm)	Verdict
Low	19.44	-3.4	16.04	20.38	Pass
Middle	19.35	-3.4	15.95	20.38	Pass
High	19.25	-3.4	15.85	20.38	Pass

Test Plots**LOW CHANNEL****MIDDLE CHANNEL****HIGH CHANNEL**

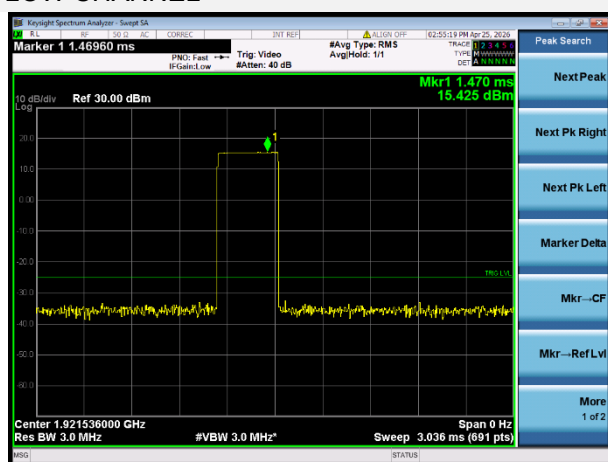
MIMO-ANT1

Test Data

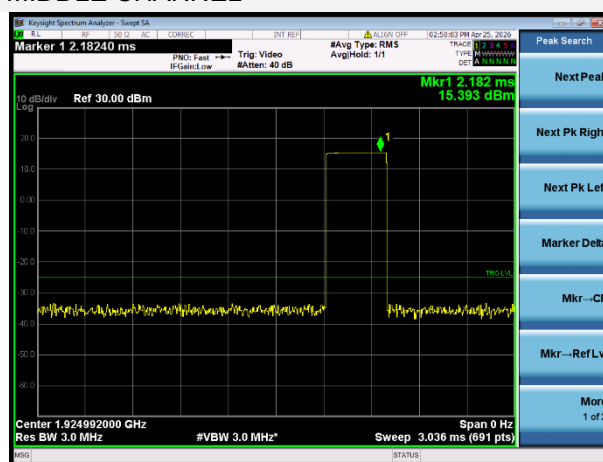
Channel	Measured Output Peak Power (dBm)	Maximum Antenna Gain (dBi)	Maximum Radiated Output Power Peak (dBm)	Limit (dBm)	Verdict
Low	15.43	-0.39	15.04	20.40	Pass
Middle	15.39	-0.39	15.00	20.40	Pass
High	15.38	-0.39	14.99	20.40	Pass

Test Plots

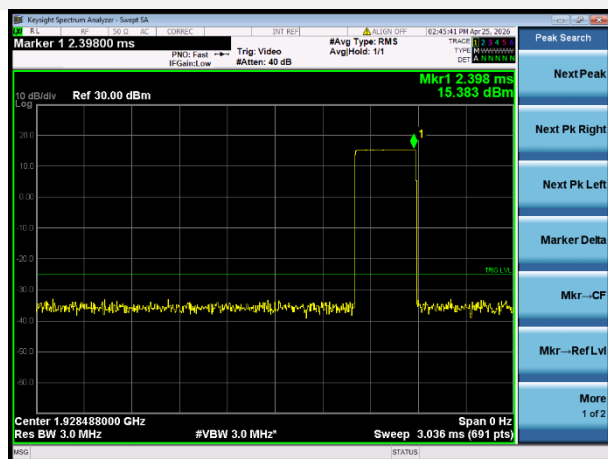
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



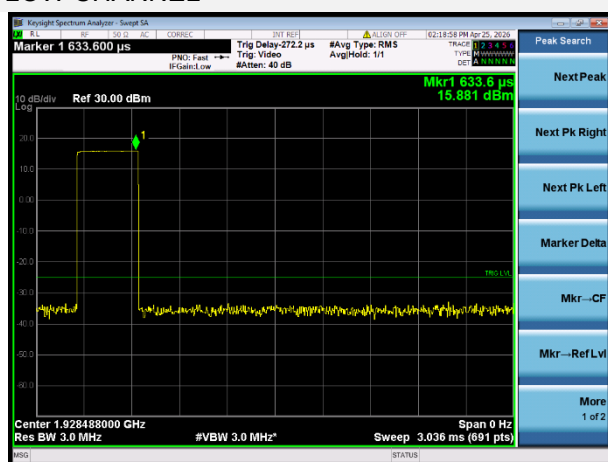
MIMO-ANT2

Test Data

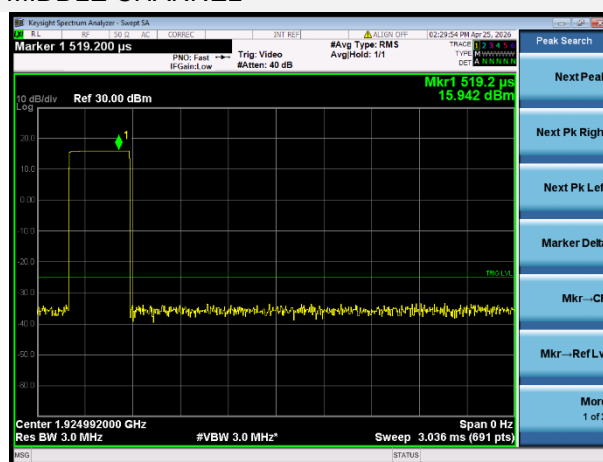
Channel	Measured Output Peak Power (dBm)	Maximum Antenna Gain (dBi)	Maximum Radiated Output Power Peak (dBm)	Limit (dBm)	Verdict
Low	15.88	-3.4	12.48	20.38	Pass
Middle	15.94	-3.4	12.54	20.38	Pass
High	16.04	-3.4	12.64	20.38	Pass

Test Plots

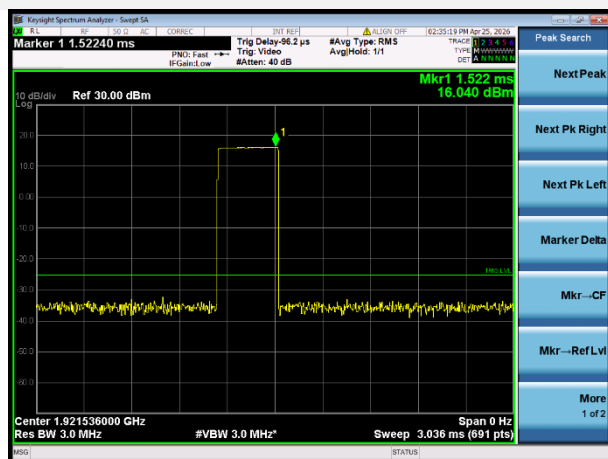
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



MIMOTest Data

Channel	Maximum Radiated Output Power Peak (dBm)	Limit (dBm)	Verdict
Low	16.96	20.38	Pass
Middle	16.95	20.38	Pass
High	16.98	20.38	Pass

A.3 Power Spectral Density (PSD)

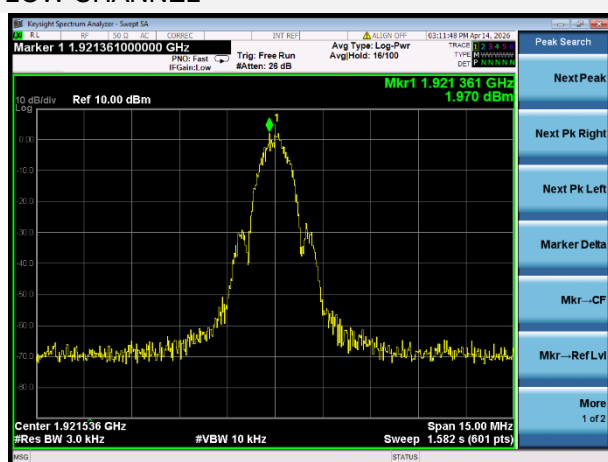
ANT1

Test Data

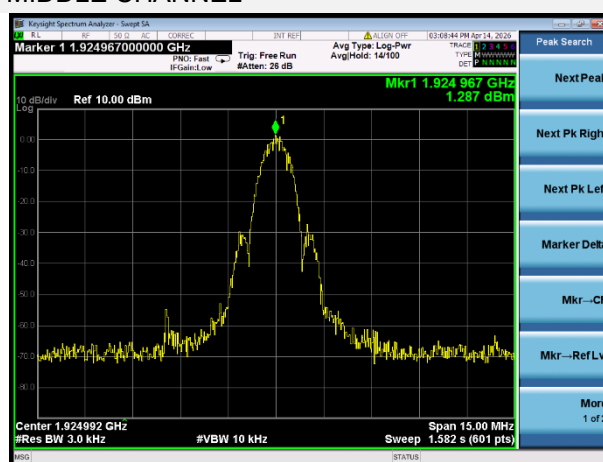
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	1.97	4.77	Pass
Middle	1.29	4.77	Pass
High	1.43	4.77	Pass

Test Plots

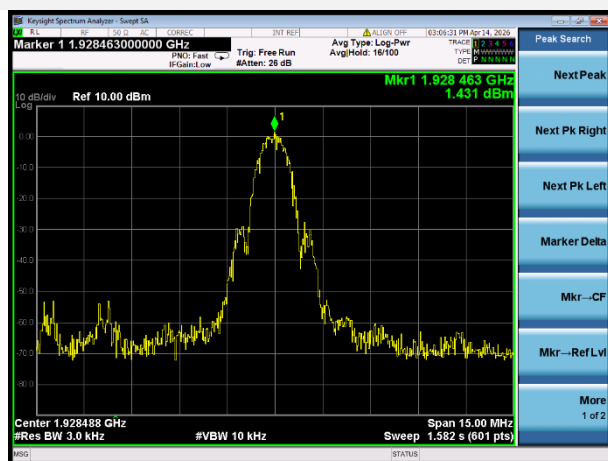
LOW CHANNEL



MIDDLE CHANNEL

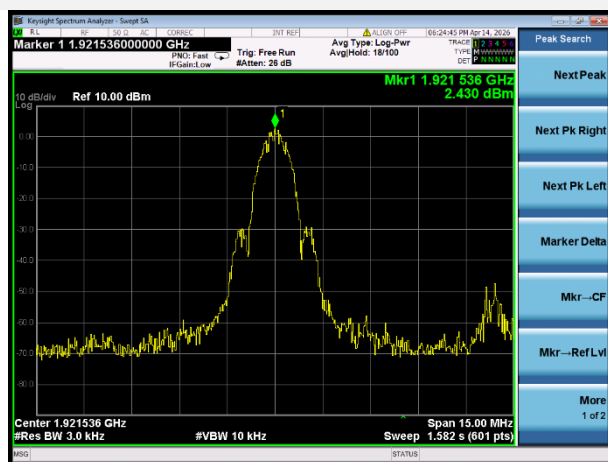
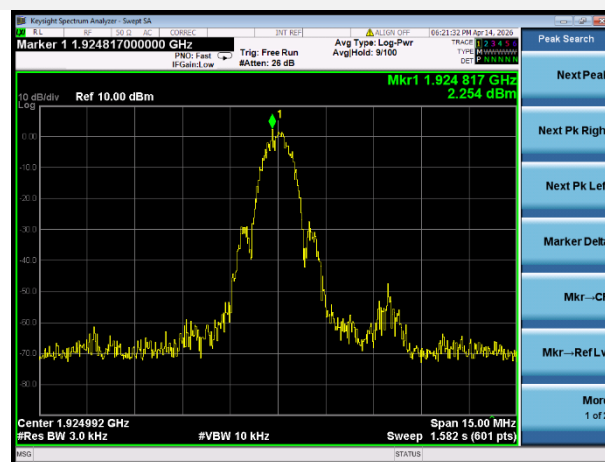
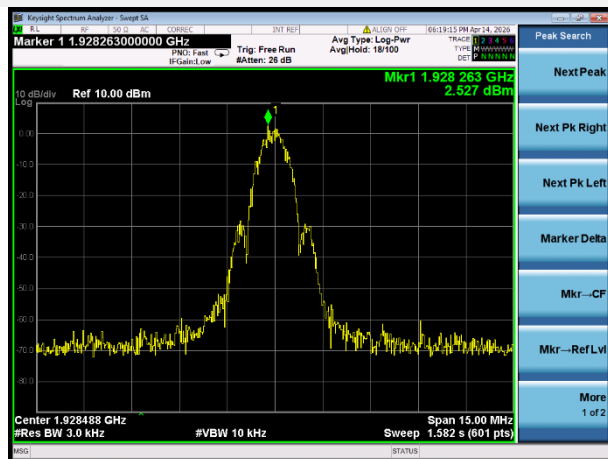


HIGH CHANNEL



ANT2**Test Data**

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	2.43	4.77	Pass
Middle	2.25	4.77	Pass
High	2.53	4.77	Pass

Test Plots**LOW CHANNEL****MIDDLE CHANNEL****HIGH CHANNEL**

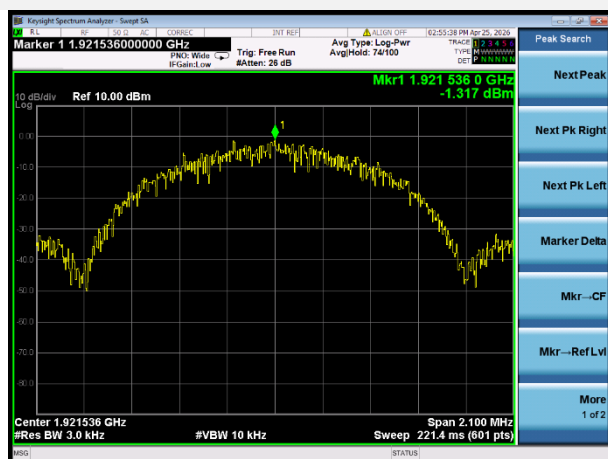
MIMO-ANT1

Test Data

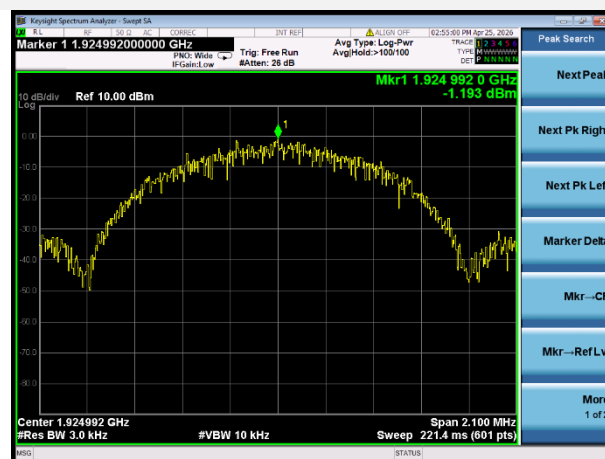
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-1.32	4.77	Pass
Middle	-1.19	4.77	Pass
High	-1.06	4.77	Pass

Test Plots

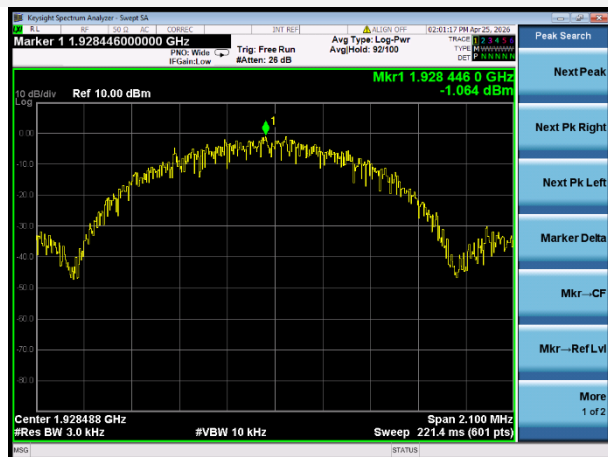
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



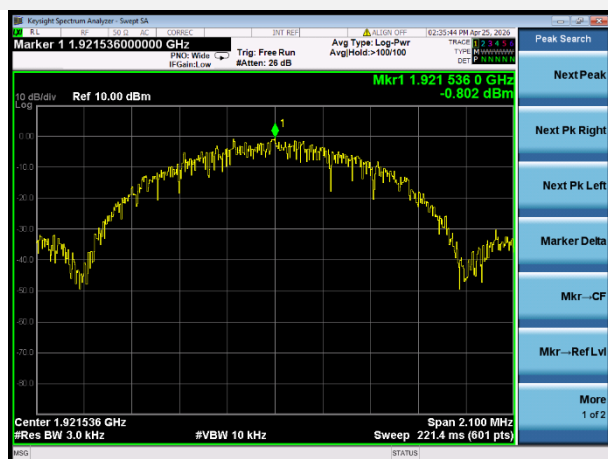
MIMO-ANT2

Test Data

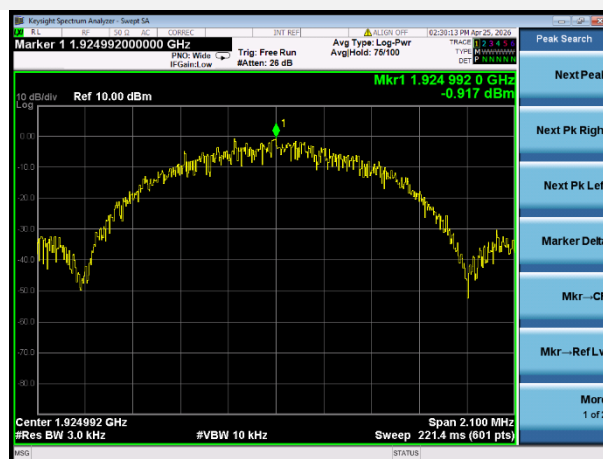
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-0.80	4.77	Pass
Middle	-0.92	4.77	Pass
High	-1.04	4.77	Pass

Test Plots

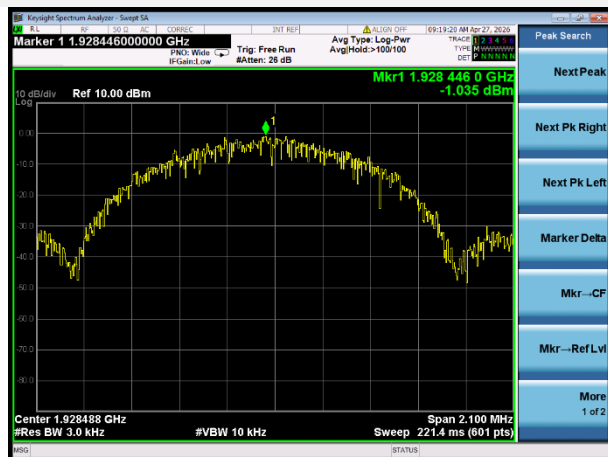
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



MIMOTest Data

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	1.96	4.77	Pass
Middle	1.96	4.77	Pass
High	1.96	4.77	Pass

A.4 Emission Bandwidth

ANT1

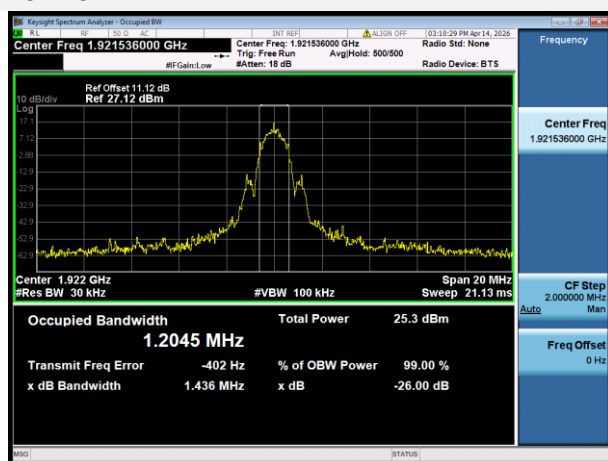
Test Data

Channel	Emission Bandwidth B (MHz)	99% Bandwidth (MHz)	Verdict
Low	1.436	1.214	Pass
Middle	1.456	1.227	Pass
High	1.422	1.218	Pass

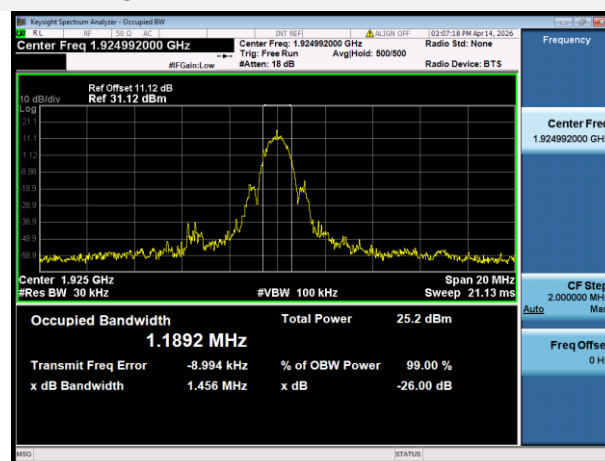
Test Plots

Emission Bandwidth B

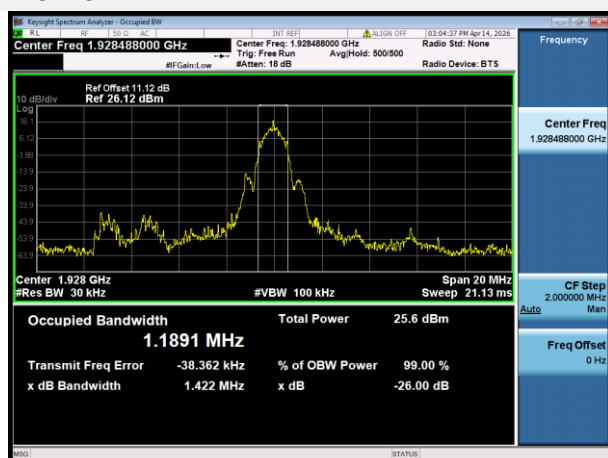
LOW CHANNEL



MIDDLE CHANNEL

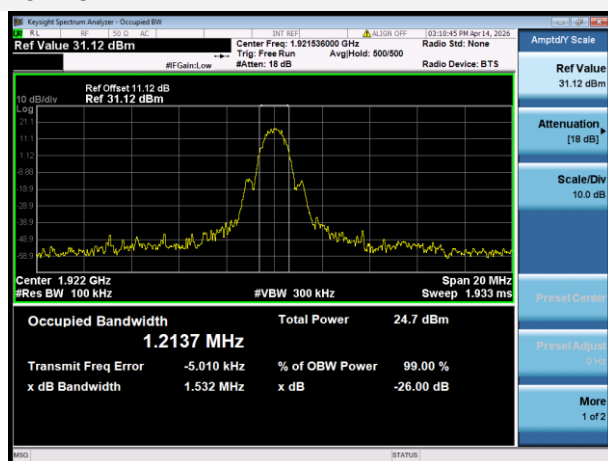


HIGH CHANNEL

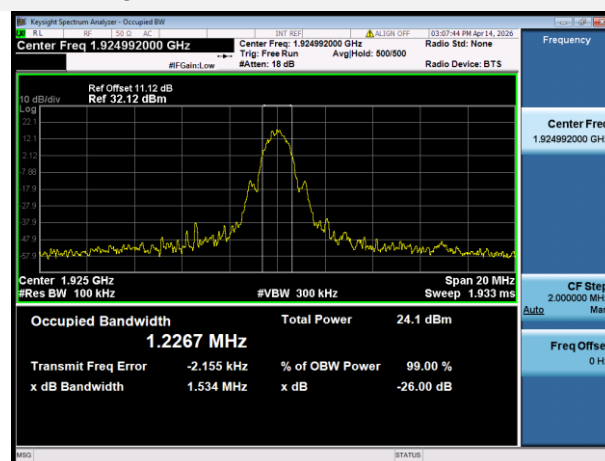


99% Bandwidth

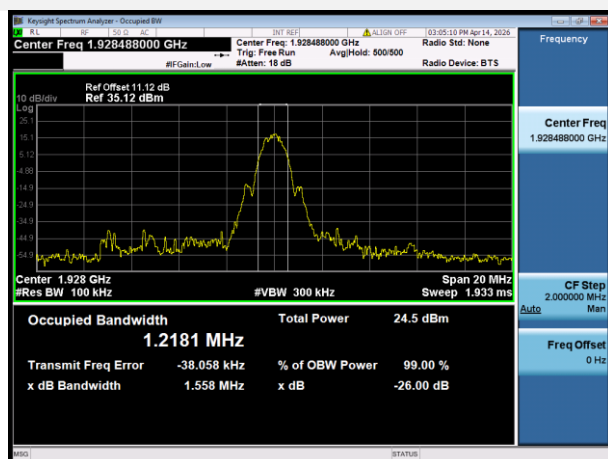
LOW CHANNEL



MIDDLE CHANNEL

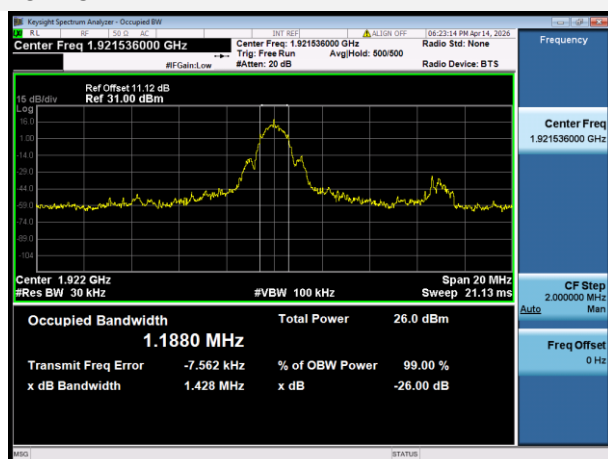
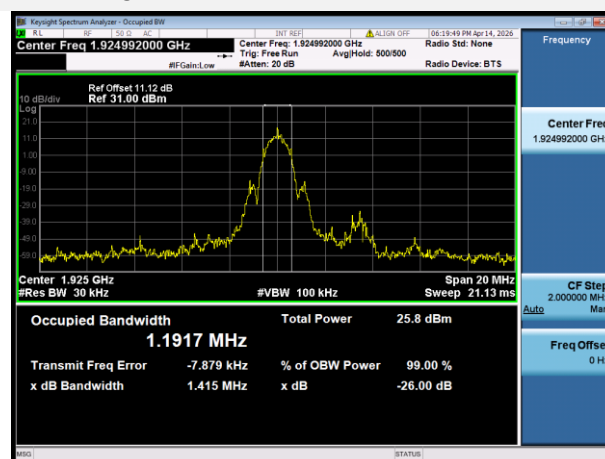
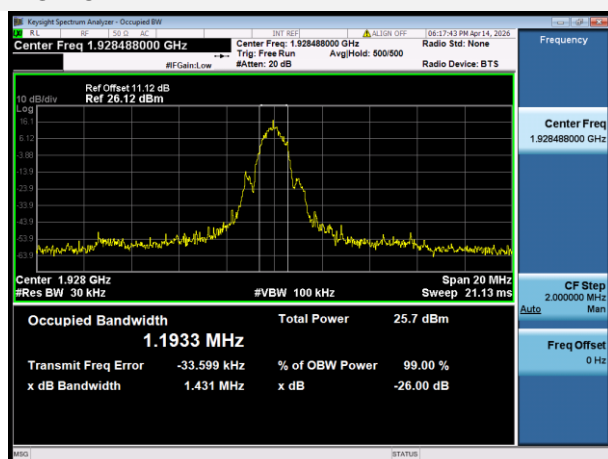


HIGH CHANNEL



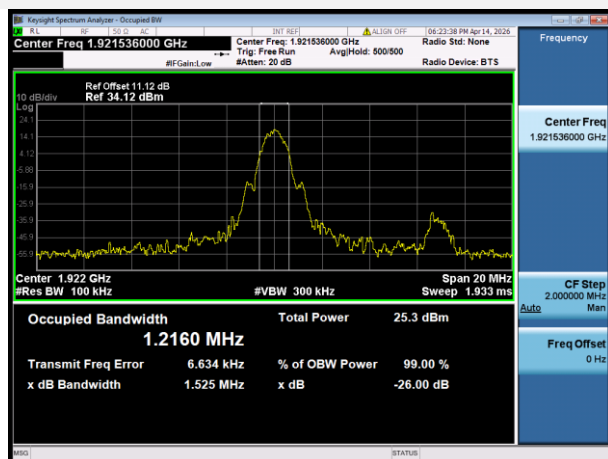
ANT2**Test Data**

Channel	Emission Bandwidth B (MHz)	99% Bandwidth (MHz)	Verdict
Low	1.428	1.216	Pass
Middle	1.415	1.209	Pass
High	1.431	1.220	Pass

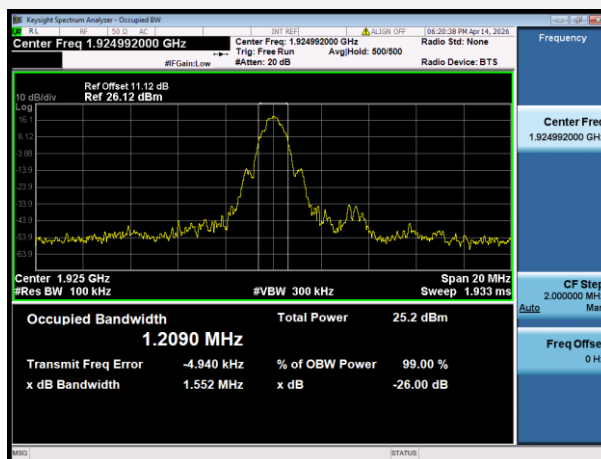
Test Plots**Emission Bandwidth B****LOW CHANNEL****MIDDLE CHANNEL****HIGH CHANNEL**

99% Bandwidth

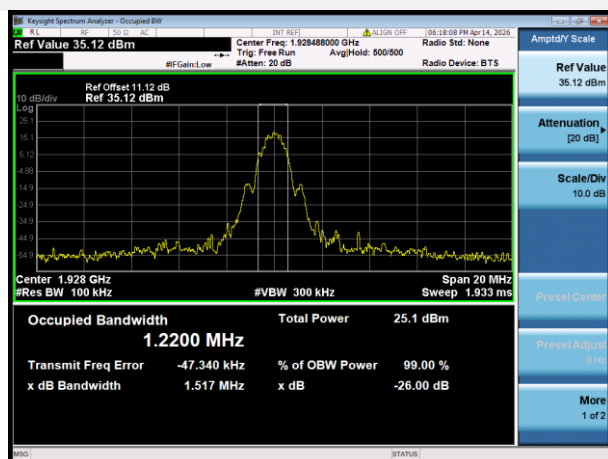
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



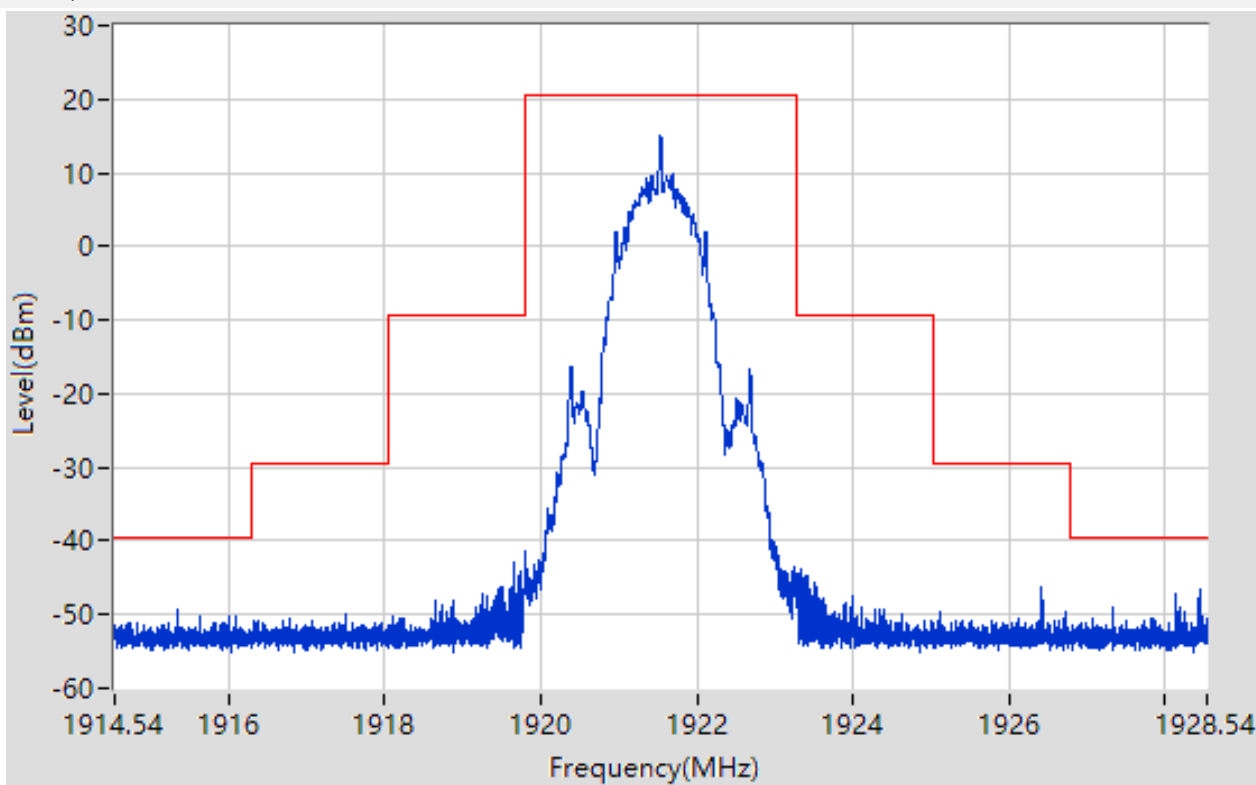
A.5 Emission Inside and Out the sub-band

ANT1

Test Data and Plots

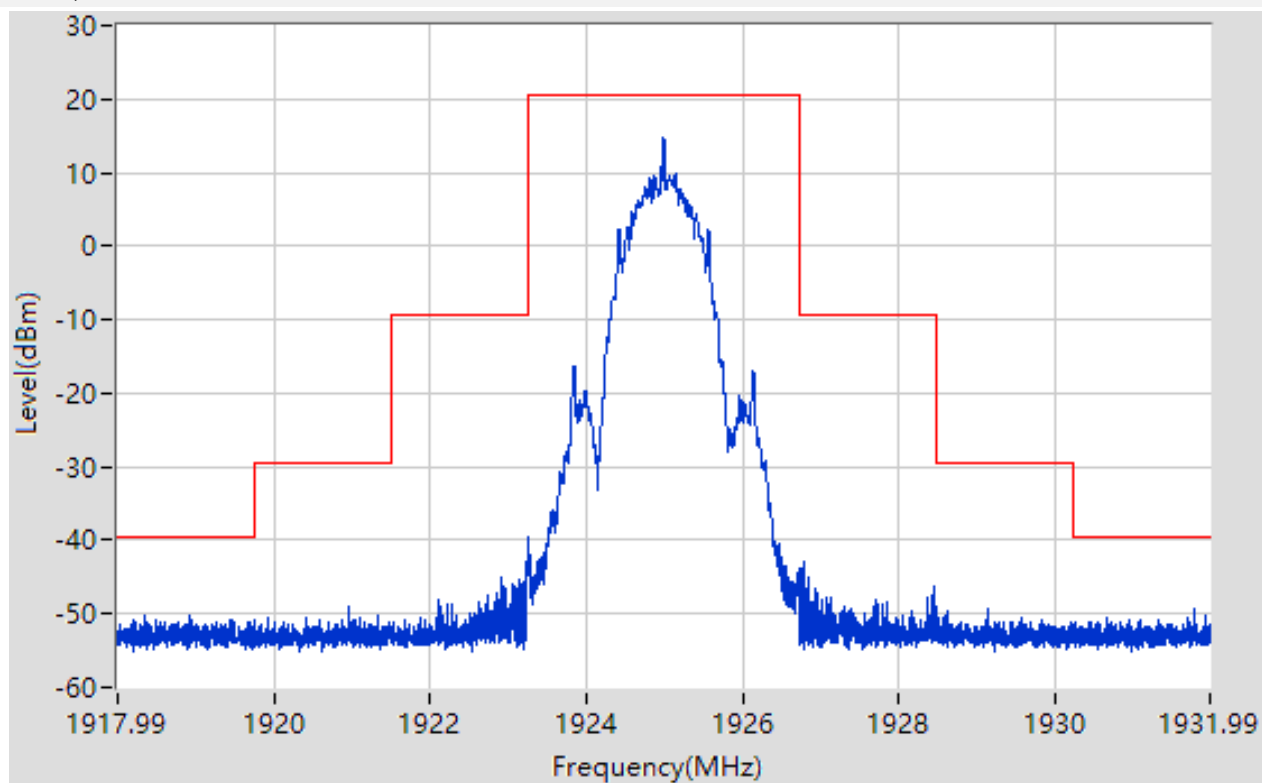
In-Band Emissions

GFSK, Low Channel



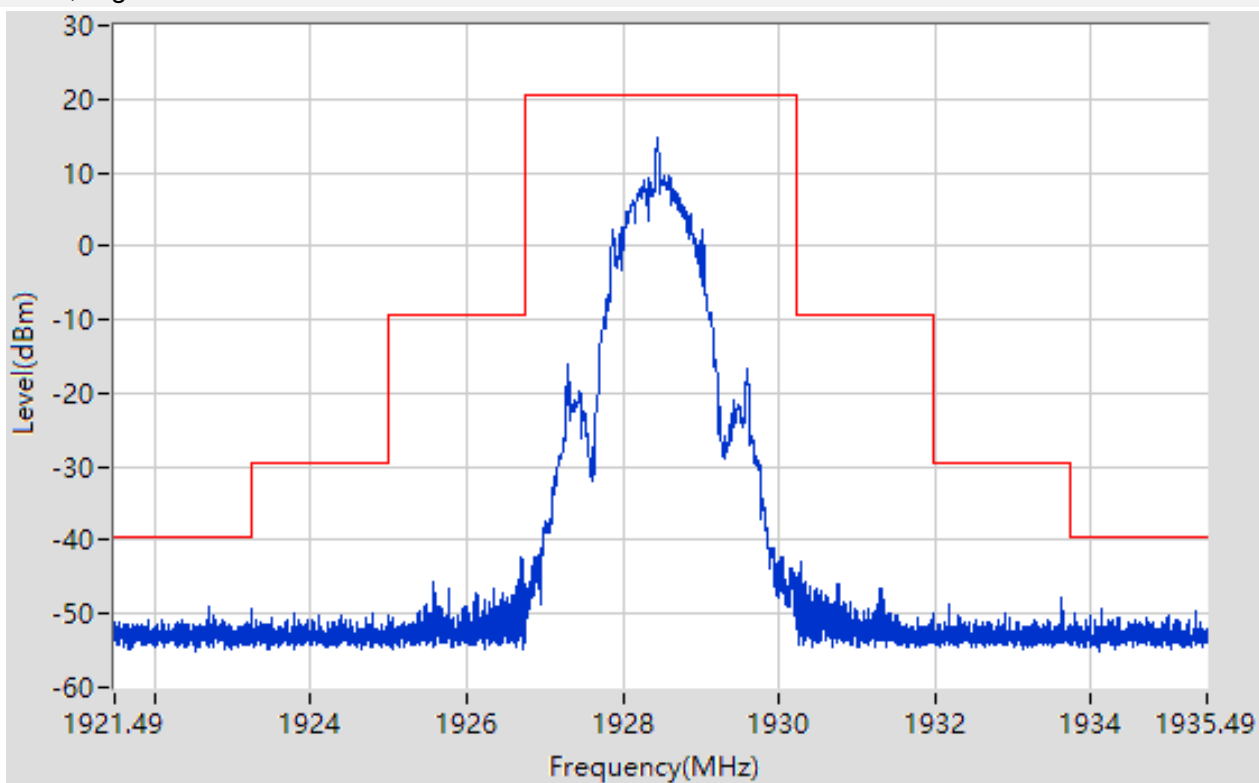
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1914.536	1916.286	0.03	Peak	1915.353	-49.26	-39.5	Pass	691
1916.286	1918.036	0.03	Peak	1917.483	-50.01	-29.5	Pass	691
1918.036	1919.786	0.03	Peak	1919.639	-42.87	-9.5	Pass	691
1919.786	1921.536	0.03	Peak	1921.531	14.91	20.5	Pass	691
1921.536	1923.286	0.03	Peak	1921.536	14.66	20.5	Pass	691
1923.286	1925.036	0.03	Peak	1923.319	-43.85	-9.5	Pass	691
1925.036	1926.786	0.03	Peak	1926.421	-46.36	-29.5	Pass	691
1926.786	1928.536	0.03	Peak	1928.447	-46.62	-39.5	Pass	691

GFSK, Middle Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1917.992	1919.742	0.03	Peak	1918.905	-50.22	-39.5	Pass	691
1919.742	1921.492	0.03	Peak	1920.942	-48.97	-29.5	Pass	691
1921.492	1923.242	0.03	Peak	1923.239	-42.34	-9.5	Pass	691
1923.242	1924.992	0.03	Peak	1924.987	14.83	20.5	Pass	691
1924.992	1926.742	0.03	Peak	1924.992	14.41	20.5	Pass	691
1926.742	1928.492	0.03	Peak	1926.8	-42.94	-9.5	Pass	691
1928.492	1930.242	0.03	Peak	1929.139	-49.37	-29.5	Pass	691
1930.242	1931.992	0.03	Peak	1931.787	-49.37	-39.5	Pass	691

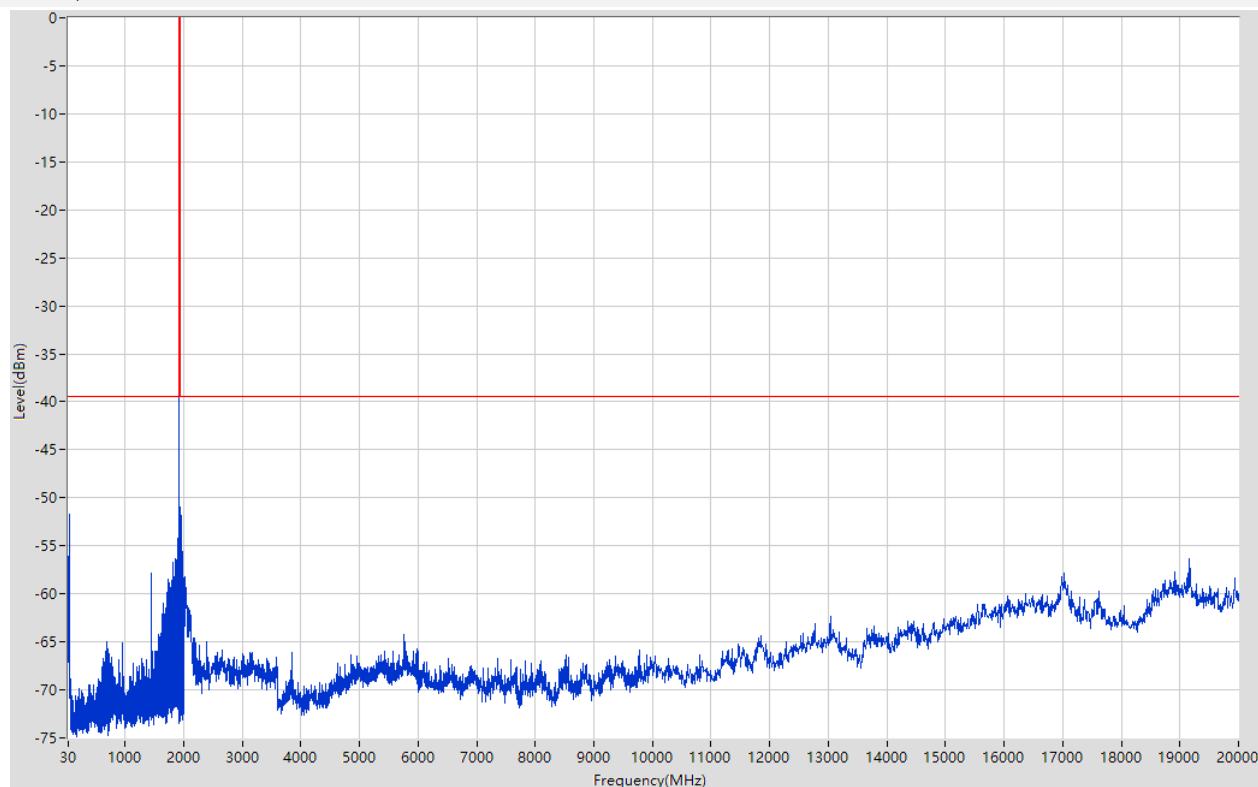
GFSK, High Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1921.488	1923.238	0.03	Peak	1922.69	-48.96	-39.5	Pass	691
1923.238	1924.988	0.03	Peak	1923.253	-49.44	-29.5	Pass	691
1924.988	1926.738	0.03	Peak	1926.705	-42.45	-9.5	Pass	691
1926.738	1928.488	0.03	Peak	1928.445	14.61	20.5	Pass	691
1928.488	1930.238	0.03	Peak	1928.589	9.64	20.5	Pass	691
1930.238	1931.988	0.03	Peak	1930.286	-42.87	-9.5	Pass	691
1931.988	1933.738	0.03	Peak	1933.609	-47.85	-29.5	Pass	691
1933.738	1935.488	0.03	Peak	1934.136	-49.26	-39.5	Pass	691

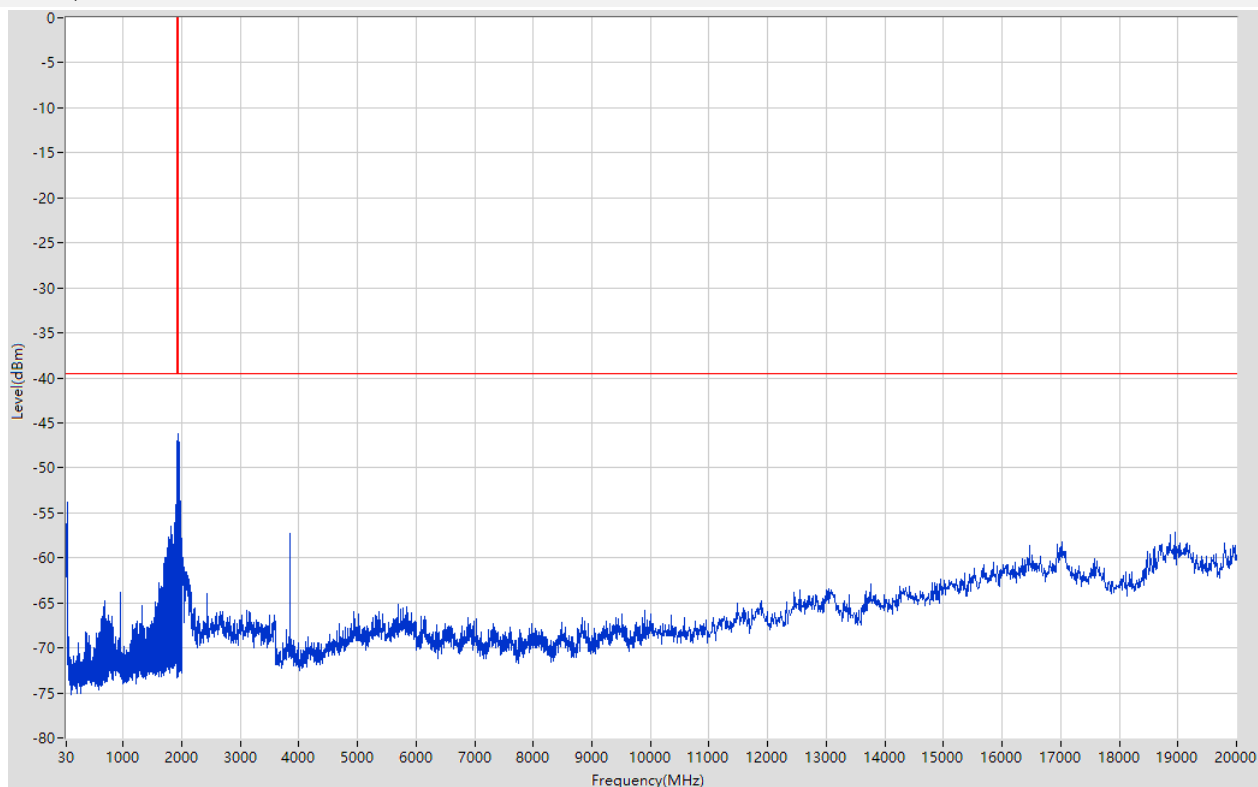
Out of Band Emissions

GFSK, Low Channel



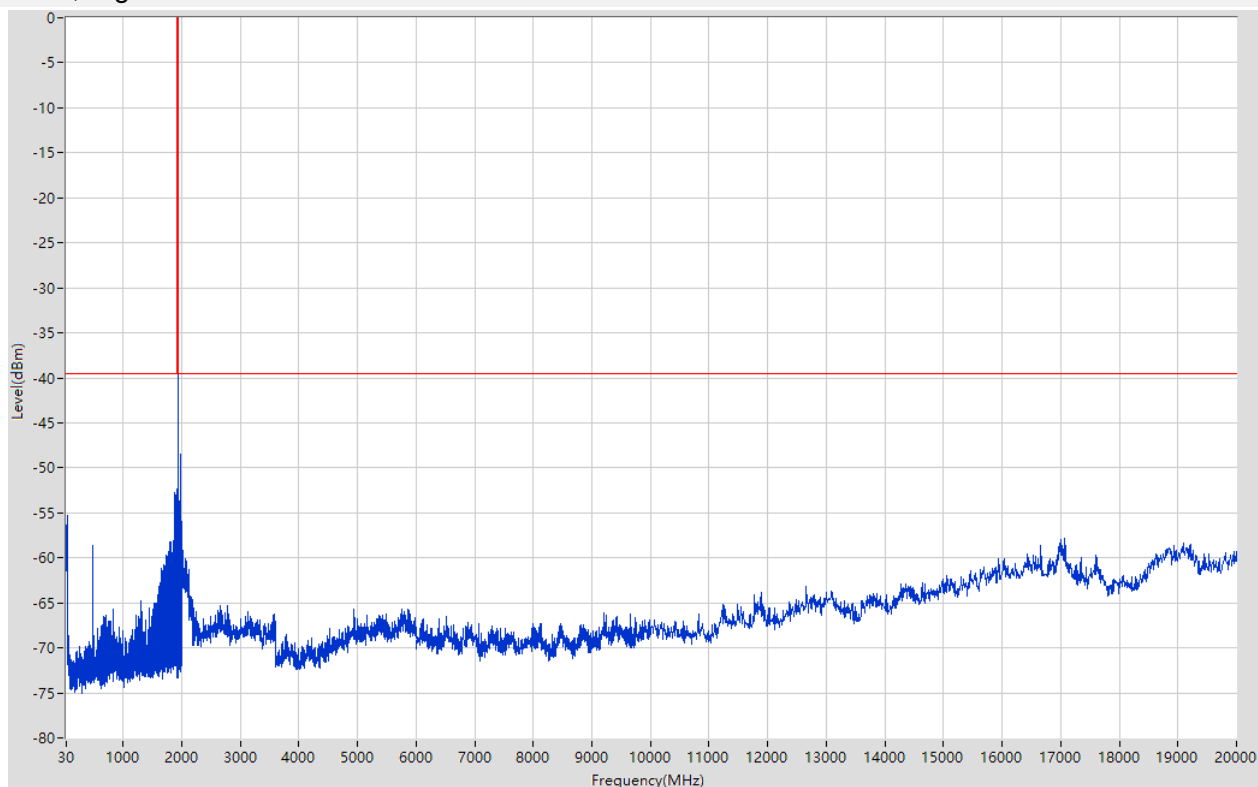
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	44.55	-51.75	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1900.985	-54.28	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.654	-39.62	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.798	-34.08	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.123	-53.37	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1932.494	-50.97	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1963.28	-51.83	-39.5	Pass	1001
2000	6000	0.03	Peak	2020	-58.27	-39.5	Pass	1001
6000	10000	0.03	Peak	9776	-65.83	-39.5	Pass	1001
10000	20000	0.03	Peak	19160	-56.32	-39.5	Pass	1001

GFSK, Middle Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	43.58	-53.86	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1913.83	-51.97	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.644	-49.43	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.809	-47.04	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.166	-46.24	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.886	-48.59	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1966.453	-47.18	-39.5	Pass	1001
2000	6000	0.03	Peak	3852	-57.28	-39.5	Pass	1001
6000	10000	0.03	Peak	9892	-65.87	-39.5	Pass	1001
10000	20000	0.03	Peak	18950	-57.12	-39.5	Pass	1001

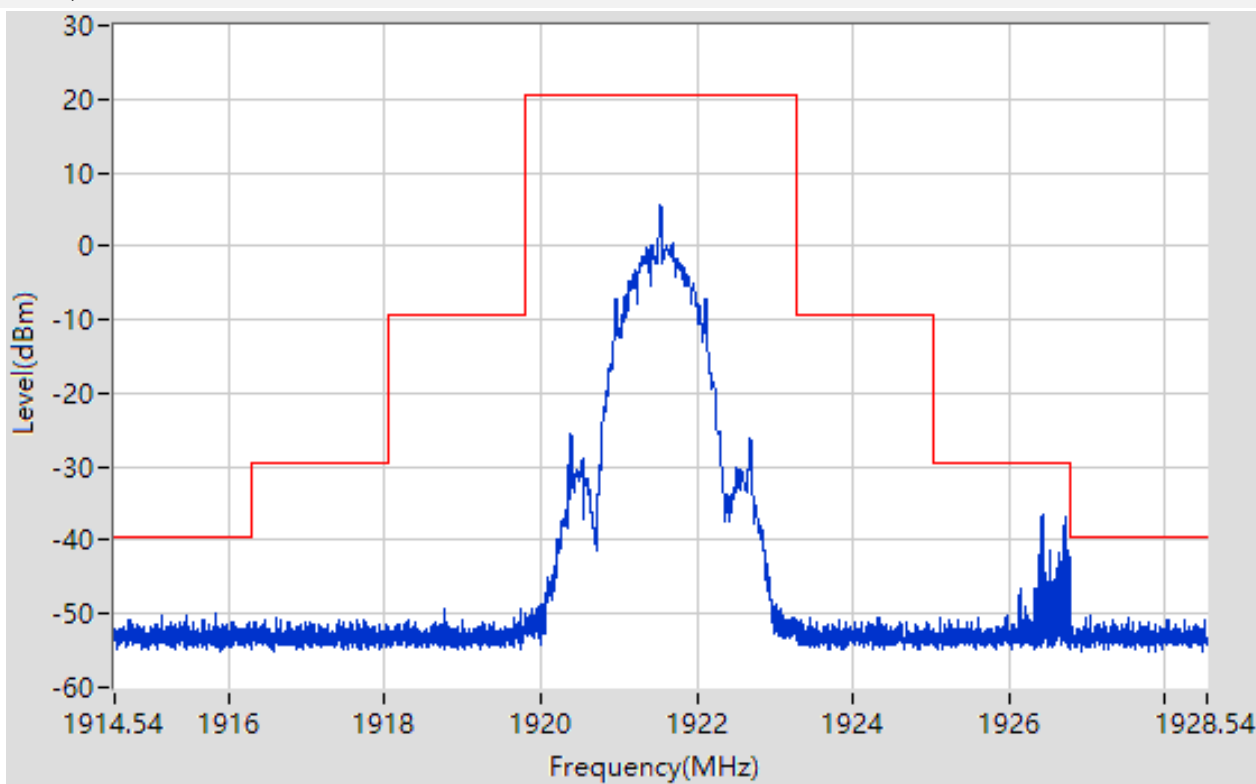
GFSK, High Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	44.55	-55.32	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1887.223	-52.76	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.684	-52.74	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.828	-52.33	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.258	-35.89	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.311	-39.02	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1969.895	-48.44	-39.5	Pass	1001
2000	6000	0.03	Peak	2000	-59.08	-39.5	Pass	1001
6000	10000	0.03	Peak	9212	-66.13	-39.5	Pass	1001
10000	20000	0.03	Peak	17070	-57.8	-39.5	Pass	1001

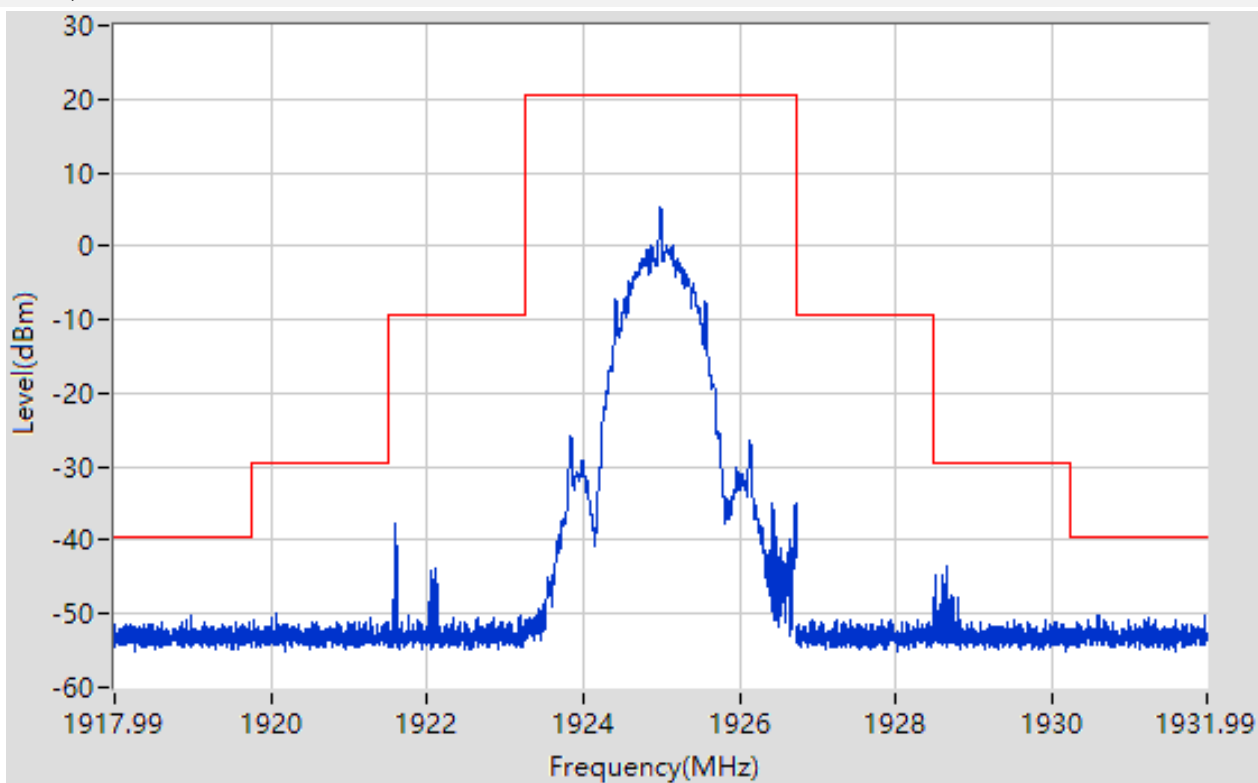
ANT2Test Data and PlotsIn-Band Emissions

GFSK, Low Channel



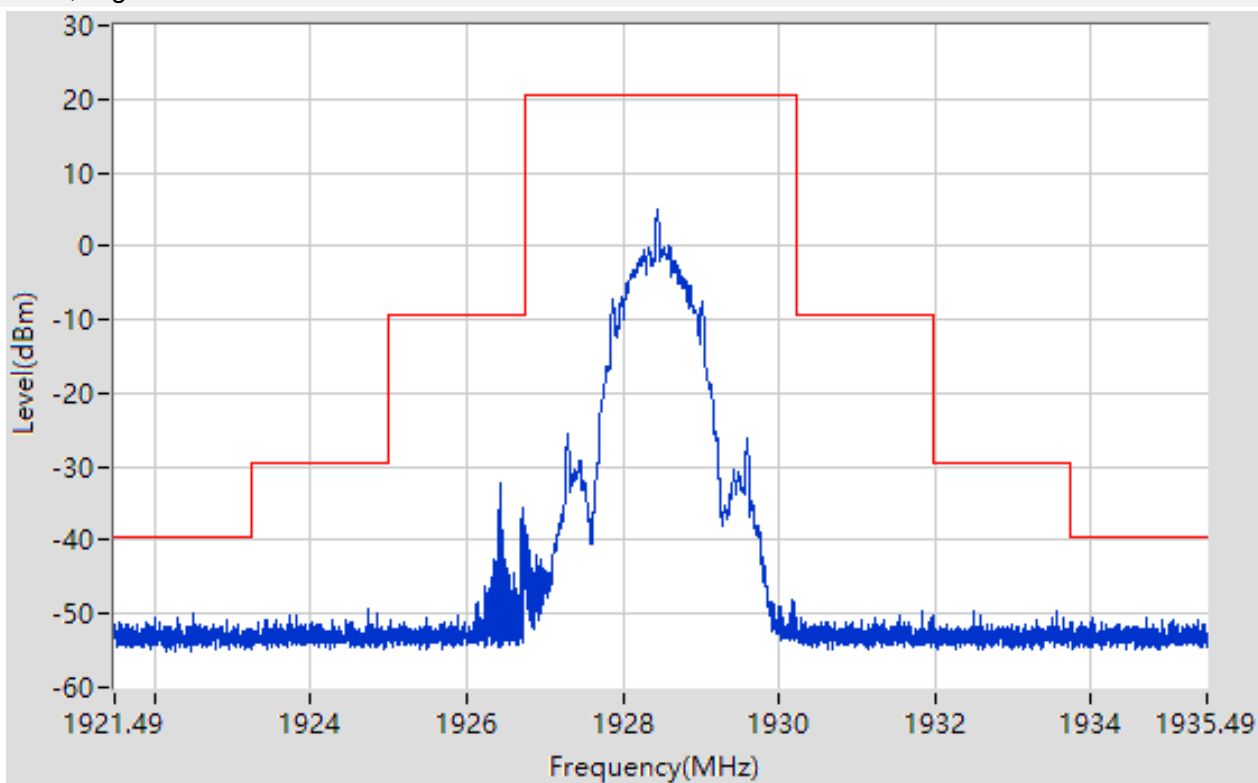
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1914.536	1916.286	0.03	Peak	1915.819	-50.06	-39.5	Pass	691
1916.286	1918.036	0.03	Peak	1916.6	-50.62	-29.5	Pass	691
1918.036	1919.786	0.03	Peak	1919.733	-49.36	-9.5	Pass	691
1919.786	1921.536	0.03	Peak	1921.533	5.5	20.5	Pass	691
1921.536	1923.286	0.03	Peak	1921.536	5.31	20.5	Pass	691
1923.286	1925.036	0.03	Peak	1924.349	-50.57	-9.5	Pass	691
1925.036	1926.786	0.03	Peak	1926.439	-36.62	-29.5	Pass	691
1926.786	1928.536	0.03	Peak	1927.042	-50.13	-39.5	Pass	691

GFSK, Middle Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1917.992	1919.742	0.03	Peak	1918.979	-50.25	-39.5	Pass	691
1919.742	1921.492	0.03	Peak	1920.051	-49.94	-29.5	Pass	691
1921.492	1923.242	0.03	Peak	1921.596	-37.76	-9.5	Pass	691
1923.242	1924.992	0.03	Peak	1924.989	5.25	20.5	Pass	691
1924.992	1926.742	0.03	Peak	1924.992	5.11	20.5	Pass	691
1926.742	1928.492	0.03	Peak	1927.947	-50.72	-9.5	Pass	691
1928.492	1930.242	0.03	Peak	1928.659	-43.65	-29.5	Pass	691
1930.242	1931.992	0.03	Peak	1931.974	-50.28	-39.5	Pass	691

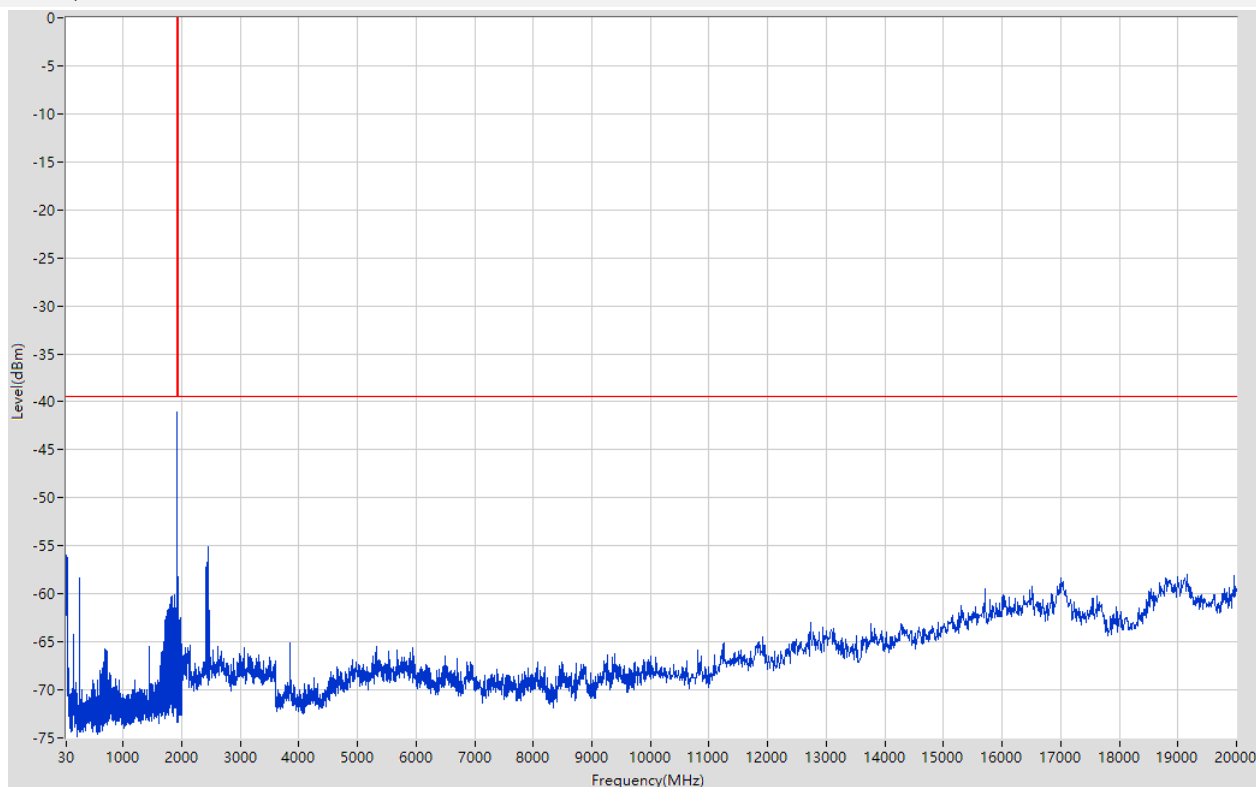
GFSK, High Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1921.488	1923.238	0.03	Peak	1922.49	-50.05	-39.5	Pass	691
1923.238	1924.988	0.03	Peak	1924.745	-49.18	-29.5	Pass	691
1924.988	1926.738	0.03	Peak	1926.429	-32.25	-9.5	Pass	691
1926.738	1928.488	0.03	Peak	1928.442	5.13	20.5	Pass	691
1928.488	1930.238	0.03	Peak	1928.597	0.02	20.5	Pass	691
1930.238	1931.988	0.03	Peak	1931.831	-49.69	-9.5	Pass	691
1931.988	1933.738	0.03	Peak	1932.498	-49.54	-29.5	Pass	691
1933.738	1935.488	0.03	Peak	1934.009	-50.41	-39.5	Pass	691

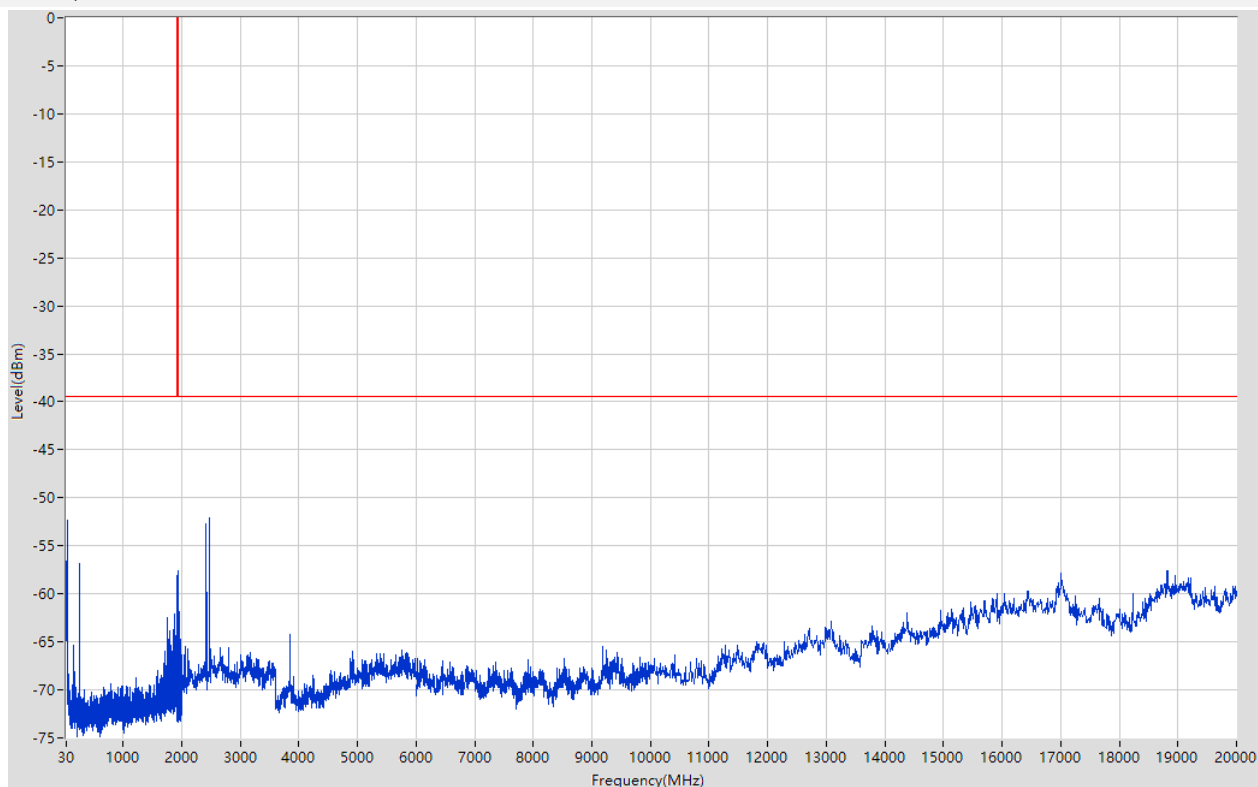
Out of Band Emissions

GFSK, Low Channel



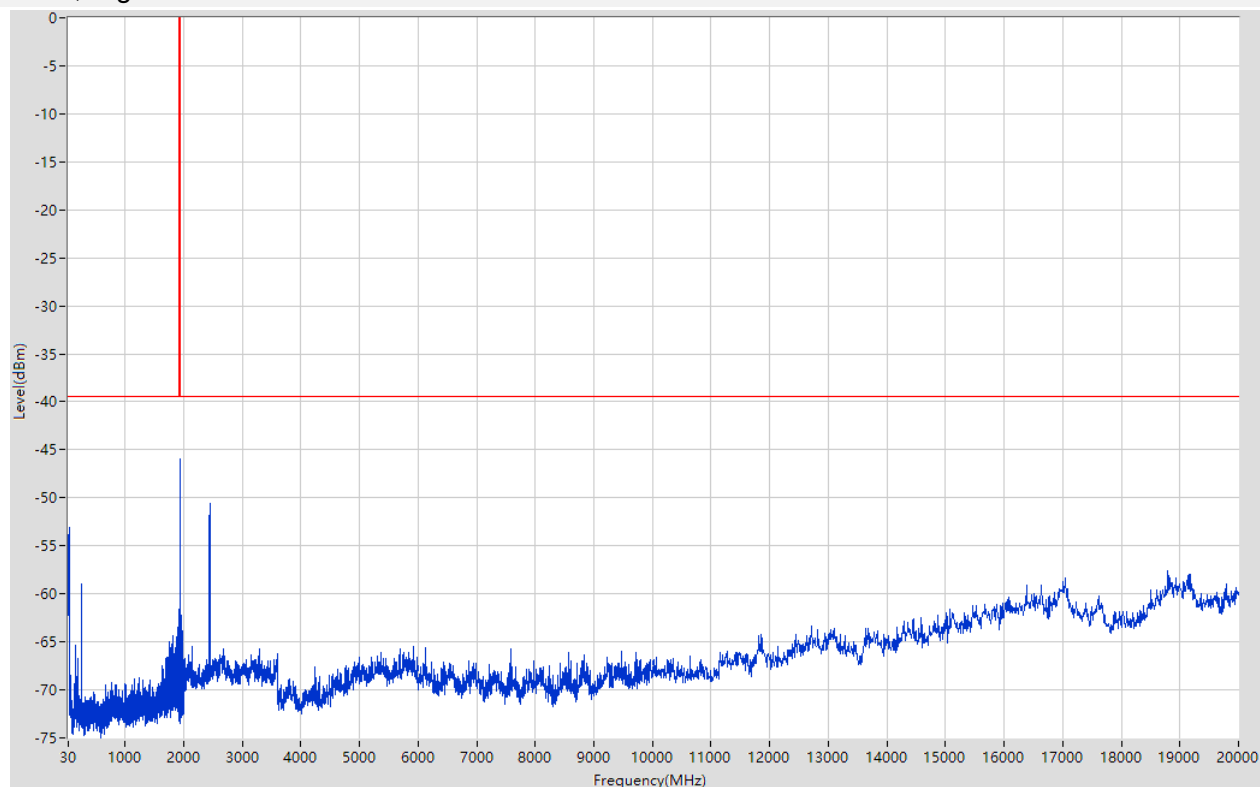
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	32.91	-55.99	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1916.583	-58.8	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.645	-48.22	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.798	-41.13	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.355	-59.71	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.903	-58.26	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1936.483	-60.36	-39.5	Pass	1001
2000	6000	0.03	Peak	2460	-55.07	-39.5	Pass	1001
6000	10000	0.03	Peak	9392	-66.28	-39.5	Pass	1001
10000	20000	0.03	Peak	19150	-58.02	-39.5	Pass	1001

GFSK, Middle Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	43.58	-52.37	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1882.635	-62.09	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.649	-58.14	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.956	-59.27	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.76	-60.6	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.899	-57.61	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1966.588	-61.89	-39.5	Pass	1001
2000	6000	0.03	Peak	2472	-52.13	-39.5	Pass	1001
6000	10000	0.03	Peak	9180	-65.5	-39.5	Pass	1001
10000	20000	0.03	Peak	18820	-57.58	-39.5	Pass	1001

GFSK, High Channel



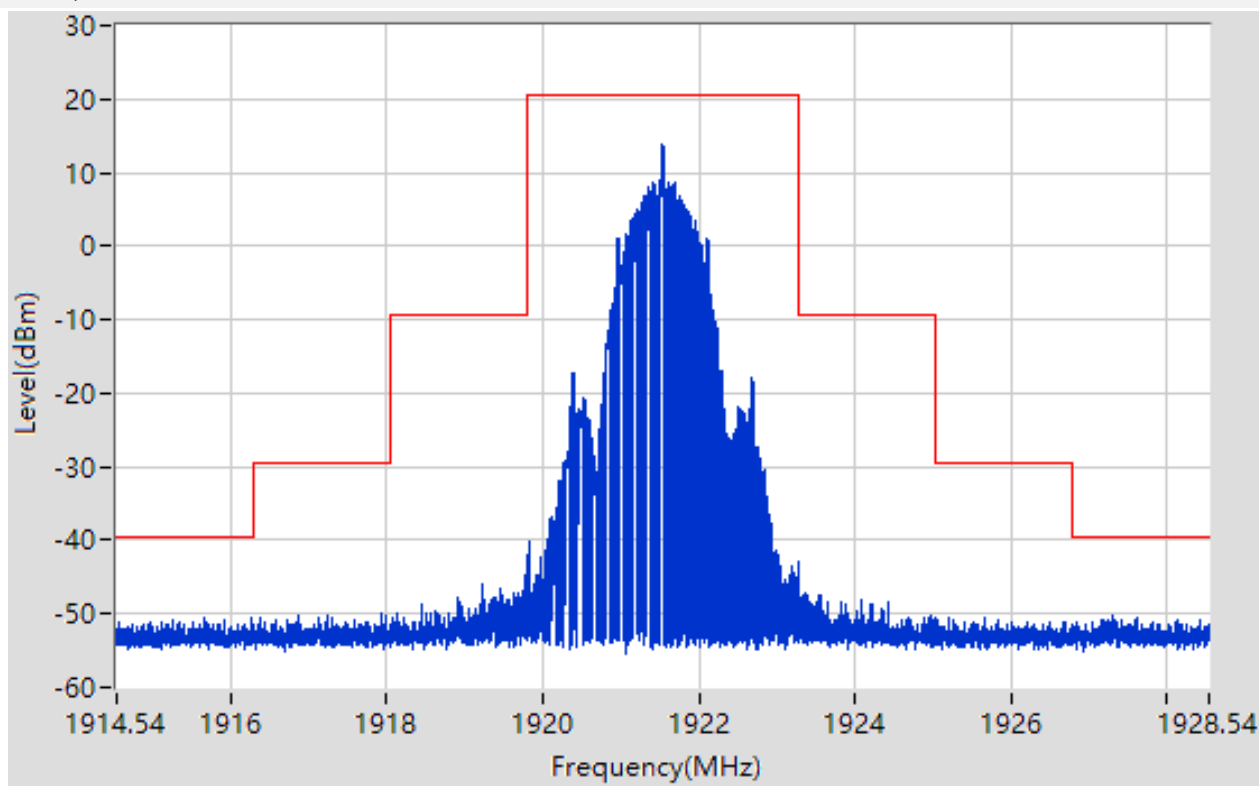
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	42.61	-53.05	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1907.408	-63.54	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.389	-62.62	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.824	-61.55	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.01	-45.98	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.319	-48.57	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1934.053	-61.64	-39.5	Pass	1001
2000	6000	0.03	Peak	2444	-50.58	-39.5	Pass	1001
6000	10000	0.03	Peak	6124	-65.65	-39.5	Pass	1001
10000	20000	0.03	Peak	18790	-57.65	-39.5	Pass	1001

MIMO-ANT1

Test Data and Plots

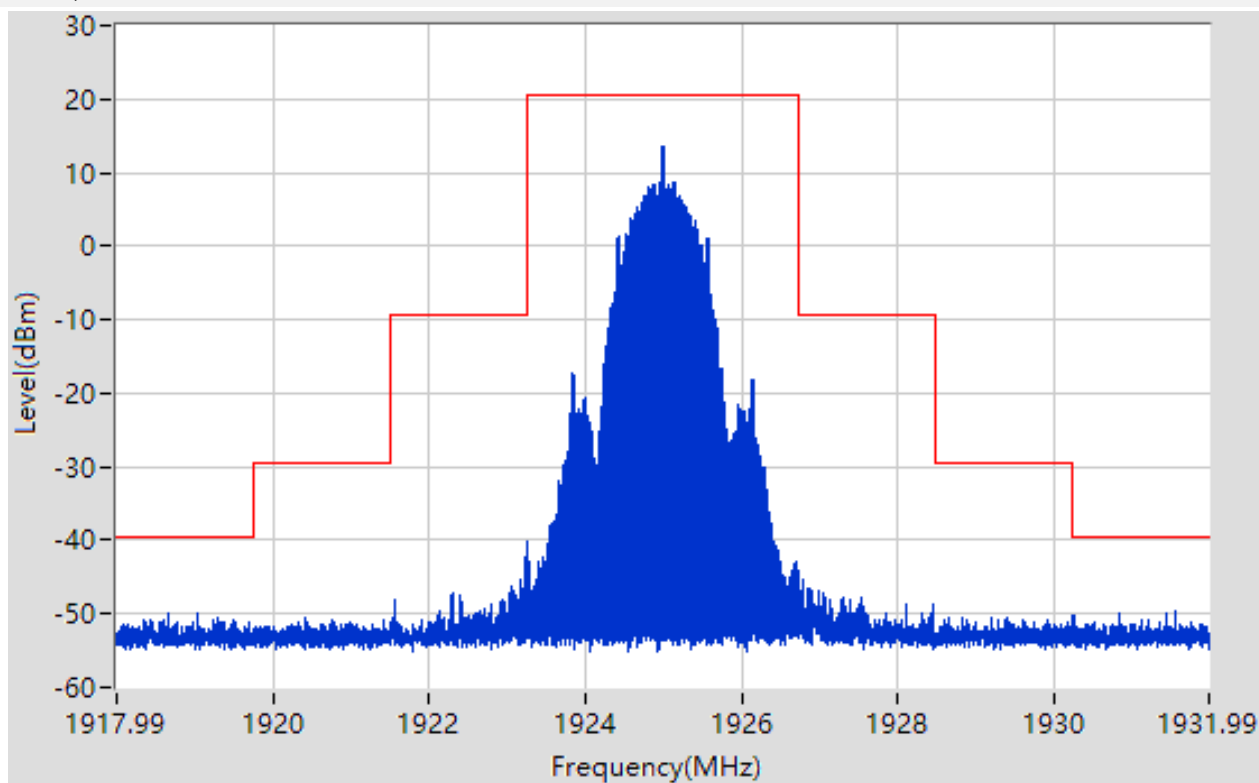
In-Band Emissions

GFSK, Low Channel



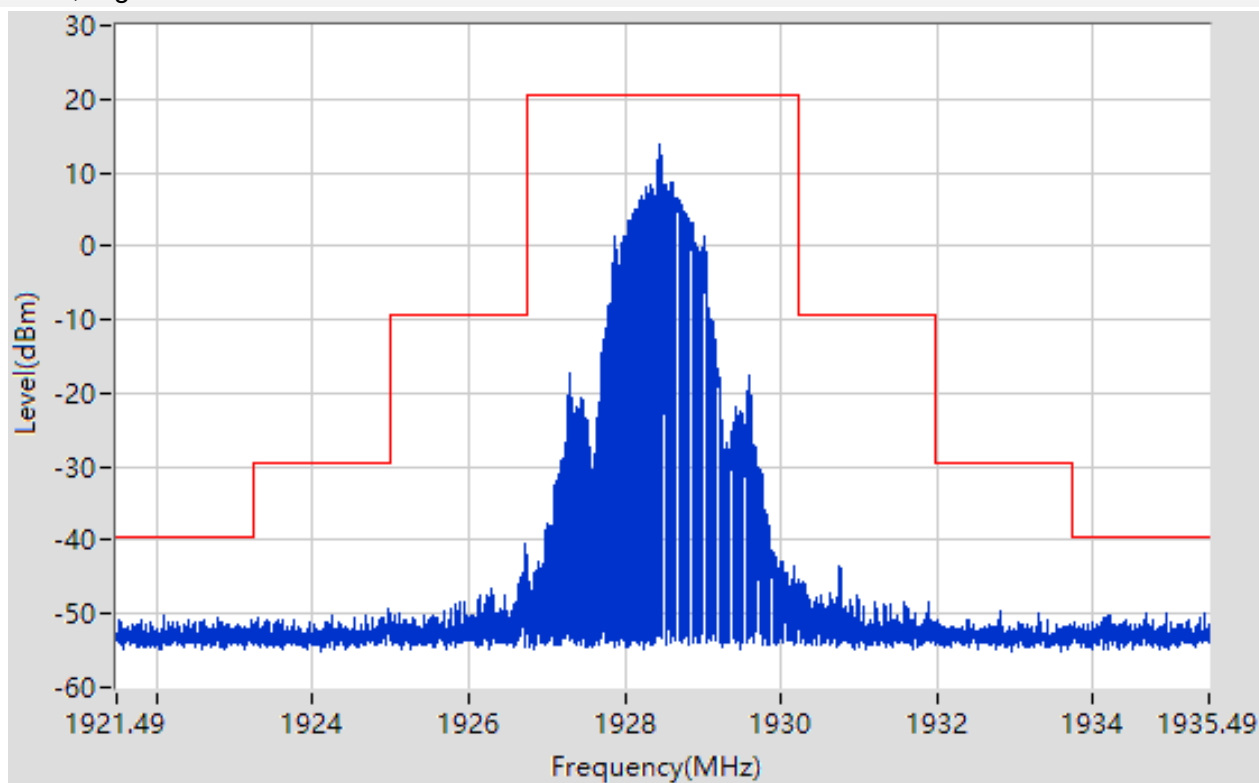
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1914.536	1916.286	0.03	Peak	1916.253	-50.49	-39.5	Pass	691
1916.286	1918.036	0.03	Peak	1917.942	-49.97	-29.5	Pass	691
1918.036	1919.786	0.03	Peak	1919.763	-44.84	-9.5	Pass	691
1919.786	1921.536	0.03	Peak	1921.531	13.8	20.5	Pass	691
1921.536	1923.286	0.03	Peak	1921.536	13.66	20.5	Pass	691
1923.286	1925.036	0.03	Peak	1923.357	-47.3	-9.5	Pass	691
1925.036	1926.786	0.03	Peak	1925.041	-50.47	-29.5	Pass	691
1926.786	1928.536	0.03	Peak	1927.293	-50.13	-39.5	Pass	691

GFSK, Middle Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1917.992	1919.742	0.03	Peak	1918.651	-49.86	-39.5	Pass	691
1919.742	1921.492	0.03	Peak	1920.404	-50.49	-29.5	Pass	691
1921.492	1923.242	0.03	Peak	1923.239	-40.56	-9.5	Pass	691
1923.242	1924.992	0.03	Peak	1924.984	13.67	20.5	Pass	691
1924.992	1926.742	0.03	Peak	1924.992	13.61	20.5	Pass	691
1926.742	1928.492	0.03	Peak	1926.793	-45.44	-9.5	Pass	691
1928.492	1930.242	0.03	Peak	1928.824	-50.48	-29.5	Pass	691
1930.242	1931.992	0.03	Peak	1931.563	-49.6	-39.5	Pass	691

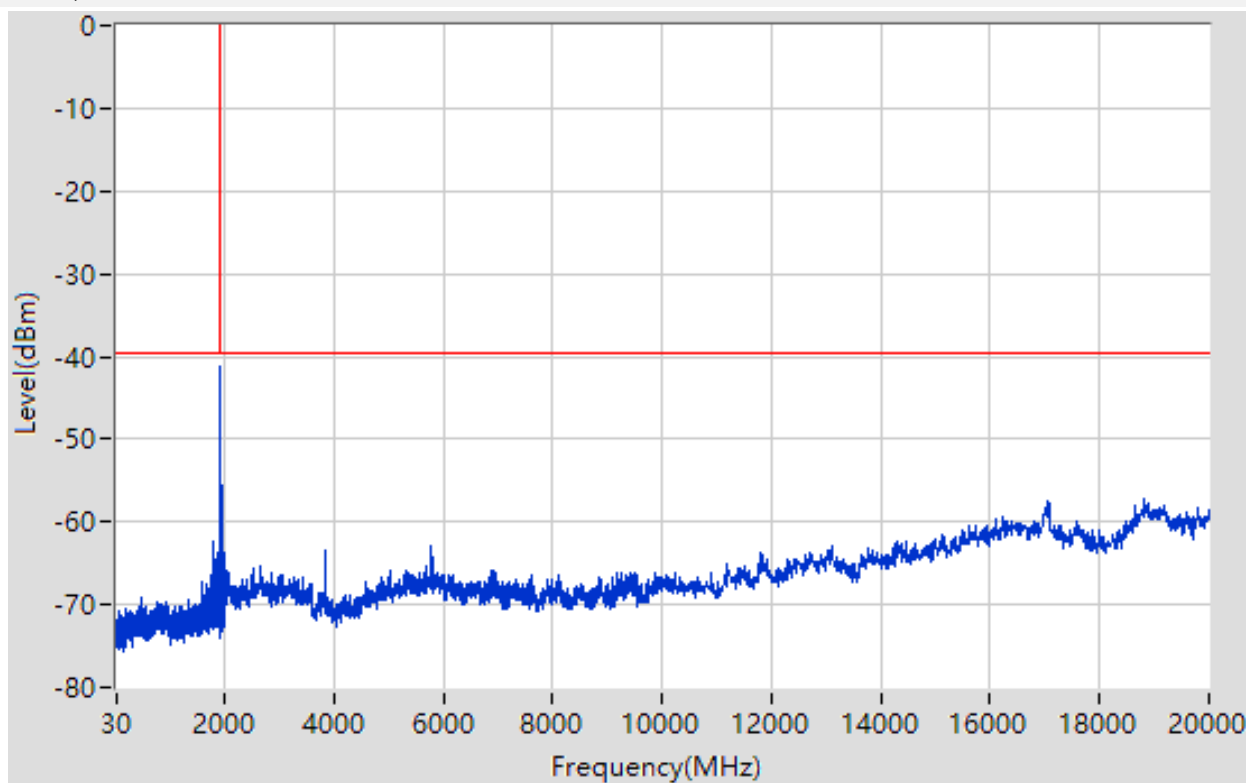
GFSK, High Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1921.488	1923.238	0.03	Peak	1922.099	-50.22	-39.5	Pass	691
1923.238	1924.988	0.03	Peak	1924.98	-49.28	-29.5	Pass	691
1924.988	1926.738	0.03	Peak	1926.733	-40.45	-9.5	Pass	691
1926.738	1928.488	0.03	Peak	1928.447	13.68	20.5	Pass	691
1928.488	1930.238	0.03	Peak	1928.597	8.67	20.5	Pass	691
1930.238	1931.988	0.03	Peak	1930.748	-43.45	-9.5	Pass	691
1931.988	1933.738	0.03	Peak	1932.822	-49.73	-29.5	Pass	691
1933.738	1935.488	0.03	Peak	1934.94	-49.83	-39.5	Pass	691

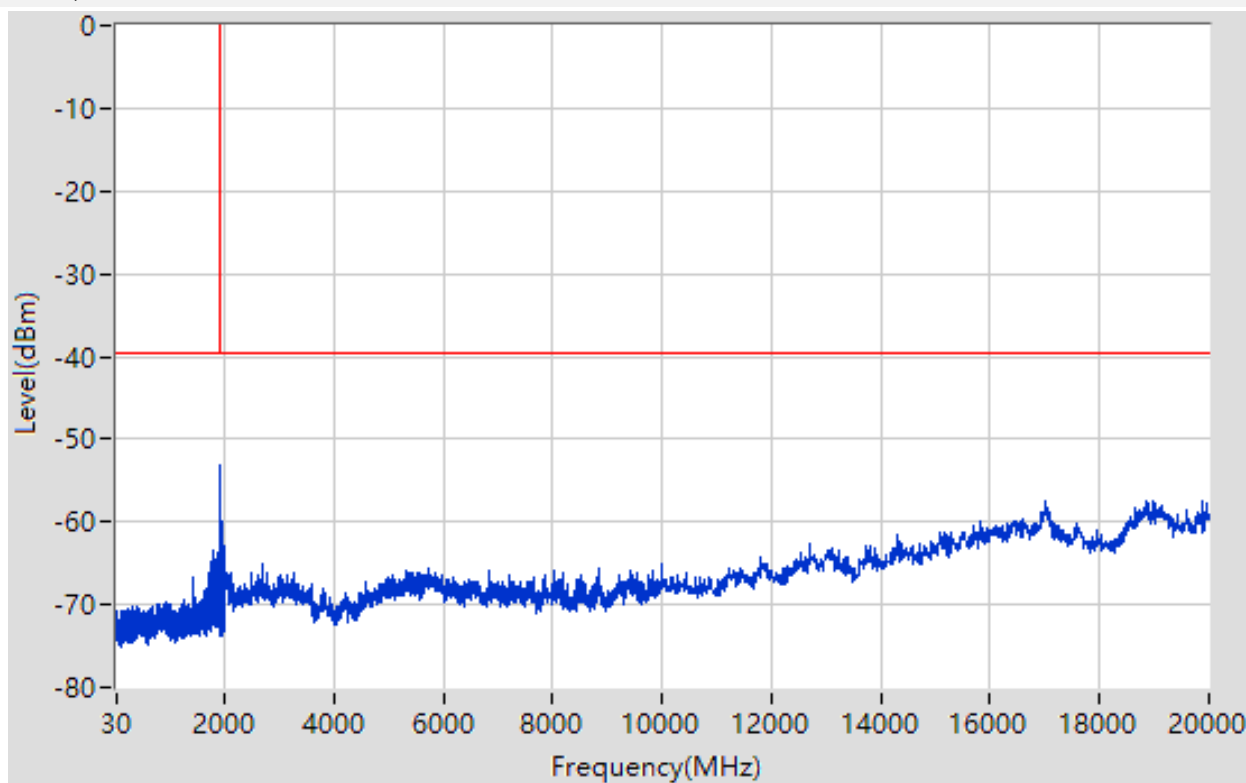
Out of Band Emissions

GFSK, Low Channel



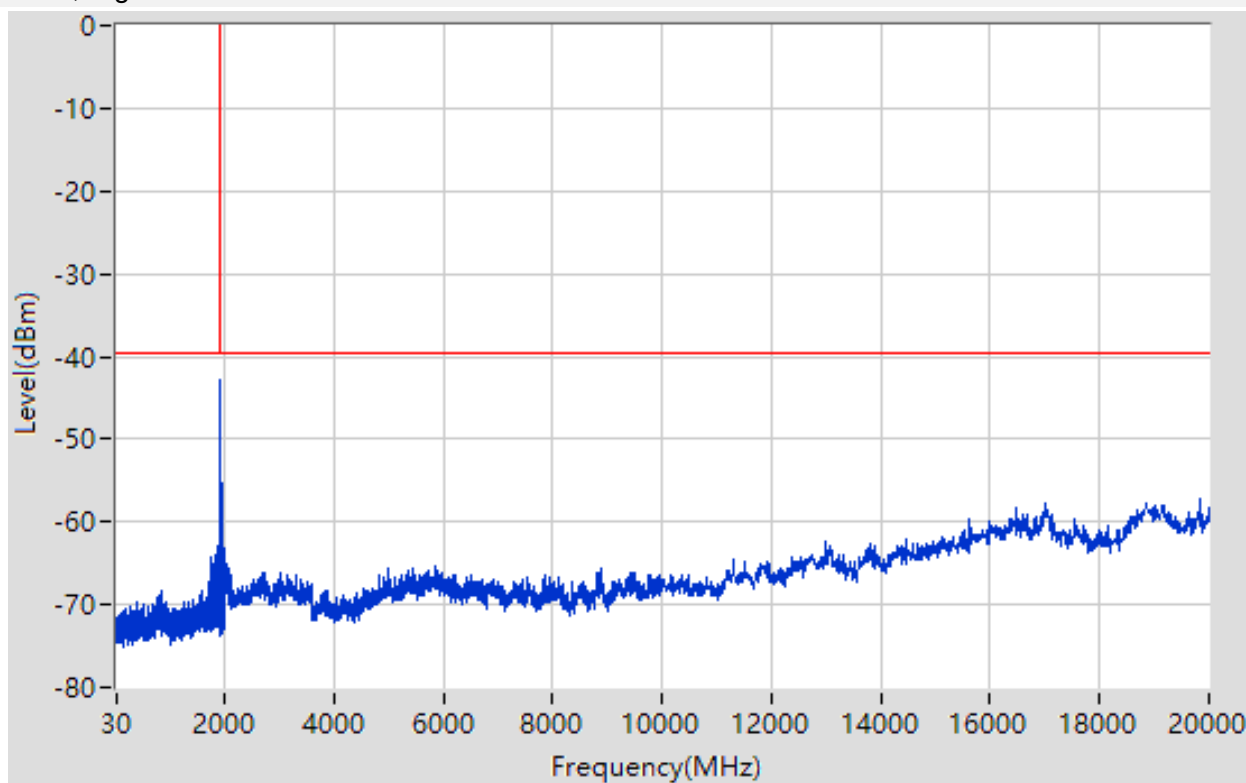
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	486.87	-69.2	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1809.235	-62.46	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.079	-48.52	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.804	-41.28	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.101	-61.21	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1932.474	-59.89	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1963.01	-55.63	-39.5	Pass	1001
2000	6000	0.03	Peak	5788	-62.93	-39.5	Pass	1001
6000	10000	0.03	Peak	6908	-65.82	-39.5	Pass	1001
10000	20000	0.03	Peak	18820	-57.14	-39.5	Pass	1001

GFSK, Middle Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	949.56	-69.73	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1811.07	-63.32	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.638	-56.43	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.224	-54.38	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.755	-53.11	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.316	-54.88	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1945.123	-59.98	-39.5	Pass	1001
2000	6000	0.03	Peak	2008	-63.95	-39.5	Pass	1001
6000	10000	0.03	Peak	9996	-65.17	-39.5	Pass	1001
10000	20000	0.03	Peak	19870	-57.46	-39.5	Pass	1001

GFSK, High Channel



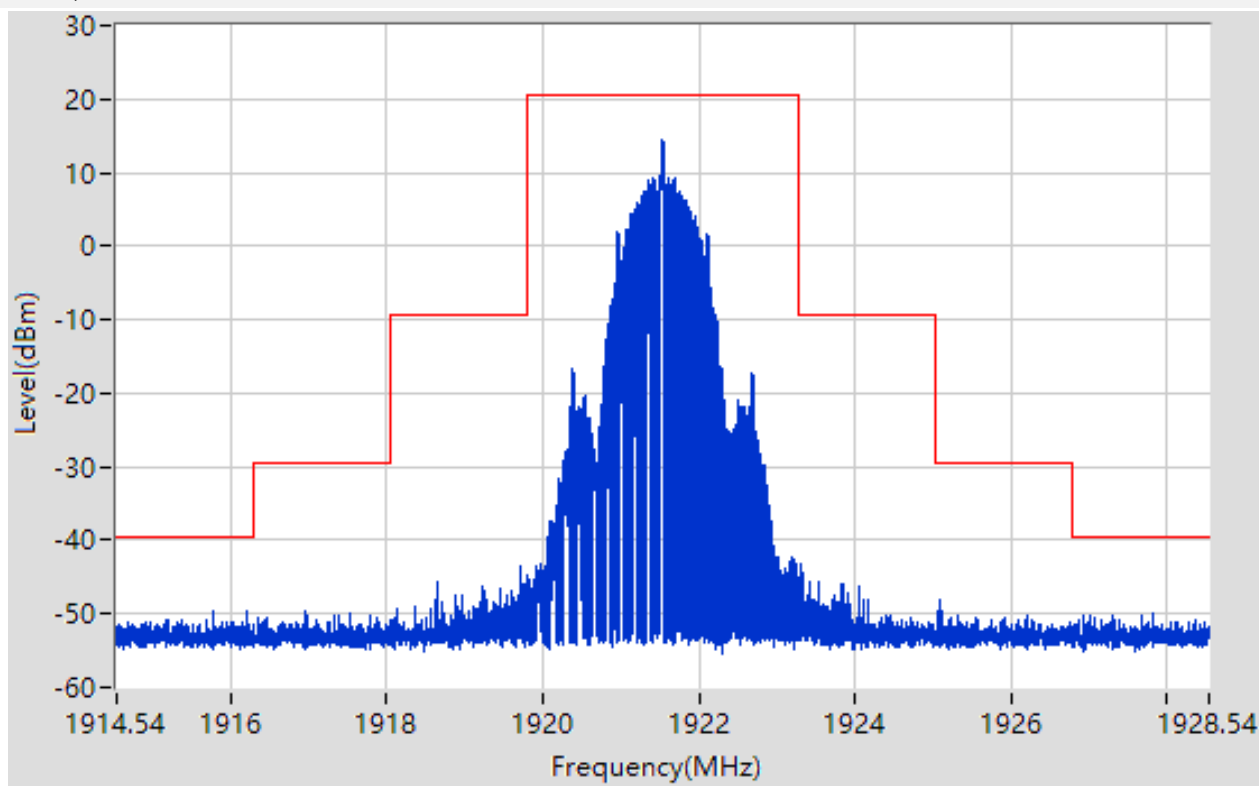
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	864.2	-68.39	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1907.408	-62.19	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1917.655	-61.1	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.796	-60.44	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.013	-42.89	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.321	-50.09	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1969.895	-55.44	-39.5	Pass	1001
2000	6000	0.03	Peak	2052	-65.07	-39.5	Pass	1001
6000	10000	0.03	Peak	8880	-65.5	-39.5	Pass	1001
10000	20000	0.03	Peak	19840	-57.22	-39.5	Pass	1001

MIMO-ANT2

Test Data and Plots

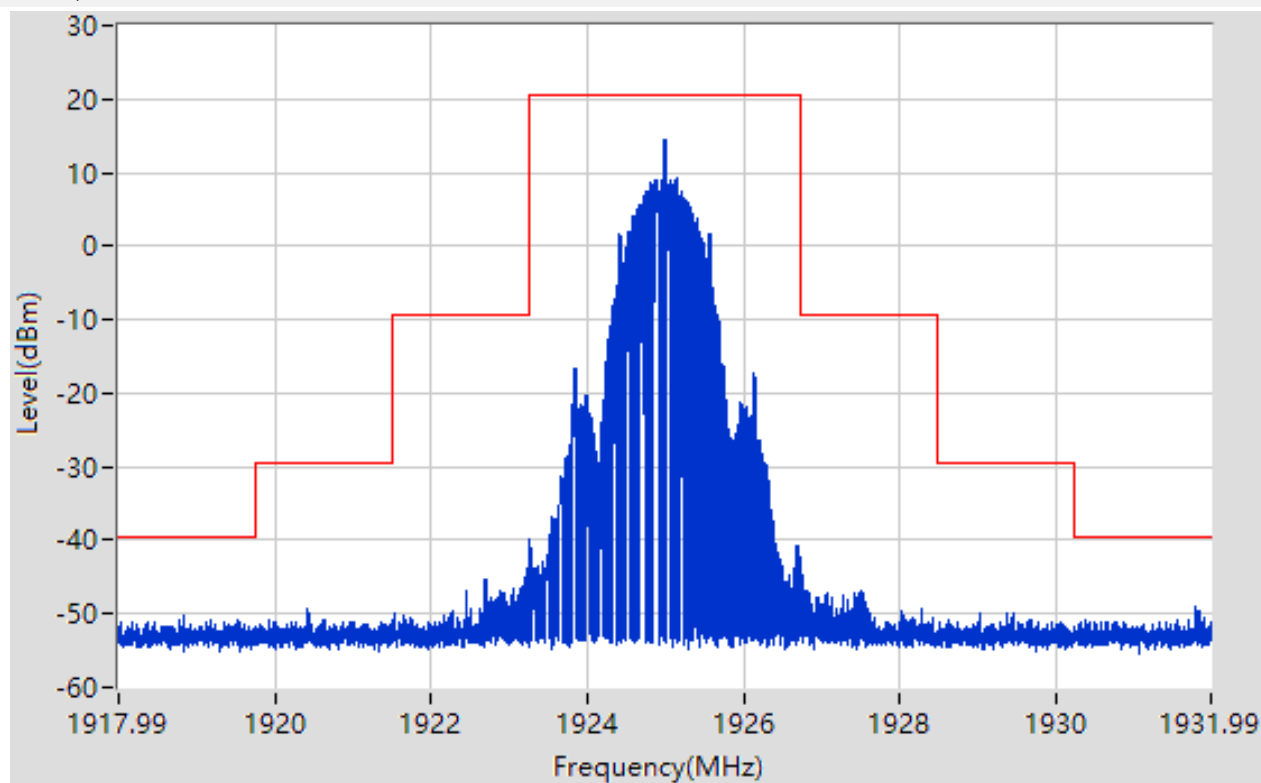
In-Band Emissions

GFSK, Low Channel



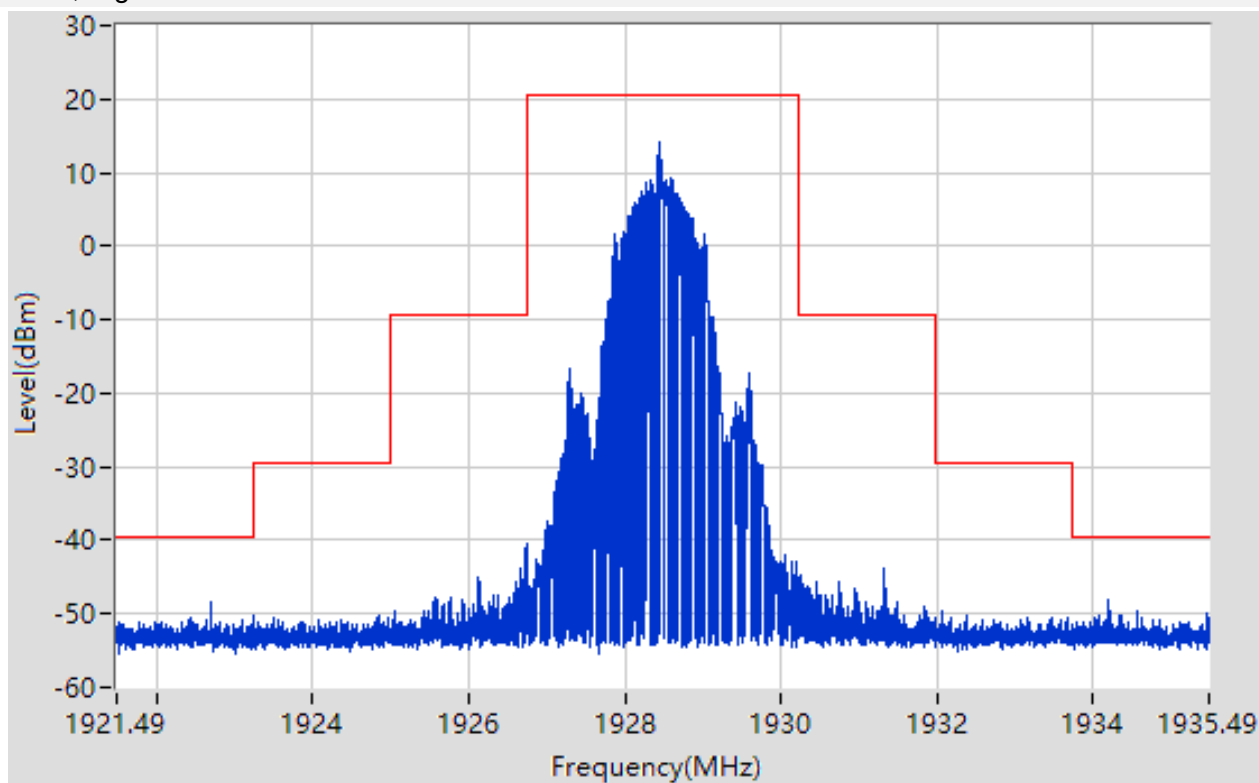
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1914.536	1916.286	0.03	Peak	1915.766	-49.61	-39.5	Pass	691
1916.286	1918.036	0.03	Peak	1916.943	-49.59	-29.5	Pass	691
1918.036	1919.786	0.03	Peak	1919.723	-43.48	-9.5	Pass	691
1919.786	1921.536	0.03	Peak	1921.531	14.45	20.5	Pass	691
1921.536	1923.286	0.03	Peak	1921.536	14.29	20.5	Pass	691
1923.286	1925.036	0.03	Peak	1923.304	-43.12	-9.5	Pass	691
1925.036	1926.786	0.03	Peak	1925.089	-48.16	-29.5	Pass	691
1926.786	1928.536	0.03	Peak	1927.808	-50.05	-39.5	Pass	691

GFSK, Middle Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1917.992	1919.742	0.03	Peak	1918.831	-50.19	-39.5	Pass	691
1919.742	1921.492	0.03	Peak	1920.404	-49.22	-29.5	Pass	691
1921.492	1923.242	0.03	Peak	1923.242	-40.73	-9.5	Pass	691
1923.242	1924.992	0.03	Peak	1924.987	14.35	20.5	Pass	691
1924.992	1926.742	0.03	Peak	1924.992	14.33	20.5	Pass	691
1926.742	1928.492	0.03	Peak	1926.772	-44.87	-9.5	Pass	691
1928.492	1930.242	0.03	Peak	1929.372	-49.78	-29.5	Pass	691
1930.242	1931.992	0.03	Peak	1931.792	-48.95	-39.5	Pass	691

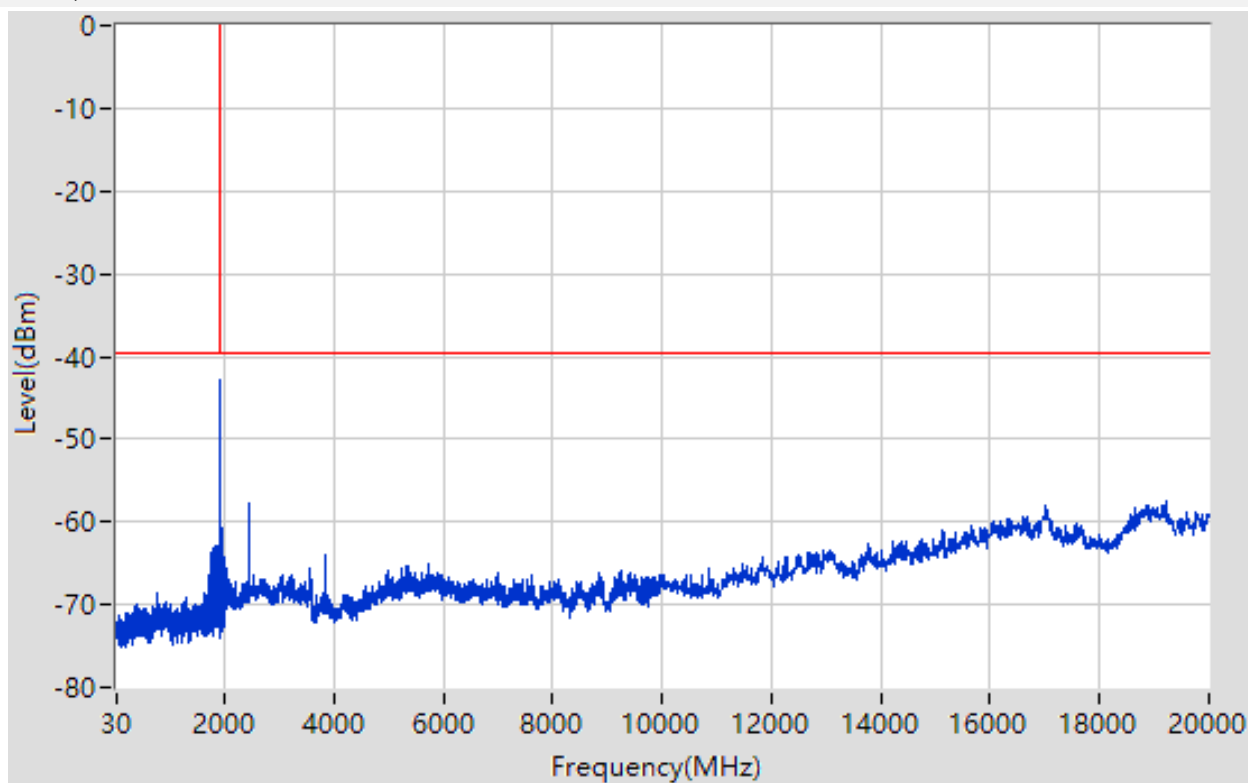
GFSK, High Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
1921.488	1923.238	0.03	Peak	1922.693	-48.49	-39.5	Pass	691
1923.238	1924.988	0.03	Peak	1924.859	-50.32	-29.5	Pass	691
1924.988	1926.738	0.03	Peak	1926.738	-40.34	-9.5	Pass	691
1926.738	1928.488	0.03	Peak	1928.447	14.21	20.5	Pass	691
1928.488	1930.238	0.03	Peak	1928.597	9.2	20.5	Pass	691
1930.238	1931.988	0.03	Peak	1931.326	-43.98	-9.5	Pass	691
1931.988	1933.738	0.03	Peak	1932.072	-49.57	-29.5	Pass	691
1933.738	1935.488	0.03	Peak	1934.195	-47.99	-39.5	Pass	691

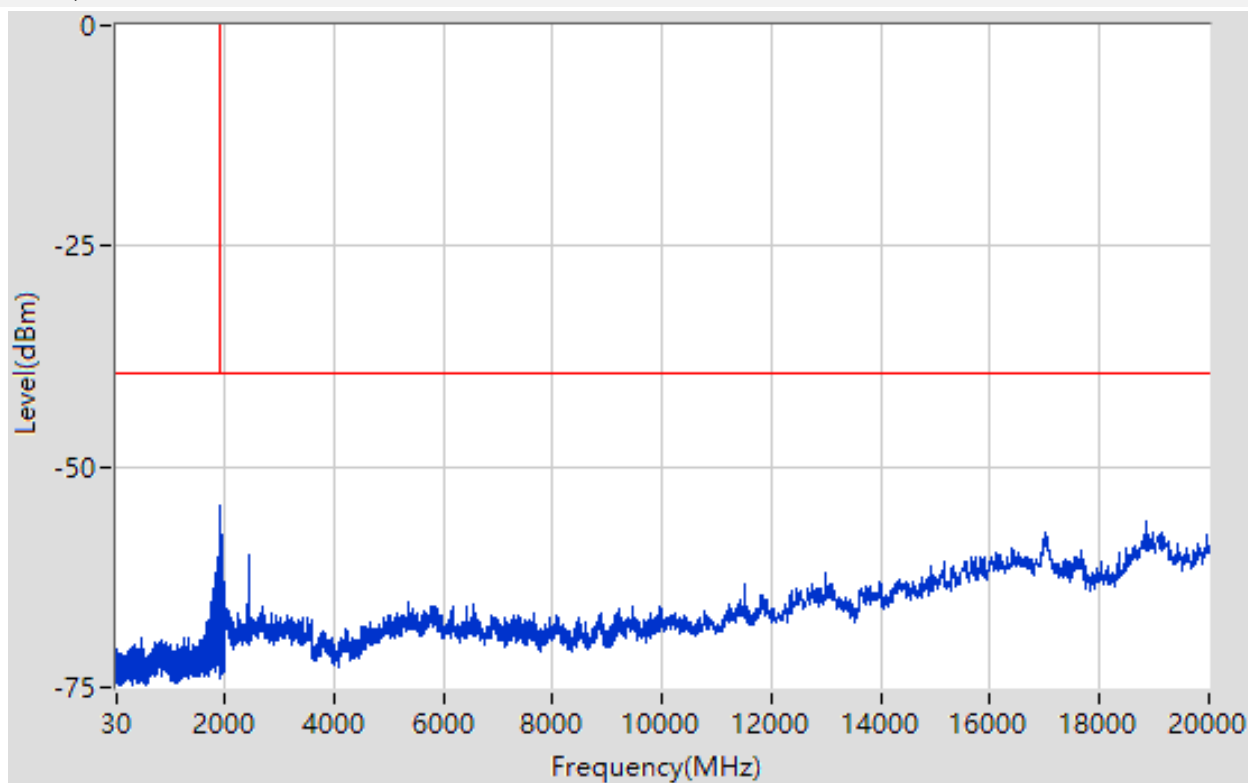
Out of Band Emissions

GFSK, Low Channel



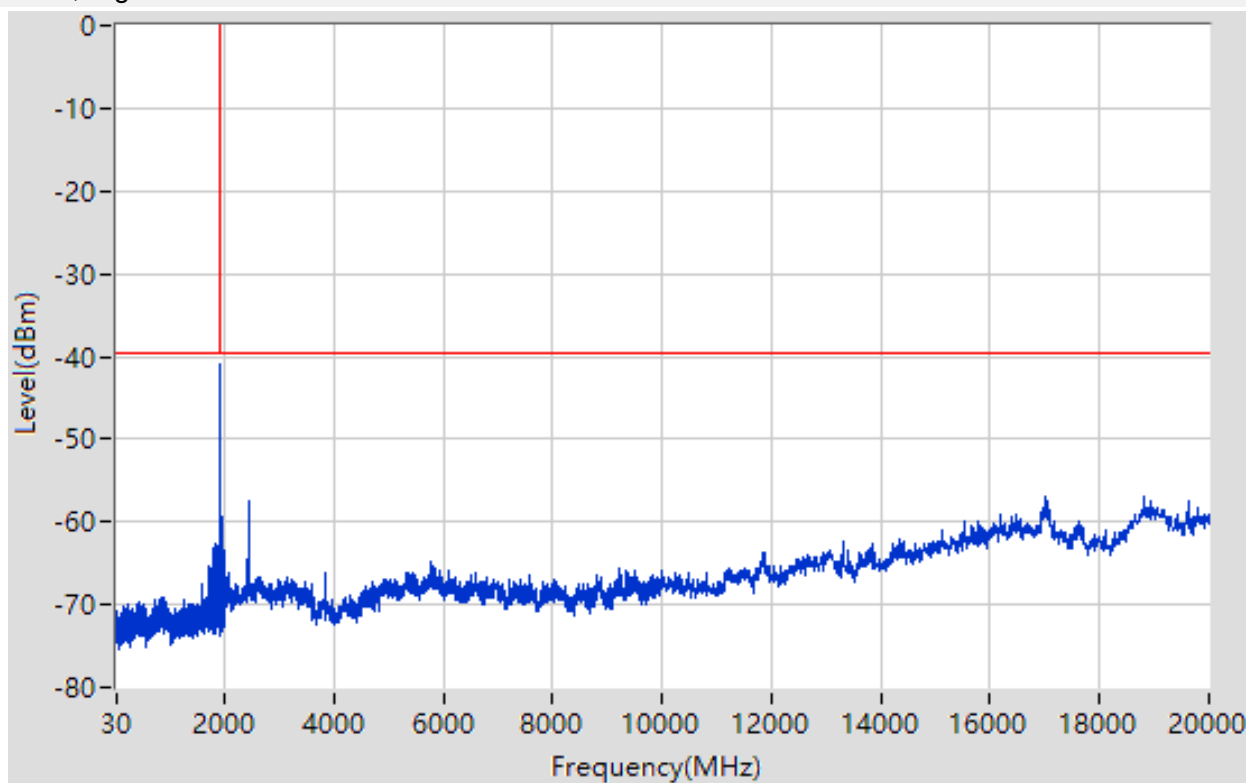
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	776.9	-68.74	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1900.985	-59.15	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.665	-44.69	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.826	-42.88	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.749	-60.81	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.884	-57.16	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1962.943	-60.76	-39.5	Pass	1001
2000	6000	0.03	Peak	2440	-57.69	-39.5	Pass	1001
6000	10000	0.03	Peak	9240	-66.01	-39.5	Pass	1001
10000	20000	0.03	Peak	19210	-57.43	-39.5	Pass	1001

GFSK, Middle Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	477.17	-69.34	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1883.553	-60.34	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1918.641	-54.75	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.211	-55.88	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.765	-54.32	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.904	-55.96	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1966.453	-57.77	-39.5	Pass	1001
2000	6000	0.03	Peak	2436	-59.91	-39.5	Pass	1001
6000	10000	0.03	Peak	6564	-65.65	-39.5	Pass	1001
10000	20000	0.03	Peak	18870	-56.2	-39.5	Pass	1001

GFSK, High Channel



Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.03	Peak	852.56	-69.13	-39.5	Pass	1001
1000	1917.5	0.03	Peak	1848.688	-62.75	-39.5	Pass	1001
1917.5	1918.75	0.03	Peak	1917.796	-59.84	-29.5	Pass	1001
1918.75	1920	0.03	Peak	1919.809	-59.4	-9.5	Pass	1001
1930	1931.25	0.03	Peak	1930.034	-41.04	-9.5	Pass	1001
1931.25	1932.5	0.03	Peak	1931.318	-45.31	-29.5	Pass	1001
1932.5	2000	0.03	Peak	1934.255	-56.46	-39.5	Pass	1001
2000	6000	0.03	Peak	2440	-57.47	-39.5	Pass	1001
6000	10000	0.03	Peak	9232	-65.59	-39.5	Pass	1001
10000	20000	0.03	Peak	18830	-56.84	-39.5	Pass	1001

A.6 Carrier Frequency Stability

Test Data

Frequency Stability over Power Supply Voltage at Nominal Temperature

Note: Deviation ppm = ((Mean - Measured Frequency) / Mean) x 10⁶

Frequency Stability over Temperature

ANT1

Voltage	Channel	Difference (kHz)	Deviation (ppm)	Limits (ppm)	Verdict
T = +20 °C	Middle	0.0	0.00	±10	Pass
T = -20 °C	Middle	0.1	0.05	±10	Pass
T = +50 °C	Middle	0.3	0.16	±10	Pass

ANT2

Voltage	Channel	Difference (kHz)	Deviation (ppm)	Limits (ppm)	Verdict
T = +20 °C	Middle	3.9	2.02	±10	Pass
T = -20 °C	Middle	3.8	1.97	±10	Pass
T = +50 °C	Middle	3.7	1.92	±10	Pass

A.7 Spurious Emissions (Radiated)

Note ¹: The symbol of “--” in the table which means not application.

Note ²: For the test data above 1 GHz, according the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

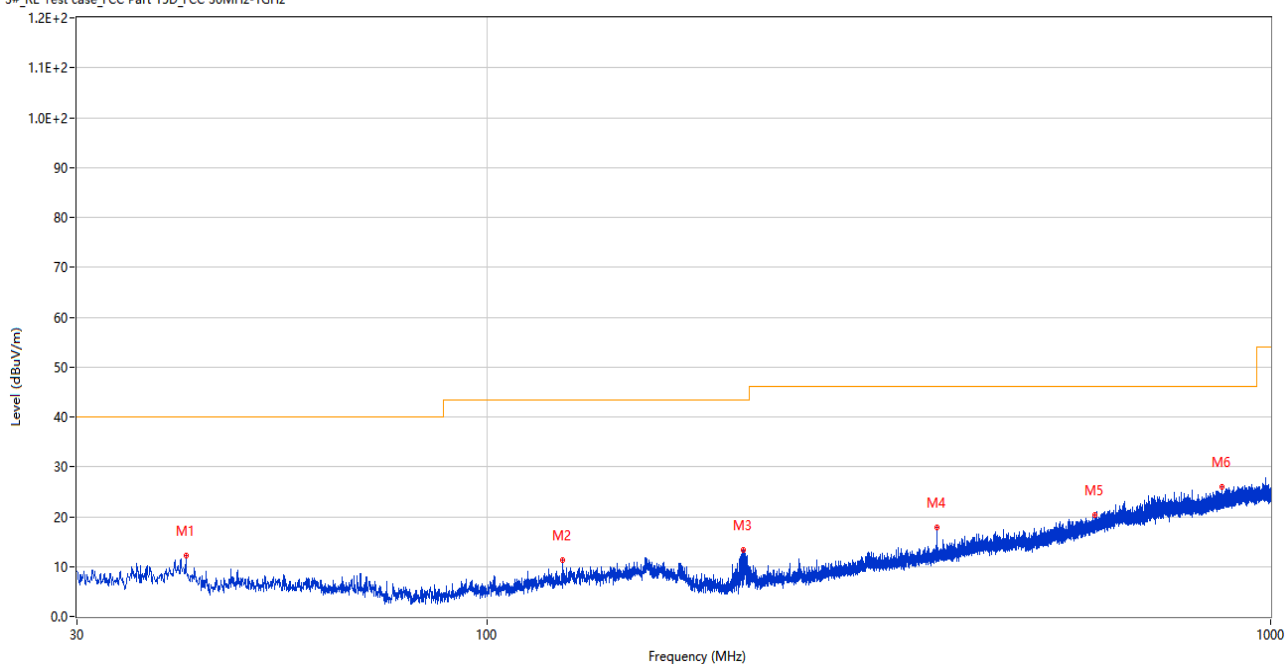
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Test Data and Plots

ANT1

30 MHz to 1 GHz, Low Channel, ANT H

3#_RE Test case_FCC Part 15D_FCC 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	40.015	12.12	40.0	27.88	Peak	190.00	100	Horizontal	Pass
2	123.646	11.50	43.5	32.00	Peak	190.00	100	Horizontal	Pass
3	216.046	13.32	43.5	30.18	Peak	302.00	200	Horizontal	Pass
4	377.957	18.04	46.0	27.96	Peak	302.00	200	Horizontal	Pass
5	599.943	20.56	46.0	25.45	Peak	329.00	200	Horizontal	Pass
6	862.254	26.01	46.0	19.99	Peak	329.00	200	Horizontal	Pass

30 MHz to 1 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.633	17.28	40.0	22.72	Peak	218.00	400	Vertical	Pass
2	74.931	14.85	40.0	25.15	Peak	218.00	400	Vertical	Pass
3	163.549	17.71	43.5	25.80	Peak	118.00	300	Vertical	Pass
4	246.643	17.31	46.0	28.69	Peak	118.00	300	Vertical	Pass
5	376.935	18.05	46.0	27.95	Peak	247.00	200	Vertical	Pass
6	710.902	24.77	46.0	21.23	Peak	247.00	200	Vertical	Pass

30 MHz to 1 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.199	17.56	40.0	22.44	Peak	49.00	200	Horizontal	Pass
2	69.854	15.29	40.0	24.71	Peak	49.00	400	Horizontal	Pass
3	162.397	18.16	43.5	25.34	Peak	88.00	200	Horizontal	Pass
4	246.935	17.64	46.0	28.36	Peak	88.00	100	Horizontal	Pass
5	373.154	18.10	46.0	27.90	Peak	348.00	300	Horizontal	Pass
6	706.650	24.80	46.0	21.20	Peak	348.00	400	Horizontal	Pass

30 MHz to 1 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.320	18.66	40.0	21.34	Peak	159.00	100	Vertical	Pass
2	73.873	17.87	40.0	22.13	Peak	159.00	400	Vertical	Pass
3	163.469	18.42	43.5	25.08	Peak	348.00	200	Vertical	Pass
4	248.213	20.37	46.0	25.63	Peak	348.00	300	Vertical	Pass
5	372.957	17.16	46.0	28.84	Peak	212.00	300	Vertical	Pass
6	711.925	25.08	46.0	20.92	Peak	212.00	400	Vertical	Pass

30 MHz to 1 GHz, High Channel, ANT H

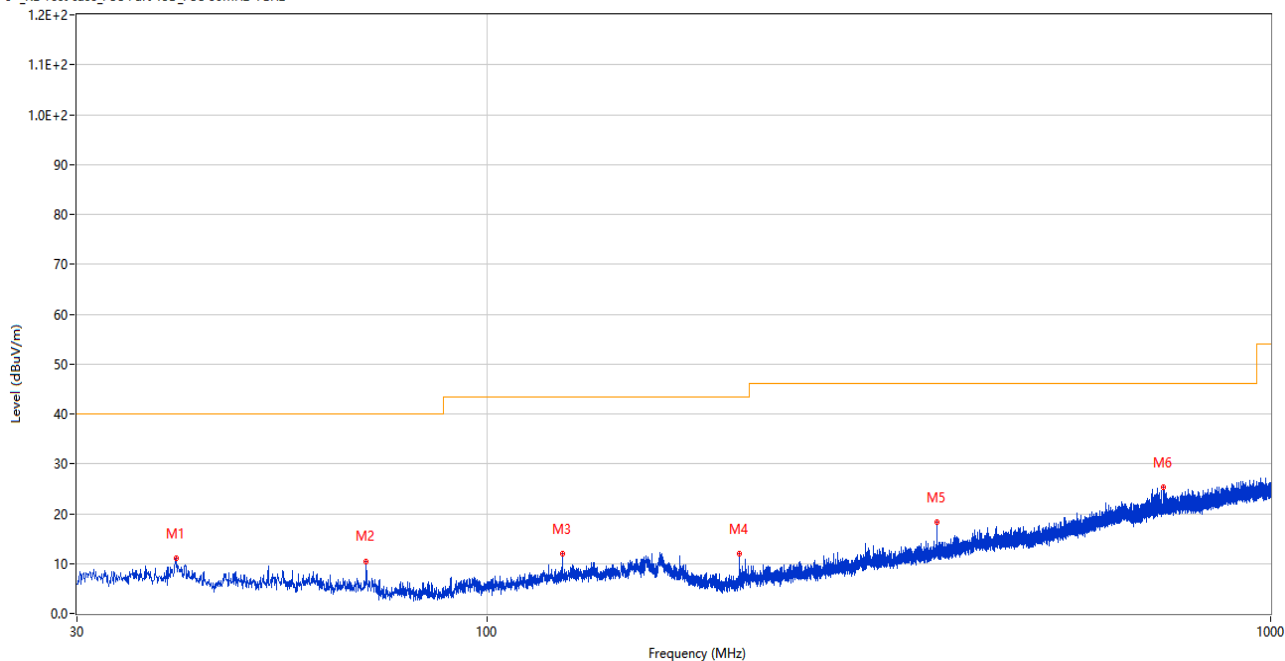
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.925	13.34	40.0	26.66	Peak	15.00	300	Horizontal	Pass
2	125.203	10.54	43.5	32.96	Peak	15.00	300	Horizontal	Pass
3	209.634	14.99	43.5	28.51	Peak	104.00	100	Horizontal	Pass
4	372.558	20.56	46.0	25.44	Peak	104.00	200	Horizontal	Pass
5	595.674	22.18	46.0	23.82	Peak	216.00	200	Horizontal	Pass
6	869.300	25.64	46.0	20.36	Peak	216.00	300	Horizontal	Pass

30 MHz to 1 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.170	16.76	40.0	23.24	Peak	80.00	100	Vertical	Pass
2	68.500	12.13	40.0	27.87	Peak	80.00	100	Vertical	Pass
3	160.990	16.19	43.5	27.31	Peak	233.00	200	Vertical	Pass
4	251.120	16.15	46.0	29.85	Peak	233.00	200	Vertical	Pass
5	378.392	18.30	46.0	27.70	Peak	94.00	200	Vertical	Pass
6	709.561	24.72	46.0	21.28	Peak	94.00	200	Vertical	Pass

ANT2**30 MHz to 1 GHz, Low Channel, ANT H**

3#_RE Test case_FCC Part 15D_FCC 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.668	11.05	40.0	28.95	Peak	209.00	100	Horizontal	Pass
2	73.873	10.67	40.0	29.33	Peak	209.00	100	Horizontal	Pass
3	123.740	11.85	43.5	31.65	Peak	146.00	200	Horizontal	Pass
4	209.513	11.79	43.5	31.71	Peak	146.00	200	Horizontal	Pass
5	374.162	18.12	46.0	27.88	Peak	251.00	200	Horizontal	Pass
6	729.522	25.43	46.0	20.57	Peak	251.00	200	Horizontal	Pass

30 MHz to 1 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.874	17.33	40.0	22.67	Peak	230.00	200	Vertical	Pass
2	73.198	15.13	40.0	24.87	Peak	230.00	200	Vertical	Pass
3	163.828	17.72	43.5	25.79	Peak	306.00	100	Vertical	Pass
4	250.376	17.74	46.0	28.26	Peak	306.00	100	Vertical	Pass
5	375.658	18.05	46.0	27.95	Peak	57.00	200	Vertical	Pass
6	714.414	24.42	46.0	21.58	Peak	57.00	200	Vertical	Pass

30 MHz to 1 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.058	9.73	40.0	30.27	Peak	80.00	100	Horizontal	Pass
2	66.271	11.21	40.0	28.79	Peak	80.00	400	Horizontal	Pass
3	127.250	10.08	43.5	33.42	Peak	347.00	200	Horizontal	Pass
4	211.227	13.85	43.5	29.65	Peak	347.00	300	Horizontal	Pass
5	376.590	18.32	46.0	27.68	Peak	231.00	200	Horizontal	Pass
6	726.137	25.33	46.0	20.67	Peak	231.00	300	Horizontal	Pass

30 MHz to 1 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.300	20.03	40.0	19.97	Peak	223.00	200	Vertical	Pass
2	72.075	16.29	40.0	23.71	Peak	223.00	300	Vertical	Pass
3	157.497	20.21	43.5	23.29	Peak	69.00	100	Vertical	Pass
4	246.887	15.46	46.0	30.54	Peak	69.00	300	Vertical	Pass
5	372.345	17.81	46.0	28.19	Peak	3.00	200	Vertical	Pass
6	711.182	25.19	46.0	20.81	Peak	3.00	300	Vertical	Pass

30 MHz to 1 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.718	11.01	40.0	28.99	Peak	358.00	200	Horizontal	Pass
2	128.381	12.92	43.5	30.58	Peak	358.00	100	Horizontal	Pass
3	213.417	12.41	43.5	31.09	Peak	339.00	400	Horizontal	Pass
4	373.882	19.77	46.0	26.23	Peak	339.00	100	Horizontal	Pass
5	597.408	21.32	46.0	24.68	Peak	267.00	100	Horizontal	Pass
6	868.281	24.52	46.0	21.48	Peak	267.00	200	Horizontal	Pass

30 MHz to 1 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.733	17.41	40.0	22.59	Peak	262.00	300	Vertical	Pass
2	74.214	13.87	40.0	26.13	Peak	262.00	300	Vertical	Pass
3	160.624	19.16	43.5	24.34	Peak	336.00	100	Vertical	Pass
4	248.726	18.23	46.0	27.77	Peak	336.00	100	Vertical	Pass
5	374.796	17.18	46.0	28.82	Peak	255.00	200	Vertical	Pass
6	712.946	25.15	46.0	20.85	Peak	255.00	200	Vertical	Pass

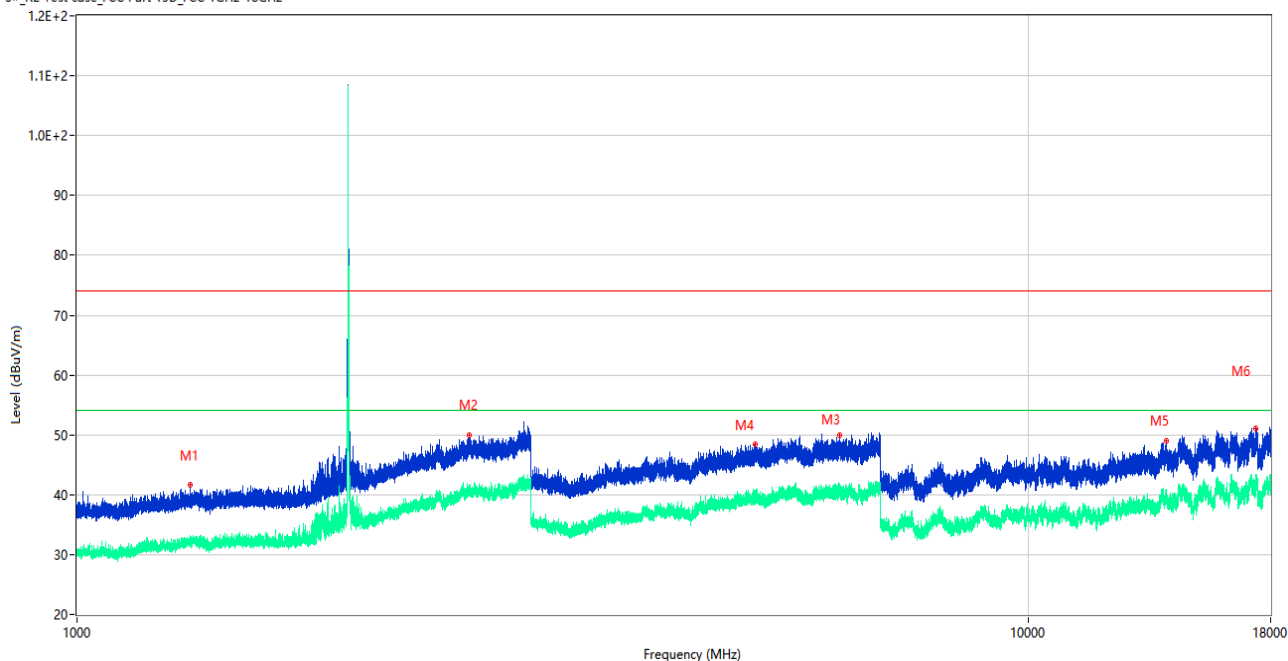
Note¹: The marked spikes near 1925 MHz with circle should be ignored because they are Fundamental signal.

Note²: The spurious above 18G is noise only, do not show on the report.

ANT1

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

3#_RE Test case_FCC Part 15D_FCC 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1312.216	41.43	74.0	32.57	Peak	238.00	200	Horizontal	Pass
1**	1312.216	33.17	54.0	20.83	AV	238.00	200	Horizontal	Pass
2	2579.799	50.09	74.0	23.91	Peak	319.00	400	Horizontal	Pass
2**	2579.799	41.37	54.0	12.63	AV	319.00	400	Horizontal	Pass
3	6335.568	50.16	74.0	23.84	Peak	142.00	200	Horizontal	Pass
3**	6335.568	40.50	54.0	13.50	AV	142.00	200	Horizontal	Pass
4	5164.971	48.55	74.0	25.45	Peak	58.00	300	Horizontal	Pass
4**	5164.971	39.35	54.0	14.65	AV	58.00	300	Horizontal	Pass
5	13983.313	48.73	74.0	25.28	Peak	57.00	200	Horizontal	Pass
5**	13983.313	39.45	54.0	14.56	AV	57.00	200	Horizontal	Pass
6	17357.057	50.77	74.0	23.23	Peak	277.00	200	Horizontal	Pass
6**	17357.057	40.92	54.0	11.08	AV	277.00	200	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1311.976	41.63	74.0	32.37	Peak	301.00	200	Vertical	Pass
1**	1311.976	33.32	54.0	20.69	AV	301.00	200	Vertical	Pass
2	2585.412	49.93	74.0	24.07	Peak	44.00	300	Vertical	Pass
2**	2585.412	41.30	54.0	12.70	AV	44.00	300	Vertical	Pass
3	6337.407	50.07	74.0	23.93	Peak	0.00	200	Vertical	Pass
3**	6337.407	40.35	54.0	13.65	AV	0.00	200	Vertical	Pass
4	5163.088	48.43	74.0	25.57	Peak	270.00	300	Vertical	Pass
4**	5163.088	39.54	54.0	14.46	AV	270.00	300	Vertical	Pass
5	13983.759	49.04	74.0	24.96	Peak	228.00	200	Vertical	Pass
5**	13983.759	39.89	54.0	14.11	AV	228.00	200	Vertical	Pass
6	17356.572	51.26	74.0	22.75	Peak	238.00	200	Vertical	Pass
6**	17356.572	42.12	54.0	11.88	AV	238.00	200	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1311.849	41.78	74.0	32.22	Peak	27.00	200	Horizontal	Pass
1**	1311.849	33.32	54.0	20.68	AV	27.00	200	Horizontal	Pass
2	2585.016	49.81	74.0	24.19	Peak	273.00	300	Horizontal	Pass
2**	2585.016	41.13	54.0	12.87	AV	273.00	300	Horizontal	Pass
3	6337.944	49.97	74.0	24.03	Peak	318.00	200	Horizontal	Pass
3**	6337.944	40.42	54.0	13.59	AV	318.00	200	Horizontal	Pass
4	5165.344	48.44	74.0	25.56	Peak	328.00	400	Horizontal	Pass
4**	5165.344	39.42	54.0	14.59	AV	328.00	400	Horizontal	Pass
5	13980.508	48.84	74.0	25.16	Peak	38.00	200	Horizontal	Pass
5**	13980.508	39.74	54.0	14.26	AV	38.00	200	Horizontal	Pass
6	17357.592	50.81	74.0	23.19	Peak	315.00	300	Horizontal	Pass
6**	17357.592	42.20	54.0	11.80	AV	315.00	300	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1315.637	41.89	74.0	32.12	Peak	1.00	400	Vertical	Pass
1**	1315.637	33.09	54.0	20.92	AV	1.00	400	Vertical	Pass
2	2580.805	50.08	74.0	23.92	Peak	154.00	200	Vertical	Pass
2**	2580.805	41.29	54.0	12.72	AV	154.00	200	Vertical	Pass
3	6333.404	50.03	74.0	23.97	Peak	69.00	200	Vertical	Pass
3**	6333.404	40.42	54.0	13.58	AV	69.00	200	Vertical	Pass
4	5162.639	48.13	74.0	25.87	Peak	234.00	100	Vertical	Pass
4**	5162.639	39.60	54.0	14.40	AV	234.00	100	Vertical	Pass
5	13986.590	48.64	74.0	25.36	Peak	292.00	400	Vertical	Pass
5**	13986.590	39.55	54.0	14.45	AV	292.00	400	Vertical	Pass
6	17358.732	50.85	74.0	23.15	Peak	236.00	100	Vertical	Pass
6**	17358.732	42.10	54.0	11.90	AV	236.00	100	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

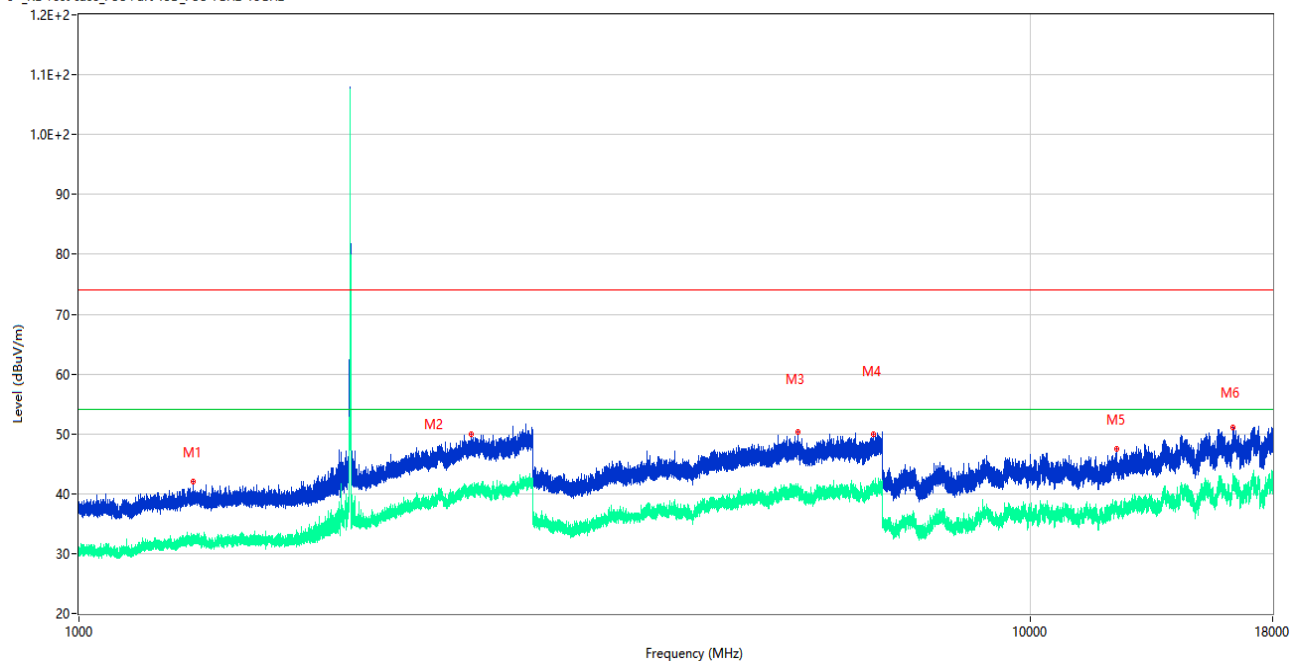
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1317.509	41.60	74.0	32.40	Peak	344.00	300	Horizontal	Pass
1**	1317.509	32.88	54.0	21.12	AV	344.00	300	Horizontal	Pass
2	2579.737	50.27	74.0	23.73	Peak	34.00	300	Horizontal	Pass
2**	2579.737	41.14	54.0	12.86	AV	34.00	300	Horizontal	Pass
3	6337.028	49.72	74.0	24.29	Peak	135.00	200	Horizontal	Pass
3**	6337.028	40.49	54.0	13.51	AV	135.00	200	Horizontal	Pass
4	5166.430	48.65	74.0	25.35	Peak	47.00	100	Horizontal	Pass
4**	5166.430	39.60	54.0	14.40	AV	47.00	100	Horizontal	Pass
5	13986.552	48.85	74.0	25.15	Peak	92.00	400	Horizontal	Pass
5**	13986.552	39.83	54.0	14.18	AV	92.00	400	Horizontal	Pass
6	17360.935	51.20	74.0	22.80	Peak	35.00	100	Horizontal	Pass
6**	17360.935	42.01	54.0	11.99	AV	35.00	100	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1313.464	41.42	74.0	32.58	Peak	165.00	100	Vertical	Pass
1**	1313.464	32.96	54.0	21.04	AV	165.00	100	Vertical	Pass
2	2586.849	50.18	74.0	23.82	Peak	308.00	400	Vertical	Pass
2**	2586.849	41.43	54.0	12.57	AV	308.00	400	Vertical	Pass
3	6332.204	50.15	74.0	23.85	Peak	60.00	200	Vertical	Pass
3**	6332.204	40.69	54.0	13.31	AV	60.00	200	Vertical	Pass
4	5160.299	48.60	74.0	25.41	Peak	15.00	100	Vertical	Pass
4**	5160.299	39.40	54.0	14.61	AV	15.00	100	Vertical	Pass
5	13981.030	48.73	74.0	25.28	Peak	295.00	300	Vertical	Pass
5**	13981.030	39.84	54.0	14.16	AV	295.00	300	Vertical	Pass
6	17355.947	51.33	74.0	22.68	Peak	257.00	200	Vertical	Pass
6**	17355.947	42.07	54.0	11.93	AV	257.00	200	Vertical	Pass

ANT2**GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H**

3#_RE Test case_FCC Part 15D_FCC 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1315.757	41.66	74.0	32.34	Peak	60.00	400	Horizontal	Pass
1**	1315.757	31.78	54.0	22.22	AV	60.00	400	Horizontal	Pass
2	2586.129	49.74	74.0	24.27	Peak	321.00	100	Horizontal	Pass
2**	2586.129	40.33	54.0	13.67	AV	321.00	100	Horizontal	Pass
3	5702.550	50.02	74.0	23.98	Peak	124.00	200	Horizontal	Pass
3**	5702.550	40.24	54.0	13.76	AV	124.00	200	Horizontal	Pass
4	6852.425	50.03	74.0	23.97	Peak	108.00	300	Horizontal	Pass
4**	6852.425	40.42	54.0	13.59	AV	108.00	300	Horizontal	Pass
5	12339.317	47.25	74.0	26.75	Peak	281.00	400	Horizontal	Pass
5**	12339.317	37.84	54.0	16.17	AV	281.00	400	Horizontal	Pass
6	16345.586	50.82	74.0	23.18	Peak	45.00	300	Horizontal	Pass
6**	16345.586	43.25	54.0	10.76	AV	45.00	300	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1317.002	41.62	74.0	32.38	Peak	205.00	100	Vertical	Pass
1**	1317.002	33.15	54.0	20.85	AV	205.00	100	Vertical	Pass
2	2580.341	50.28	74.0	23.72	Peak	133.00	400	Vertical	Pass
2**	2580.341	41.39	54.0	12.62	AV	133.00	400	Vertical	Pass
3	6332.999	49.89	74.0	24.11	Peak	168.00	200	Vertical	Pass
3**	6332.999	40.61	54.0	13.39	AV	168.00	200	Vertical	Pass
4	5160.868	48.15	74.0	25.85	Peak	17.00	100	Vertical	Pass
4**	5160.868	39.53	54.0	14.47	AV	17.00	100	Vertical	Pass
5	13983.051	48.86	74.0	25.14	Peak	50.00	400	Vertical	Pass
5**	13983.051	39.43	54.0	14.57	AV	50.00	400	Vertical	Pass
6	17357.469	50.92	74.0	23.08	Peak	189.00	300	Vertical	Pass
6**	17357.469	41.88	54.0	12.12	AV	189.00	300	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1313.247	41.42	74.0	32.58	Peak	64.00	400	Horizontal	Pass
1**	1313.247	33.32	54.0	20.68	AV	64.00	400	Horizontal	Pass
2	2584.745	50.11	74.0	23.89	Peak	295.00	400	Horizontal	Pass
2**	2584.745	41.44	54.0	12.56	AV	295.00	400	Horizontal	Pass
3	6330.531	49.81	74.0	24.19	Peak	65.00	200	Horizontal	Pass
3**	6330.531	40.73	54.0	13.27	AV	65.00	200	Horizontal	Pass
4	5162.555	48.24	74.0	25.76	Peak	293.00	200	Horizontal	Pass
4**	5162.555	39.64	54.0	14.36	AV	293.00	200	Horizontal	Pass
5	13983.109	48.93	74.0	25.07	Peak	74.00	200	Horizontal	Pass
5**	13983.109	39.66	54.0	14.34	AV	74.00	200	Horizontal	Pass
6	17354.648	51.05	74.0	22.95	Peak	17.00	200	Horizontal	Pass
6**	17354.648	41.90	54.0	12.10	AV	17.00	200	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1317.404	41.38	74.0	32.62	Peak	95.00	300	Vertical	Pass
1**	1317.404	32.97	54.0	21.03	AV	95.00	300	Vertical	Pass
2	2583.300	49.96	74.0	24.04	Peak	86.00	200	Vertical	Pass
2**	2583.300	41.53	54.0	12.47	AV	86.00	200	Vertical	Pass
3	6334.600	50.11	74.0	23.89	Peak	26.00	200	Vertical	Pass
3**	6334.600	40.53	54.0	13.47	AV	26.00	200	Vertical	Pass
4	5162.845	48.68	74.0	25.32	Peak	26.00	200	Vertical	Pass
4**	5162.845	39.44	54.0	14.56	AV	26.00	200	Vertical	Pass
5	13985.338	49.09	74.0	24.91	Peak	252.00	200	Vertical	Pass
5**	13985.338	39.89	54.0	14.11	AV	252.00	200	Vertical	Pass
6	17356.369	50.77	74.0	23.23	Peak	207.00	200	Vertical	Pass
6**	17356.369	42.39	54.0	11.61	AV	207.00	200	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1316.110	41.51	74.0	32.49	Peak	269.00	100	Horizontal	Pass
1**	1316.110	33.19	54.0	20.81	AV	269.00	100	Horizontal	Pass
2	2584.616	50.28	74.0	23.72	Peak	41.00	100	Horizontal	Pass
2**	2584.616	41.40	54.0	12.60	AV	41.00	100	Horizontal	Pass
3	6330.454	49.67	74.0	24.33	Peak	213.00	200	Horizontal	Pass
3**	6330.454	40.90	54.0	13.10	AV	213.00	200	Horizontal	Pass
4	5160.583	48.70	74.0	25.30	Peak	303.00	300	Horizontal	Pass
4**	5160.583	39.36	54.0	14.64	AV	303.00	300	Horizontal	Pass
5	13985.476	48.92	74.0	25.08	Peak	29.00	300	Horizontal	Pass
5**	13985.476	39.90	54.0	14.10	AV	29.00	300	Horizontal	Pass
6	17361.427	51.32	74.0	22.68	Peak	275.00	200	Horizontal	Pass
6**	17361.427	42.31	54.0	11.69	AV	275.00	200	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1311.264	41.91	74.0	32.09	Peak	244.00	300	Vertical	Pass
1**	1311.264	32.91	54.0	21.09	AV	244.00	300	Vertical	Pass
2	2583.084	50.24	74.0	23.76	Peak	341.00	100	Vertical	Pass
2**	2583.084	41.32	54.0	12.68	AV	341.00	100	Vertical	Pass
3	6337.850	49.63	74.0	24.37	Peak	41.00	200	Vertical	Pass
3**	6337.850	40.73	54.0	13.27	AV	41.00	200	Vertical	Pass
4	5160.270	48.66	74.0	25.34	Peak	238.00	300	Vertical	Pass
4**	5160.270	39.71	54.0	14.30	AV	238.00	300	Vertical	Pass
5	13984.289	48.76	74.0	25.24	Peak	281.00	400	Vertical	Pass
5**	13984.289	39.63	54.0	14.37	AV	281.00	400	Vertical	Pass
6	17354.646	51.26	74.0	22.74	Peak	127.00	400	Vertical	Pass
6**	17354.646	42.39	54.0	11.62	AV	127.00	400	Vertical	Pass

A.8 Frame Repetition Stability, Period and Jitter

Test Data

The Frame Repetition Stability is measured with the CMD60. The Frame Repetition Stability is 3 times the standard deviation.

ANT1

Channel	Standard Deviation (ppm)	Frame Repetition (ppm)	The Limit of Frame Repetition Stability (ppm)	Verdict
Middle	0.27	0.8	±10	Pass

Channel	Frame Period (ms)	Max Jitter (μs)	3xStandard Deviation of Jitter (μs)	Limit (μs)		Verdict
				Max Jitter	3 times St.Dev. of Jitter	
Middle	10	0.1	0.01	25	12.5	Pass

Max Jitter = $(1/(\text{Frame Period} + \text{Pk-Pk})/2) - (1/\text{Frame Period})$, when Pk-Pk and Frame Period are in Hz.

3 x St. Dev. Jitter = $3 \times (1/(\text{Frame Period} + \text{St. Dev})) - (1/\text{St. Dev}) \times 10^6$

ANT2

Channel	Standard Deviation (ppm)	Frame Repetition (ppm)	The Limit of Frame Repetition Stability (ppm)	Verdict
Middle	0.30	0.9	±10	Pass

Channel	Frame Period (ms)	Max Jitter (μs)	3xStandard Deviation of Jitter (μs)	Limit (μs)		Verdict
				Max Jitter	3 times St.Dev. of Jitter	
Middle	10	0.1	0.01	25	12.5	Pass

Max Jitter = $(1/(\text{Frame Period} + \text{Pk-Pk})/2) - (1/\text{Frame Period})$, when Pk-Pk and Frame Period are in Hz.

3 x St. Dev. Jitter = $3 \times (1/(\text{Frame Period} + \text{St. Dev})) - (1/\text{St. Dev}) \times 10^6$

A.9 Monitoring The Time

EUT monitors the combined time and spectrum window prior to initiation of transmission. The observation results as below

Channel Selection	Observation result	Verdict
1. Apply the interference on f1 at level TU +UM, and no interference on f2. Initiate transmission and verify the transmission on f2.	EUT transmission on f2	Pass
2. Apply interference on f2 at a level of TU +UM, in-band, and immediately remove all interference from f1 and immediately (but not sooner than 20 ms after the interference on f2 is applied) cause the EUT to attempt transmission.	EUT transmission on f1	Pass

A.10 Monitoring Threshold

Calculation of Monitoring Threshold Limit:

Lower Threshold:

$$TL < = 15 \log B - 184 + 30 - P_{EUT} \text{ (dBm)}$$

B is measured Emission Bandwidth in Hz

P_{EUT} is measured Transmitter Power in dBm

The Lower Threshold is applicable for systems which have defined less than 40 duplex system access channels. The Upper Threshold is applicable for systems with more than 40 duplex system access channels and that implements the Least Interfered Channel Procedure (LIC).

Test Data

Monitor Threshold	Measured Level (dBm)	Limit(dBm)	Verdict
Lower threshold	N/A	Lower threshold + 6 dB	N/A ^{Note}

Note: For the EUT which support LIC there is no need to measure lower threshold because it is automatically met by LIC procedure

A.11 Maximum Transmit Period

Test Data

Test ref. to ANSI C63.17: 2013 clause 8.2.2	Observation result (H)	Limit (H)	Verdict
Transmission duration on same time and frequency window	4	8	Pass

A.12 Acknowledgment System

Test Data

Test ref. to ANSI C63.17: 2013 clause 8.2.1	Observation result (s)	Verdict
Initial transmission without acknowledgements	1.22	Pass
Transmission time after loss of acknowledgements	4.99	Pass

A.13 Least Interfered Channel, LIC

Calculation of Monitoring Threshold Limit:

Lower Threshold:

$$TL \leq 15 \log B - 184 + 30 - P_{EUT} \text{ (dBm)}$$

B is measured Emission Bandwidth in Hz

P_{EUT} is measured Transmitter Power in dBm

Test Data

ANSI C63.17 clause 7.3.2 ref.	EUT transmits on	Verdict
f1 at TL + 13 dB, f2 at TL + 6 dB	f2	Pass
f1 at TL + 6 dB, f2 at TL + 13 dB	f1	Pass
f1 at TL + 7 dB, f2 at TL	f2	Pass
f1 at TL, f2 at TL + 7 dB	f1	Pass

A.14 Random Waiting

Test Data

Random Waiting is not implemented in the EUT.

Conditions	Transmits Channel	Verdict
Interference applied at operating Channel, f1	f2	Pass

A.15 Monitoring Bandwidth and Reaction Time

Monitoring bandwidth

This test is only required if a dedicated monitoring receiver is used. If the test is not carried out the manufacturer shall declare and provide evidence that the monitoring is made through the radio receiver used for communication.

The test is passed if either the Simple Compliance Test or the More Detailed Test is passed.

During this test the spectrum analyzer is observed visually to see if the EUT transmits or not.

The More Detailed Test must be pass at both the -6 dB and -12 dB points if the Simple Compliance Test fails.

Test Data

Test performed	Observation result	Verdict
Simple Compliance test, at $\pm 30\%$ of B	N/A	N/A
More Detailed Test, at -6 dB points	N/A	N/A
More Detailed Test, at -12 dB points	N/A	N/A

Note 1: The tested EUT uses the same receiver for monitoring and communication, this test is therefore not required.

Note 2: The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended Transmission.

Reaction Time

By administrative commands and out-of-operating region interference, the EUT is restricted to operate on a single carrier frequency.

Time-synchronized pulsed interference was then applied on the carrier at pulsed levels TU + UM to check that the EUT does not transmit. The level was raised 6 dB for part d) with 35 μ s pulses.

The pulses are synchronized with the EUT timeslots and applied cantered within all timeslots.

Test Data

Test performed	Observation result	Verdict
c) > largest of 50 μ s and $50 \cdot \text{SQRT}(1.25/B)$	No transmissions	Pass
d) > largest of 35 μ s and $35 \cdot \text{SQRT}(1.25/B)$, and with interference level raised 6 dB	No transmissions	Pass

Note: Since B is larger than 1.25 MHz the test was performed with pulse lengths of 50 μ s and 35 μ s.

A.16 Monitoring Antenna

Note: EUT uses the same antenna used for transmission and monitoring that is in compliance meet above provision.

A.17 Duplex System LBT

The manufacturer declares that this provision is not utilized by the EUT.

EUT that implement the LIC algorithm

Test ref. to ANSI C63.17 clause 8.3.1	Observation result	Verdict
b) EUT is restricted to a single carrier f1 for TDMA systems. The test is pass if the EUT can set up a communication link	EUT can transmit	Pass
c) d) Transmission on interference-free receive time/spectrum window.	Transmission on interference-free receive time window	Pass
e) f) Transmission on interference-free transmit time/spectrum window.	Transmission on interference-free transmit time window	Pass

This test is only applicable for EUTs that can be an initiating device for duplex connections.

A.18 Co-located Device LBT

Note: Not appropriate, as the system always monitor both the transmit and receive time/spectrum windows, it is not a co-located device.

A.19 Fair Access

Note: Not tested. The tested EUT does not implement this provision. See manufacturer's declaration.

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26040092-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26040092-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26040092-AI.PDF”.

Statement

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--END OF REPORT--