TEST REPORT

Application No.:	GZCR2112021585AT
Applicant:	SHENZHEN ISD TECHNOLOGY CO.,LTD
Address of Applicant:	5th Floor, Yutian Building,No.18 Yangtian Road, Xin'an Street, Baoan District, Shenzhen, Guangdong 518133 China
Manufacturer:	SHENZHEN ISD TECHNOLOGY CO.,LTD
Address of Manufacturer:	5th Floor, Yutian Building,No.18 Yangtian Road, Xin'an Street, Baoan District, Shenzhen, Guangdong 518133 China
Factory:	Shenzhen HYUDA Electronics&Technology Co.,Ltd
Address of Factory:	B1 Building,Xinhongtai Industrial Park,No.14 Jianan Road,Fuyong Town,Baoan District,Shenzhen City, China
Equipment Under Test (EUT):	
EUT Name:	Electronic Speed Controller
Model No.:	ESC80, ESC70, ESC60 ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	ISDT
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2021-11-15
Date of Test:	2021-11-16 to 2022-01-04
Date of Issue:	2022-01-05
Test Result:	**Pass***

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

Kobe Jian
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		*2022-01-05*		*Original*

Authorized for issue by:				
		 **Curry Wu/Project Engineer**		
		 **Ricky Liu/Reviewer**		

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center EEC Laboratory

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1.3	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Declaration of EUT Family Grouping:

Model No.: ESC80, ESC70, ESC60

Only the model ESC70 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with difference on model No. and software, the software is the app for the EUT only difference on the app name.

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3 Contents

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 7.4V by battery.
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 LE
Modulation Type:	GFSK
Number of Channels:	40
Date Rate:	1Mbps, 2Mbps
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Electronic Speed Control Unit	ISD	esc70	--

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 4.52dB (1GHz-6GHz);± 4.54dB (above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m)
Radiated Spurious Emissions (Above 1GHz)	± 4.52dB (1GHz-6GHz);± 4.54dB (above 6GHz)
Remark: The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Peak Output Power					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Power Spectrum Density					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Band Edges Measurement					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Spurious Emissions					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

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Radiated Emissions which fall in the restricted bands					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

Radiated Spurious Emissions (Below 1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-12-17	2022-12-16
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25

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Radiated Spurious Emissions (Above 1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1.3

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52.7 % RH Atmospheric Pressure: 1003 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

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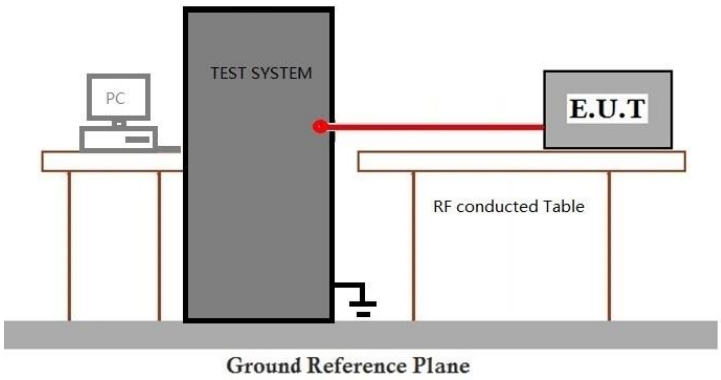
7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

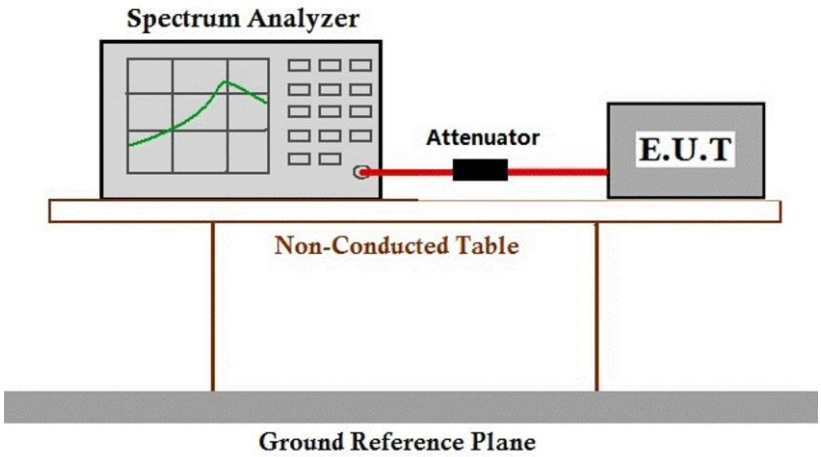
Operating Environment:

Temperature: 21.5 °C Humidity: 52.7 % RH Atmospheric Pressure: 1003 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

cable loss=0.9dB

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7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

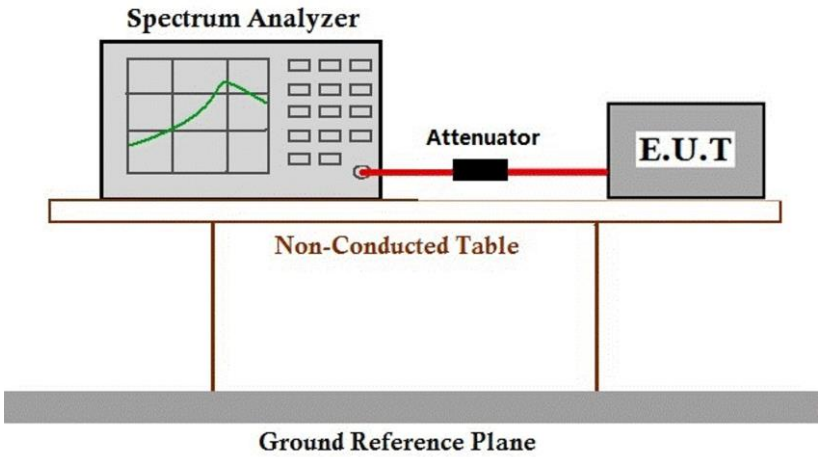
Operating Environment:

Temperature: 21.5 °C Humidity: 52.7 % RH Atmospheric Pressure: 1003 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

cable loss=0.9dB

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7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.4.1 E.U.T. Operation

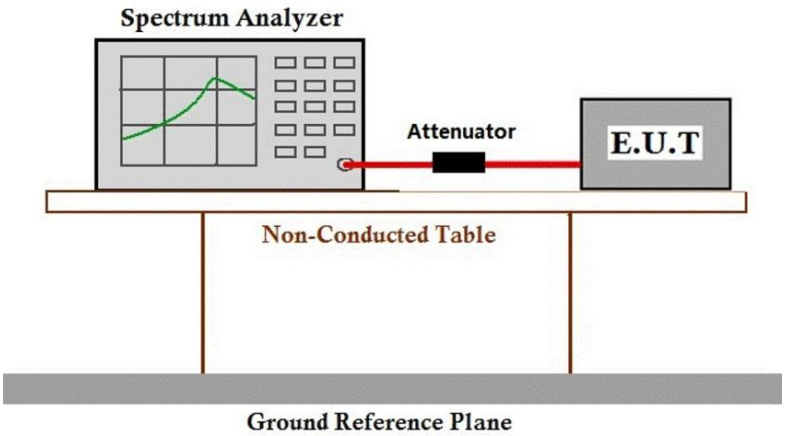
Operating Environment:

Temperature: 21.5 °C Humidity: 52.7 % RH Atmospheric Pressure: 1003 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

cable loss=0.9dB

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7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.5.1 E.U.T. Operation

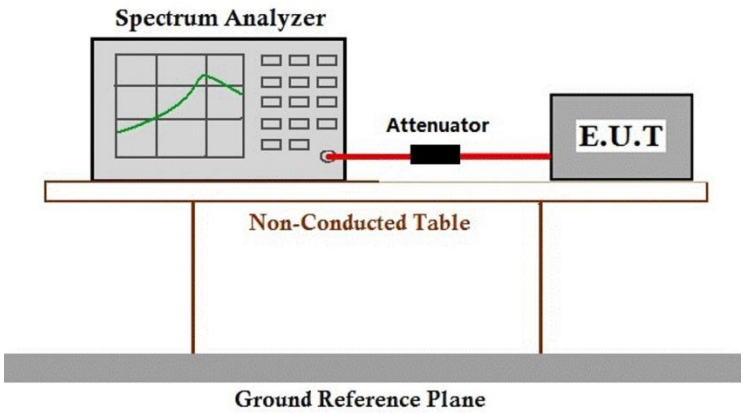
Operating Environment:

Temperature: 21.5 °C Humidity: 52.7 % RH Atmospheric Pressure: 1003 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

cable loss=0.9dB

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7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.10.5
Measurement Distance: 3m
Limit:

Frequency(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
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.		

7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 53.1 % RH Atmospheric Pressure: 1003 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

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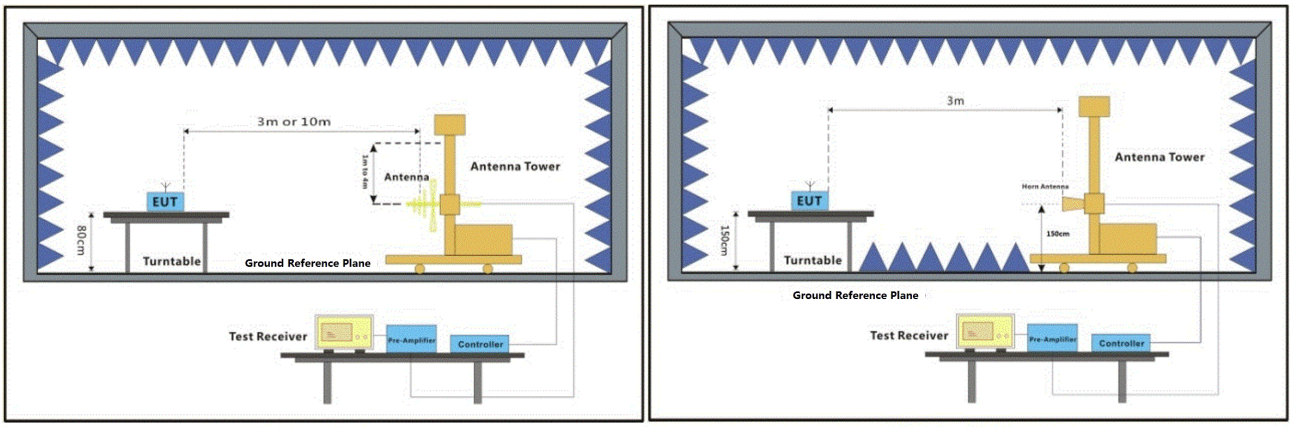
7.6.3 Test Setup Diagram



30MHz-1GHz Above 1GHz

7.6.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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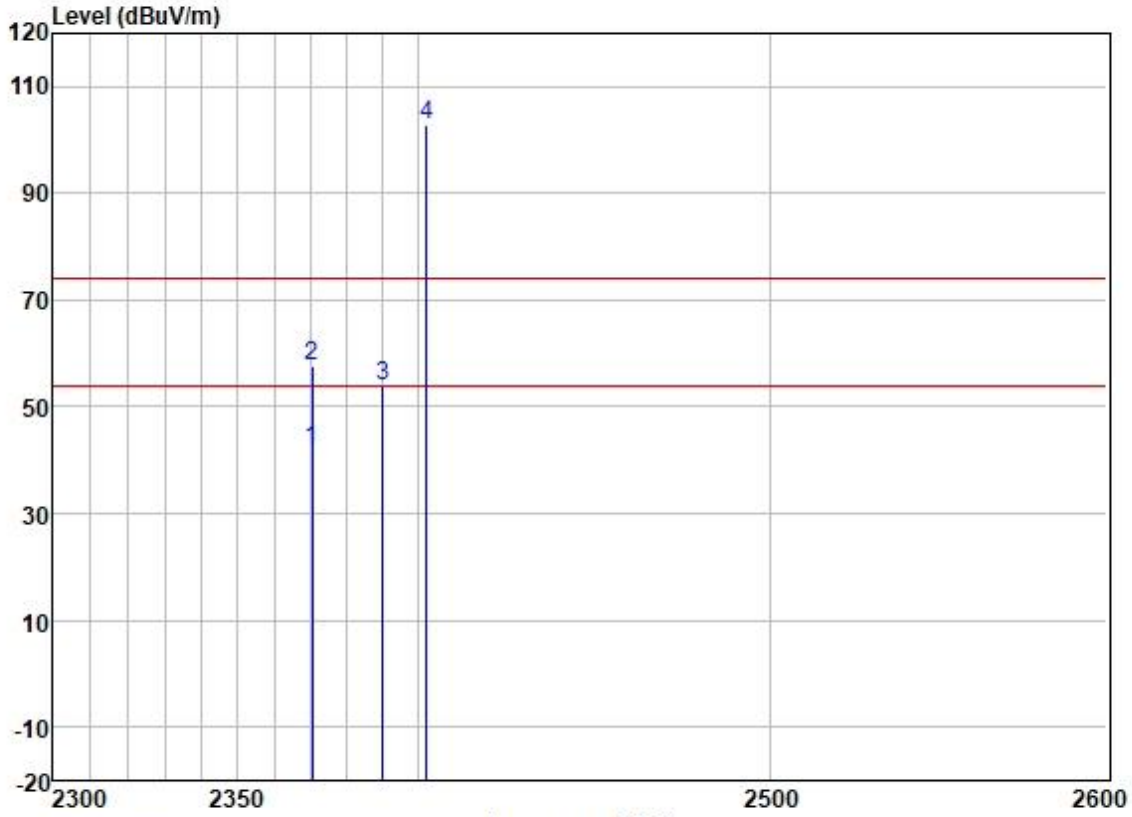
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com
Member of the SGS Group (SGS SA)

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2370.294	48.65	27.30	3.45	37.60	41.80	54.00	-12.20	HORIZONTAL	Average
2	2370.294	64.41	27.30	3.45	37.60	57.56	74.00	-16.44	HORIZONTAL	Peak
3	2390.000	60.53	27.33	3.48	37.59	53.75	74.00	-20.25	HORIZONTAL	Peak
4 *	2402.000	109.67	27.35	3.50	37.59	102.93	74.00	28.93	HORIZONTAL	Peak

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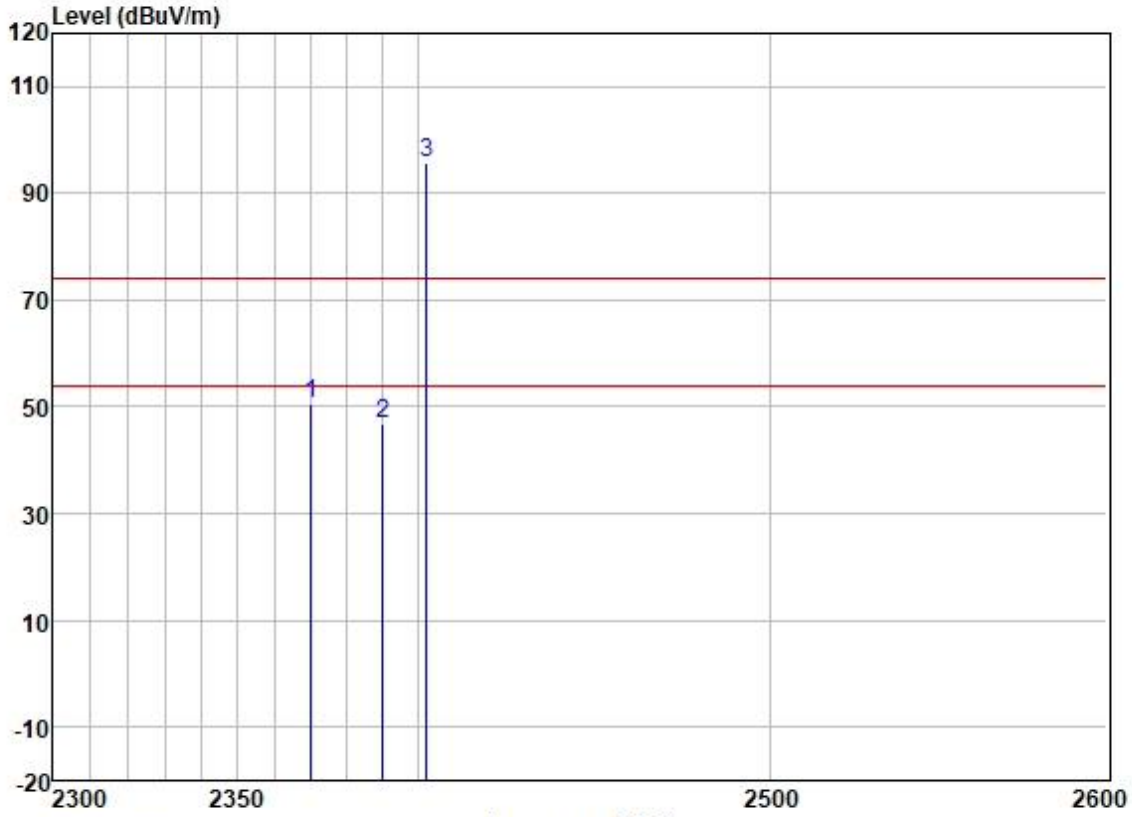
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



race: (Discrete)

		Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1		2369.993	57.53	27.30	3.45	37.60	50.68	74.00	-23.32	VERTICAL	Peak
2		2390.000	53.56	27.33	3.48	37.59	46.78	74.00	-27.22	VERTICAL	Peak
3	*	2402.000	102.56	27.35	3.50	37.59	95.82	74.00	21.82	VERTICAL	Peak

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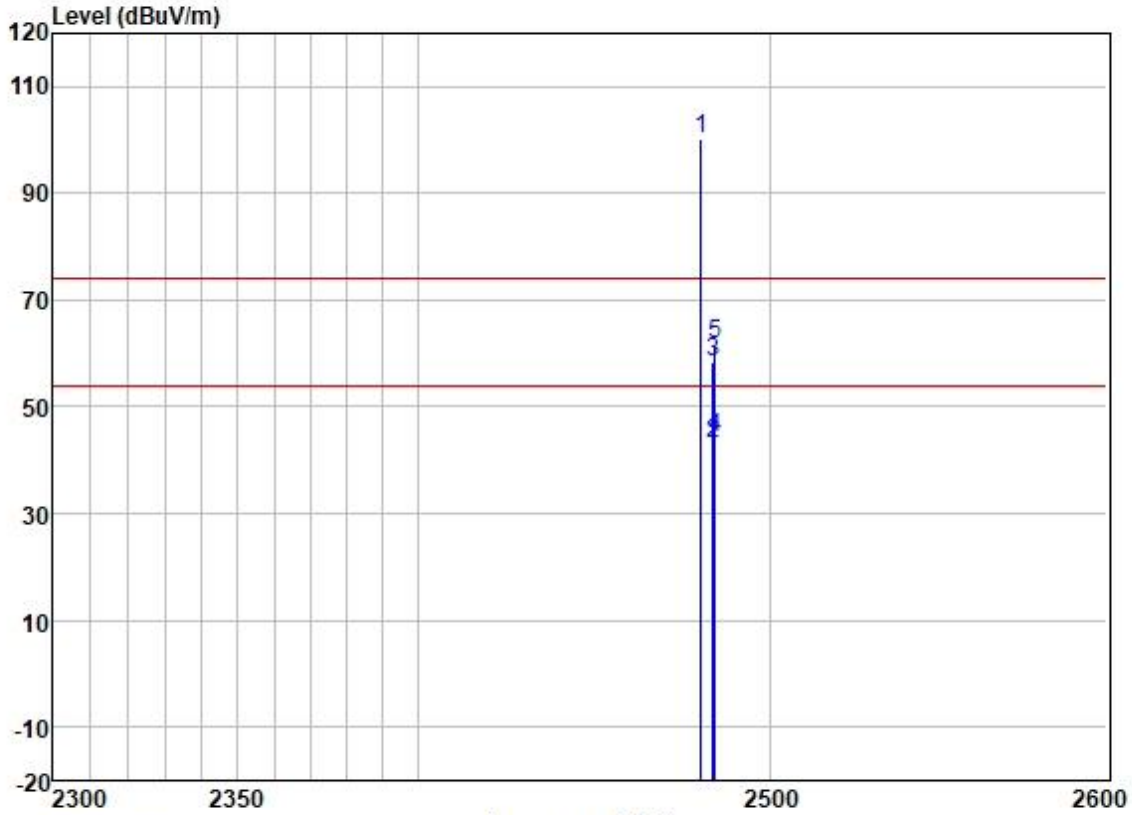
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	106.89	27.47	3.60	37.57	100.39	74.00	26.39	HORIZONTAL	Peak
2	2483.500	49.71	27.48	3.53	37.57	43.15	54.00	-10.85	HORIZONTAL	Average
3	2483.500	65.09	27.48	3.53	37.57	58.53	74.00	-15.47	HORIZONTAL	Peak
4	2483.996	50.81	27.48	3.53	37.57	44.25	54.00	-9.75	HORIZONTAL	Average
5	2483.996	68.14	27.48	3.53	37.57	61.58	74.00	-12.42	HORIZONTAL	Peak

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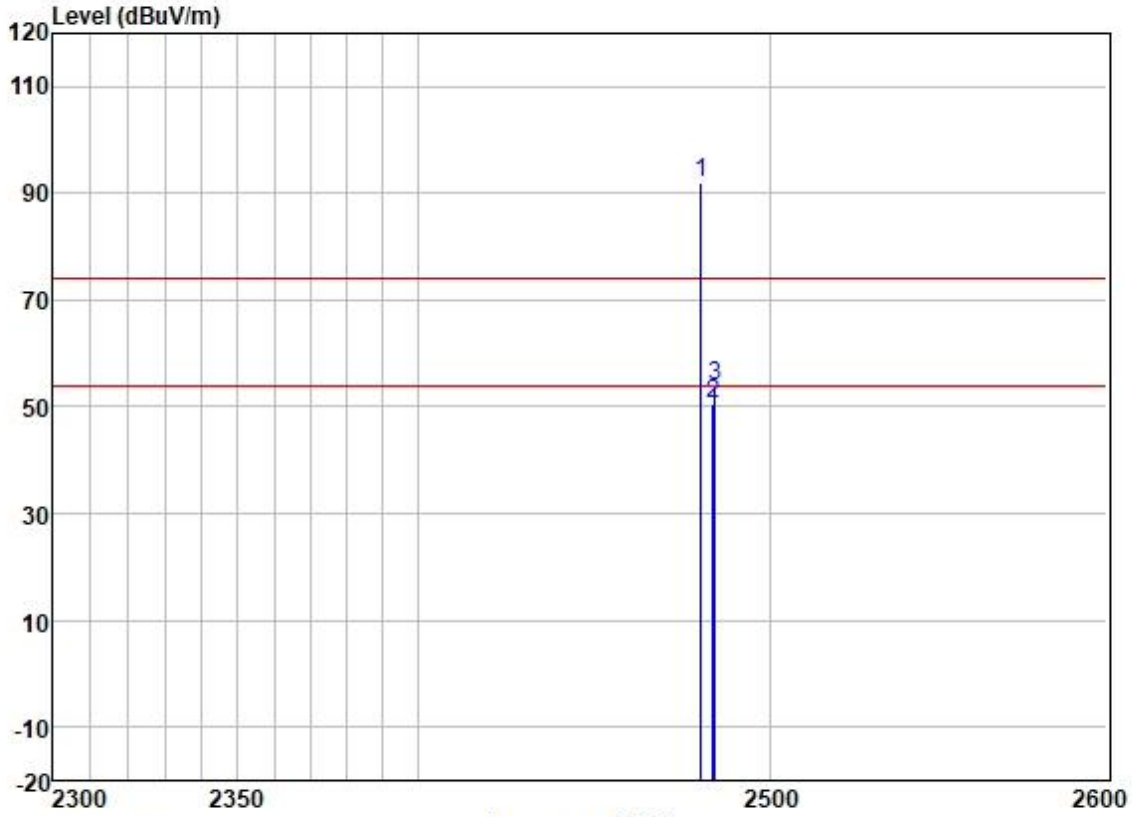
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	98.39	27.47	3.60	37.57	91.89	74.00	17.89	VERTICAL	Peak
2	2483.500	57.10	27.48	3.53	37.57	50.54	74.00	-23.46	VERTICAL	Peak
3	2484.146	60.56	27.48	3.53	37.57	54.00	74.00	-20.00	VERTICAL	Peak

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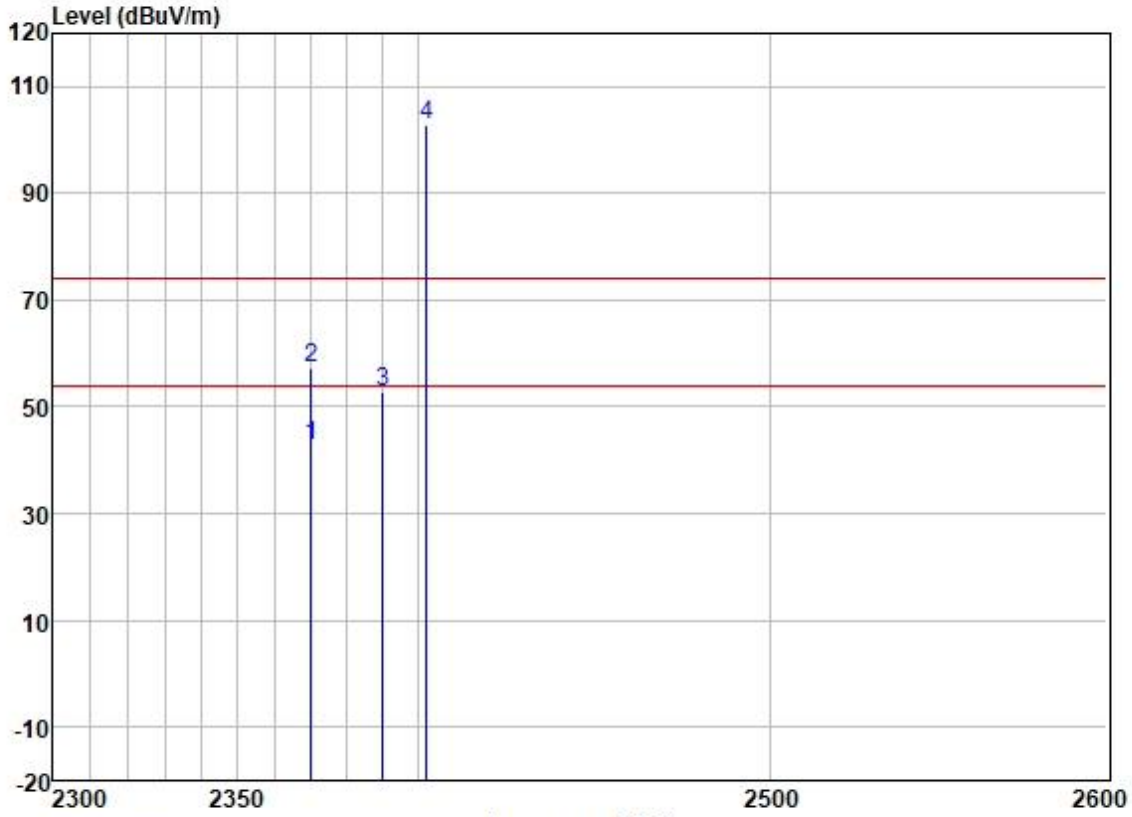
Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2369.993	49.60	27.30	3.45	37.60	42.75	54.00	-11.25	HORIZONTAL	Average
2	2369.993	63.96	27.30	3.45	37.60	57.11	74.00	-16.89	HORIZONTAL	Peak
3	2390.000	59.50	27.33	3.48	37.59	52.72	74.00	-21.28	HORIZONTAL	Peak
4 *	2402.000	109.56	27.35	3.50	37.59	102.82	74.00	28.82	HORIZONTAL	Peak

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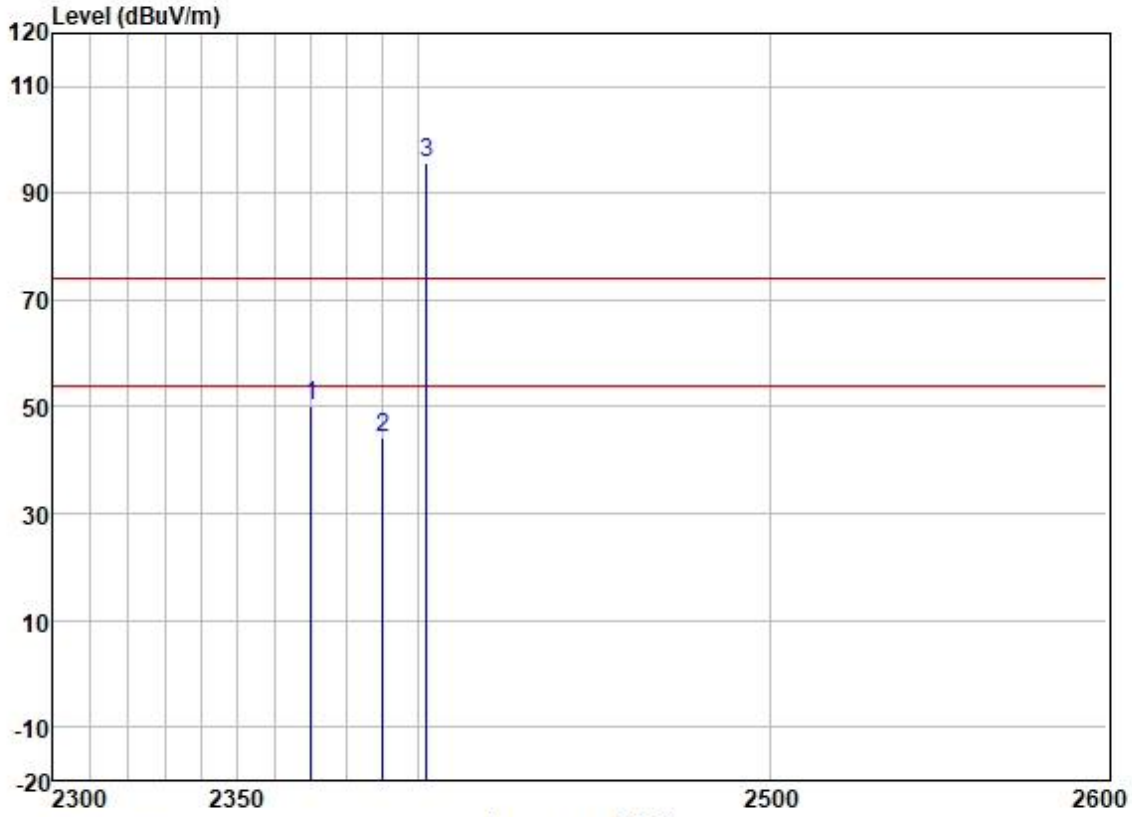
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2370.093	57.22	27.30	3.45	37.60	50.37	74.00	-23.63	VERTICAL	Peak
2	2390.000	50.91	27.33	3.48	37.59	44.13	74.00	-29.87	VERTICAL	Peak
3 *	2402.000	102.45	27.35	3.50	37.59	95.71	74.00	21.71	VERTICAL	Peak

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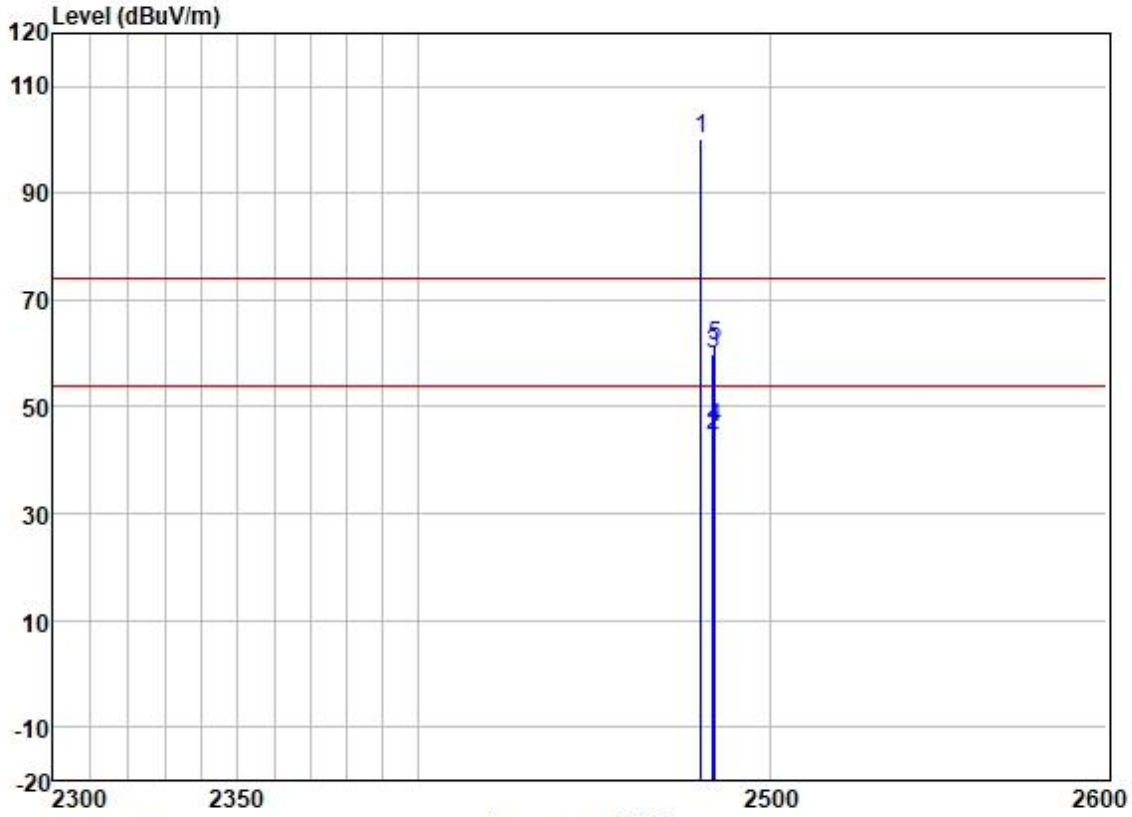
Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	106.88	27.47	3.60	37.57	100.38	74.00	26.38	HORIZONTAL	Peak
2	2483.500	51.26	27.48	3.53	37.57	44.70	54.00	-9.30	HORIZONTAL	Average
3	2483.500	66.45	27.48	3.53	37.57	59.89	74.00	-14.11	HORIZONTAL	Peak
4	2483.896	52.80	27.48	3.53	37.57	46.24	54.00	-7.76	HORIZONTAL	Average
5	2483.896	67.80	27.48	3.53	37.57	61.24	74.00	-12.76	HORIZONTAL	Peak

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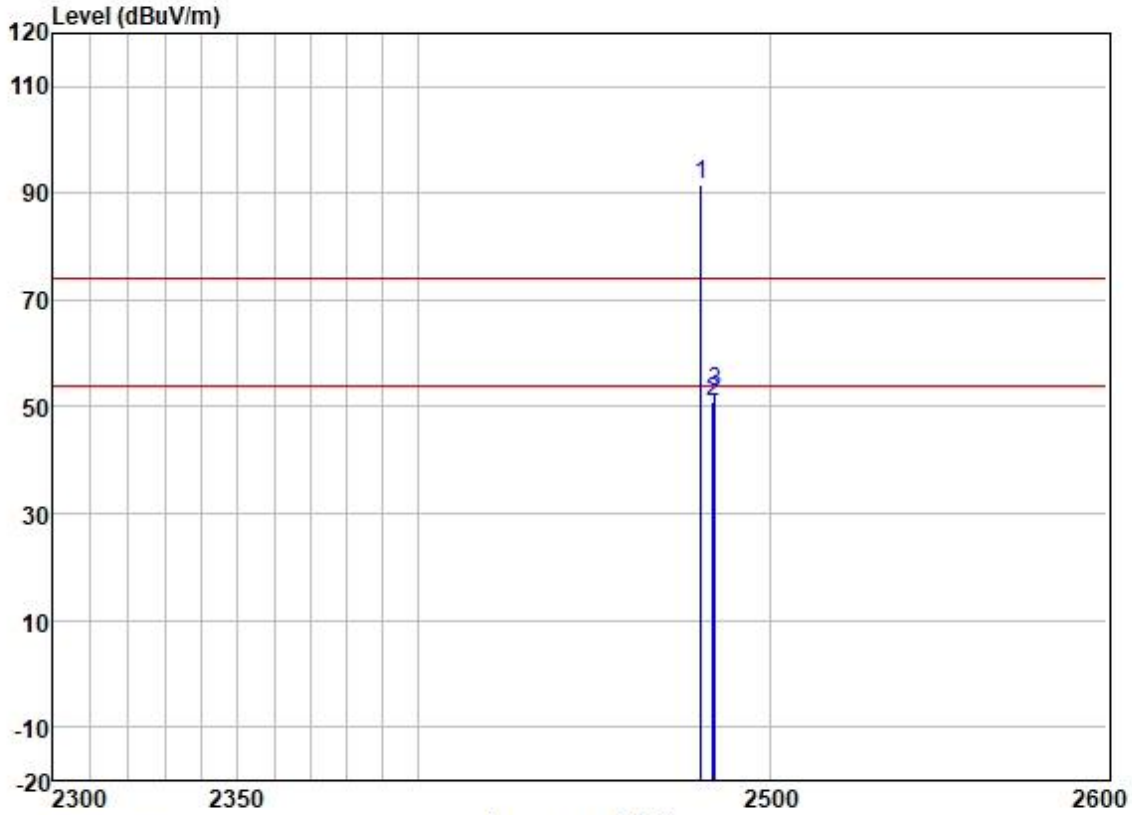
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	98.20	27.47	3.60	37.57	91.70	74.00	17.70	VERTICAL	Peak
2	2483.500	57.57	27.48	3.53	37.57	51.01	74.00	-22.99	VERTICAL	Peak
3	2483.921	59.24	27.48	3.53	37.57	52.68	74.00	-21.32	VERTICAL	Peak

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7.7 Radiated Spurious Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

Frequency(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
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.		

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1003 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

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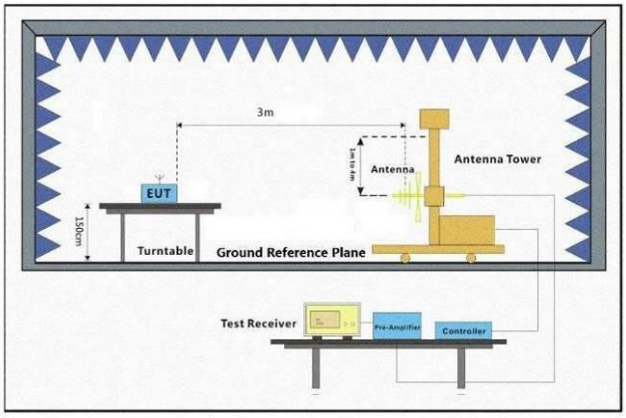
7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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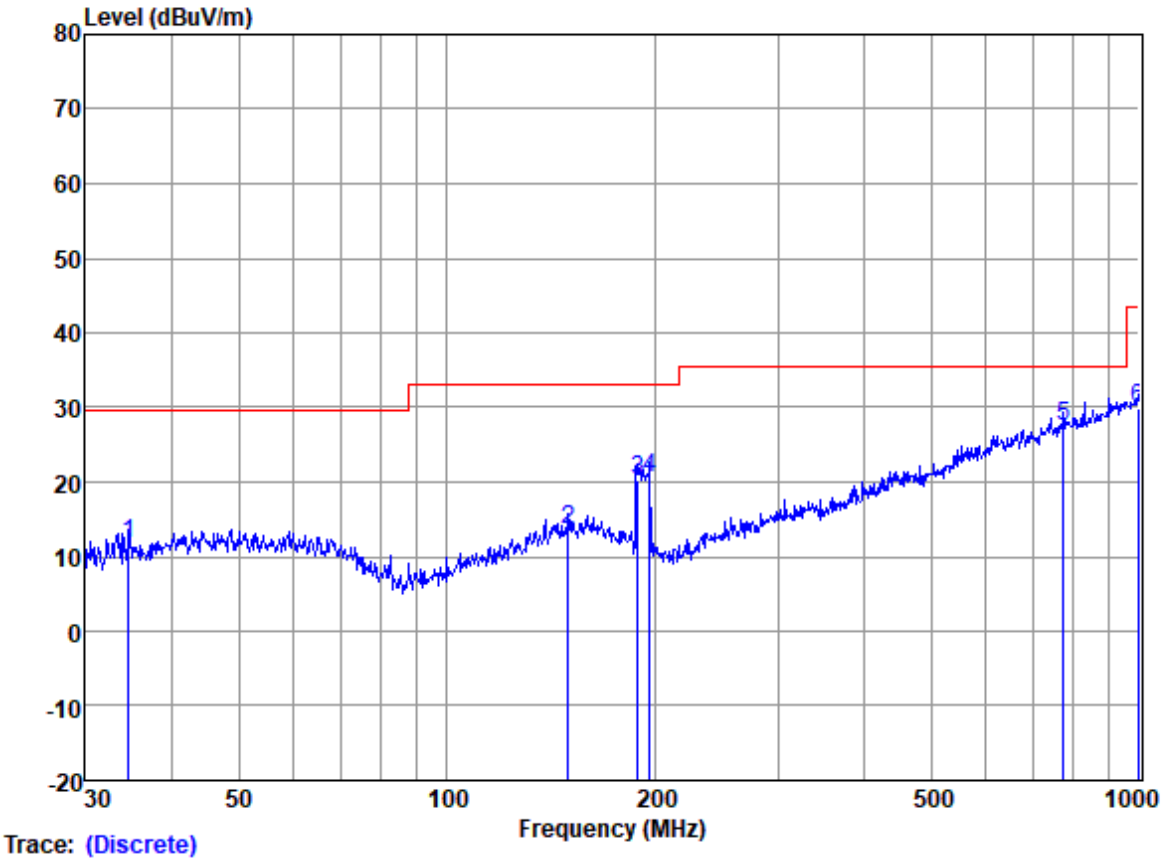
Member of the SGS Group (SGS SA)

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	34.64	24.97	12.86	1.07	27.18	11.72	29.50	-17.78	HORIZONTAL	QP
2	149.49	24.48	13.78	2.22	26.84	13.64	33.10	-19.46	HORIZONTAL	QP
3	188.41	33.53	11.07	2.48	26.74	20.34	33.10	-12.76	HORIZONTAL	QP
4	195.82	34.25	10.60	2.51	26.73	20.63	33.10	-12.47	HORIZONTAL	QP
5	776.88	27.08	22.28	6.08	28.05	27.39	35.60	-8.21	HORIZONTAL	QP
6	996.50	25.81	24.27	7.43	27.66	29.85	43.50	-13.65	HORIZONTAL	QP

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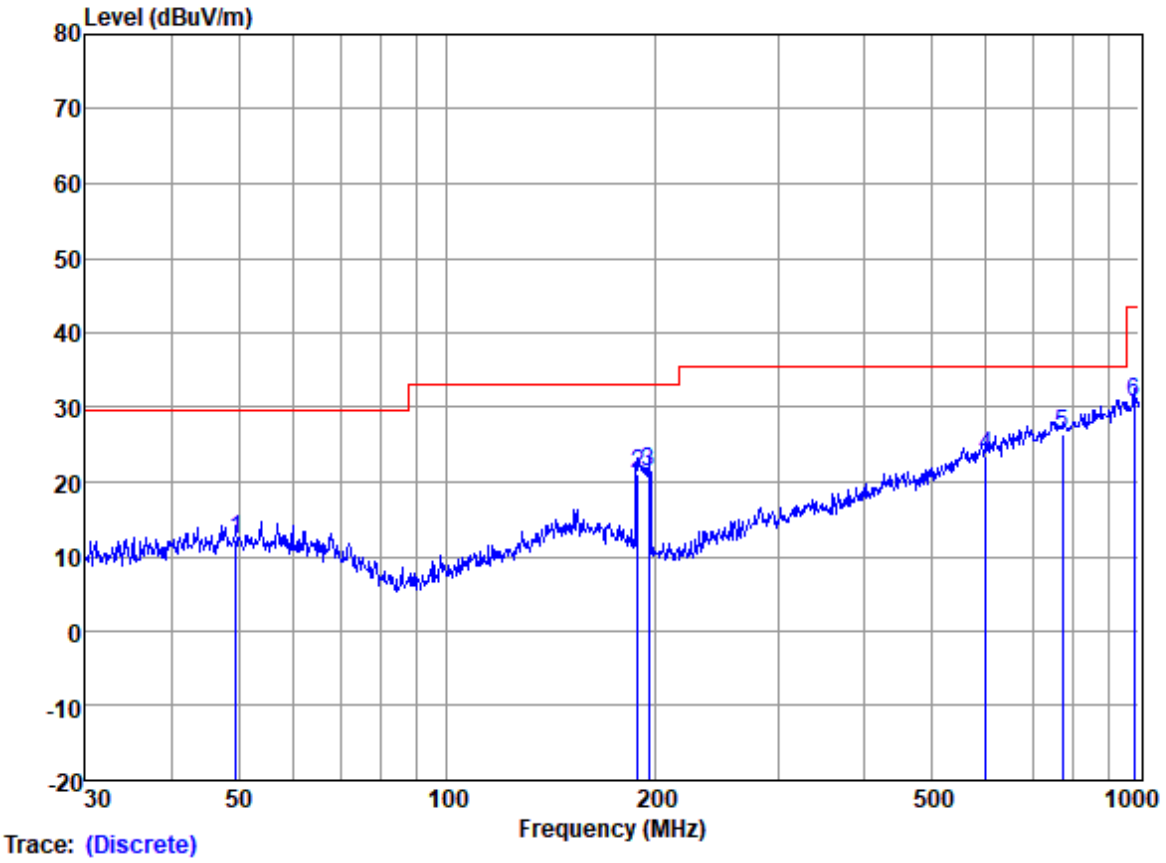
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	49.53	24.47	13.92	1.14	27.17	12.36	29.50	-17.14	HORIZONTAL	QP
2	188.41	34.39	11.07	2.48	26.74	21.20	33.10	-11.90	HORIZONTAL	QP
3	195.14	34.80	10.67	2.50	26.74	21.23	33.10	-11.87	HORIZONTAL	QP
4	599.32	26.62	19.90	5.14	28.21	23.45	35.60	-12.15	HORIZONTAL	QP
5	774.16	25.99	22.25	6.08	28.05	26.27	35.60	-9.33	HORIZONTAL	QP
6	982.62	26.82	24.13	7.31	27.68	30.58	43.50	-12.92	HORIZONTAL	QP

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Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
34.64	11.72	3.85	12.85	22.18	43.50	-21.32	H
149.49	13.64	4.81	16.03	24.10	43.50	-19.40	H
188.41	20.34	10.40	34.66	30.80	43.50	-12.70	H
195.82	20.63	10.75	35.84	31.09	46.00	-14.91	H
776.88	27.39	23.42	78.05	37.85	46.00	-8.15	H
996.50	29.85	31.08	103.60	40.31	54.00	-13.69	H
49.53	12.36	4.15	13.83	22.82	40.00	-17.18	V
188.41	21.20	11.48	38.27	31.66	43.50	-11.84	V
195.14	21.23	11.52	38.40	31.69	43.50	-11.81	V
599.32	23.45	14.88	49.59	33.91	46.00	-12.09	V
774.16	26.27	20.58	68.61	36.73	46.00	-9.27	V
982.62	30.58	33.81	112.69	41.04	54.00	-12.96	V

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$L_3 / L_{10} = D_{10} / D_3$

Note:

L_3: Level @ 3m distance. Unit: uV/m;

L_{10}: Level @ 10m distance. Unit: uV/m;

D_3: 3m distance. Unit: m

D_{10}: 10m distance. Unit: m

The level at 3m test distance is below:

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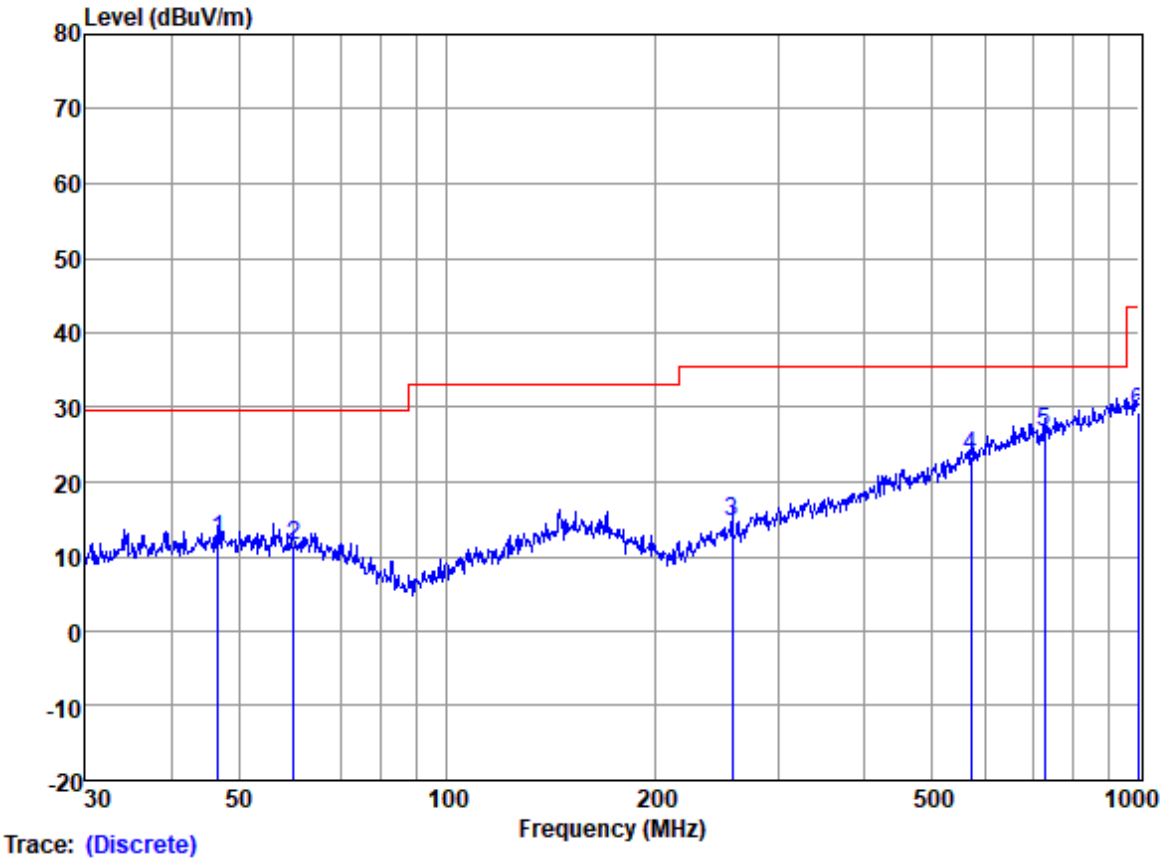
Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	46.67	24.33	13.93	1.13	27.17	12.22	29.50	-17.28	VERTICAL	QP
2	60.07	23.88	13.40	1.26	27.16	11.38	29.50	-18.12	VERTICAL	QP
3	258.33	26.10	12.17	2.97	26.60	14.64	35.60	-20.96	VERTICAL	QP
4	570.61	27.73	18.90	4.98	28.17	23.44	35.60	-12.16	VERTICAL	QP
5	729.36	27.16	21.80	5.89	28.13	26.72	35.60	-8.88	VERTICAL	QP
6	996.50	25.42	24.27	7.43	27.66	29.46	43.50	-14.04	VERTICAL	QP

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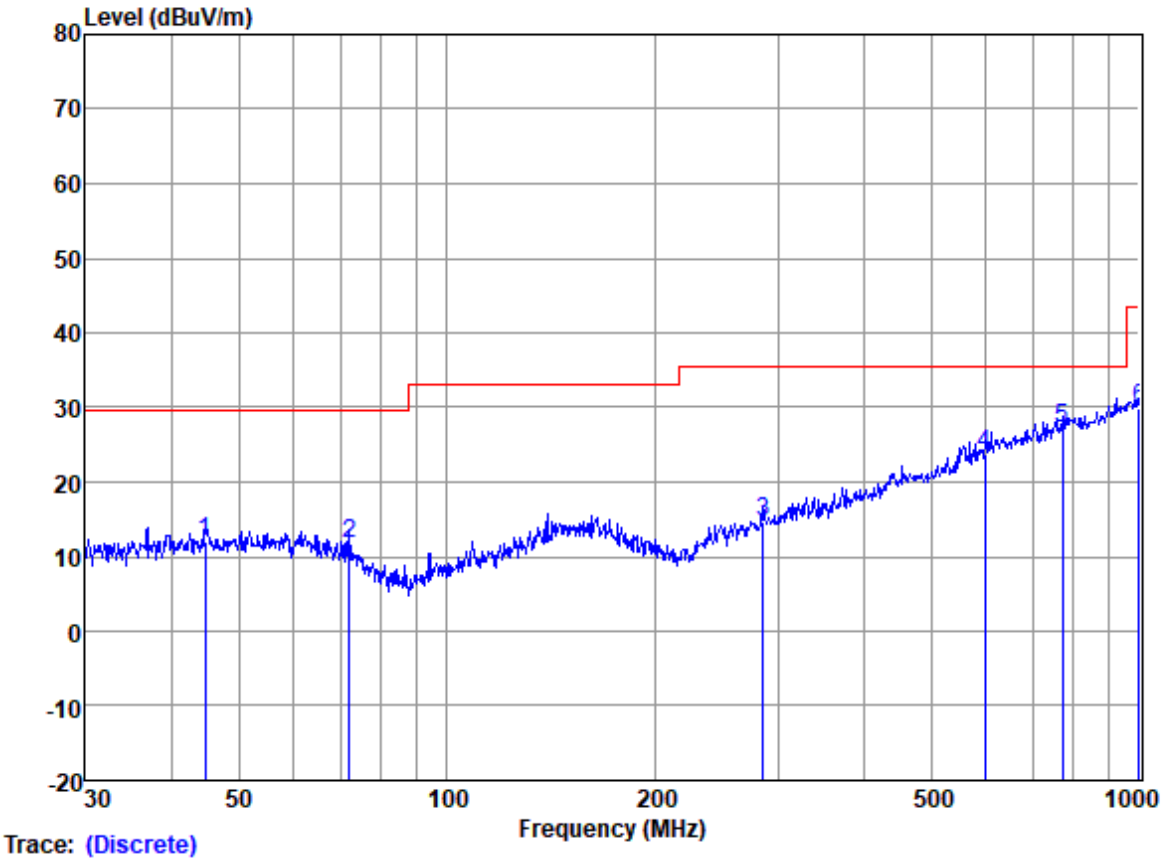
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	44.74	24.31	13.83	1.12	27.17	12.09	29.50	-17.41	VERTICAL	QP
2	72.08	25.85	11.50	1.43	27.12	11.66	29.50	-17.84	VERTICAL	QP
3	285.98	24.80	13.32	3.11	26.56	14.67	35.60	-20.93	VERTICAL	QP
4	597.22	27.02	19.80	5.14	28.21	23.75	35.60	-11.85	VERTICAL	QP
5	774.16	26.82	22.25	6.08	28.05	27.10	35.60	-8.50	VERTICAL	QP
6	1000.00	25.69	24.30	7.43	27.66	29.76	43.50	-13.74	VERTICAL	QP

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Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
46.67	12.22	4.08	13.61	22.68	40.00	-17.32	H
60.07	11.38	3.71	12.36	21.84	40.00	-18.16	H
258.33	14.64	5.40	17.98	25.10	46.00	-20.90	H
570.61	23.44	14.86	49.53	33.90	46.00	-12.10	H
729.36	26.72	21.68	72.26	37.18	46.00	-8.82	H
996.5	29.46	29.72	99.06	39.92	54.00	-14.08	H
44.74	12.09	4.02	13.41	22.55	40.00	-17.45	V
72.08	11.66	3.83	12.76	22.12	40.00	-17.88	V
285.98	14.67	5.41	18.05	25.13	46.00	-20.87	V
597.22	23.75	15.40	51.33	34.21	46.00	-11.79	V
774.16	27.10	22.65	75.49	37.56	46.00	-8.44	V
1000.00	29.76	30.76	102.54	40.22	54.00	-13.78	V

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$L_3 / L_{10} = D_{10} / D_3$

Note:

L_3: Level @ 3m distance. Unit: uV/m;

L_{10}: Level @ 10m distance. Unit: uV/m;

D_3: 3m distance. Unit: m

D_{10}: 10m distance. Unit: m

The level at 3m test distance is below:

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7.8 Radiated Spurious Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6
Measurement Distance: 3m
Limit:

Frequency(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
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.		

7.8.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 53.1 % RH Atmospheric Pressure: 1003 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

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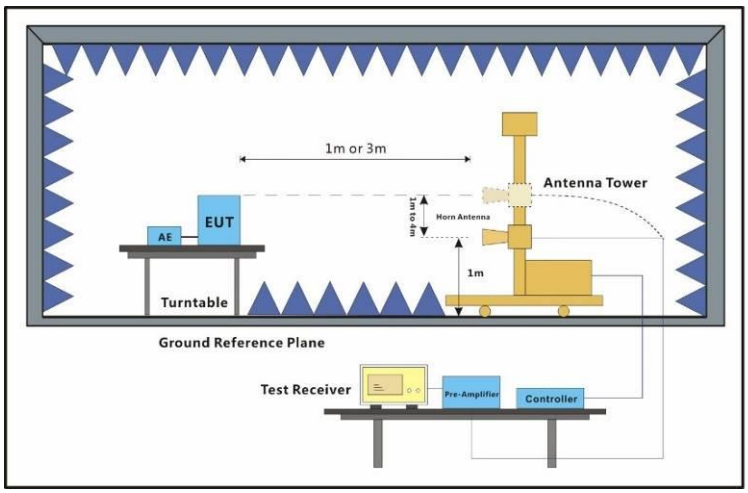
7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) The field strength limits are based on average limits. 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center, EEC Laboratory.

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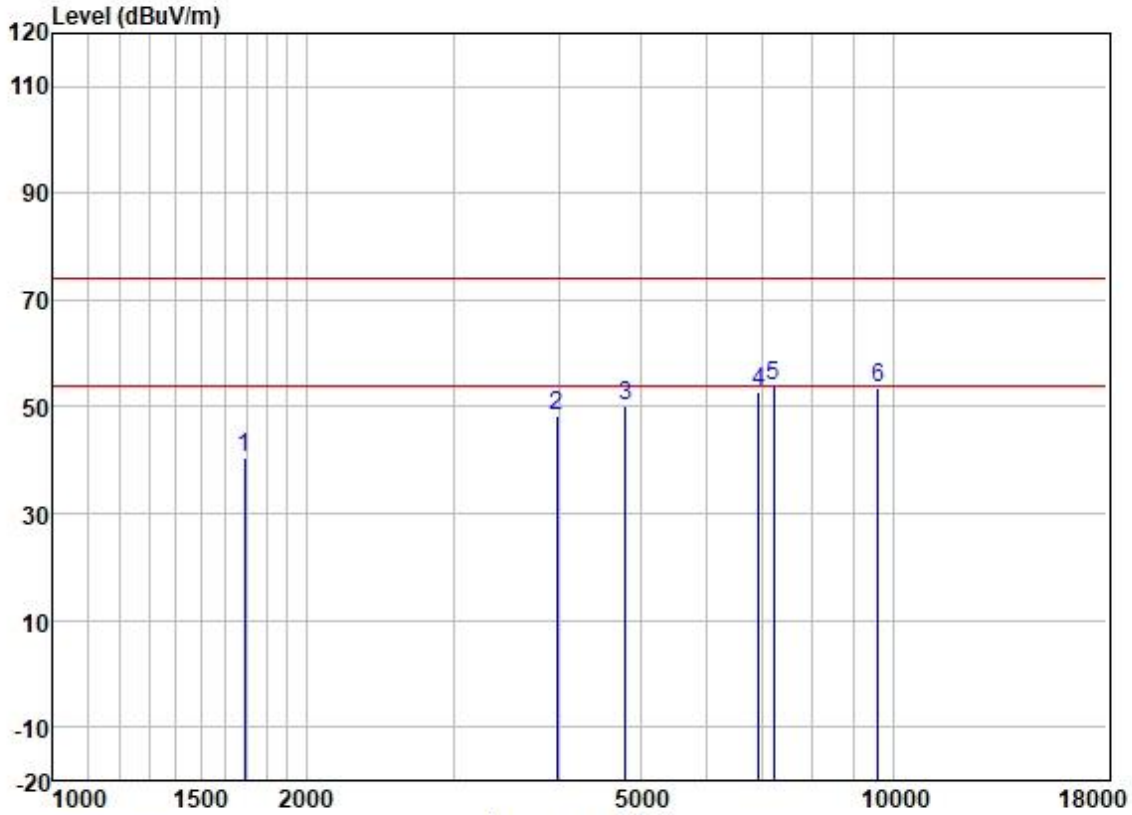
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1692.231	49.95	25.70	2.80	37.89	40.56	74.00	-33.44	HORIZONTAL	Peak
2	3981.257	50.65	29.78	4.60	36.81	48.22	74.00	-25.78	HORIZONTAL	Peak
3	4804.000	50.32	31.42	5.40	36.83	50.31	74.00	-23.69	HORIZONTAL	Peak
4	6914.763	49.33	34.89	5.81	37.19	52.84	74.00	-21.16	HORIZONTAL	Peak
5	7206.000	49.65	35.54	5.98	37.38	53.79	74.00	-20.21	HORIZONTAL	Peak
6	9608.000	45.39	38.37	7.07	37.42	53.41	74.00	-20.59	HORIZONTAL	Peak

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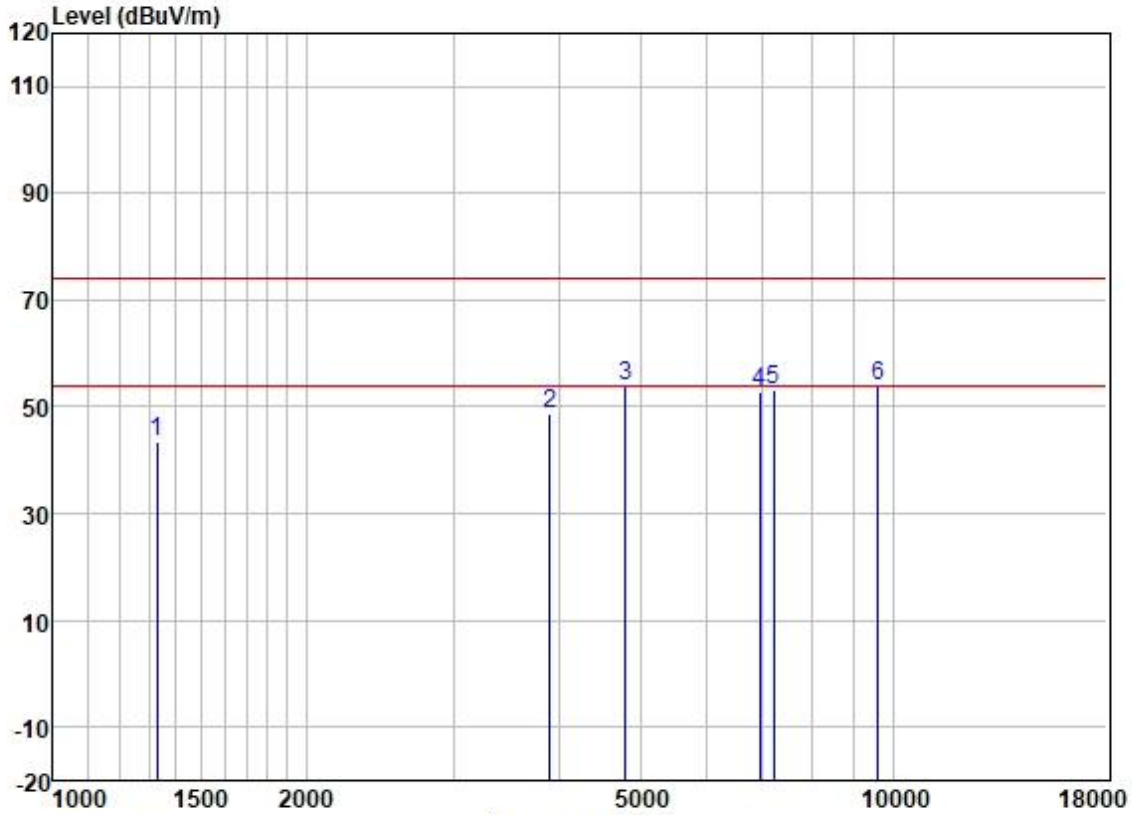
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1331.288	54.03	25.28	2.60	38.29	43.62	74.00	-30.38	VERTICAL	Peak
2	3901.516	51.06	29.69	4.60	36.82	48.53	74.00	-25.47	VERTICAL	Peak
3	4804.000	53.86	31.42	5.40	36.83	53.85	74.00	-20.15	VERTICAL	Peak
4	6934.778	49.44	34.92	5.81	37.19	52.98	74.00	-21.02	VERTICAL	Peak
5	7206.000	49.16	35.54	5.98	37.38	53.30	74.00	-20.70	VERTICAL	Peak
6	9608.000	45.72	38.37	7.07	37.42	53.74	74.00	-20.26	VERTICAL	Peak

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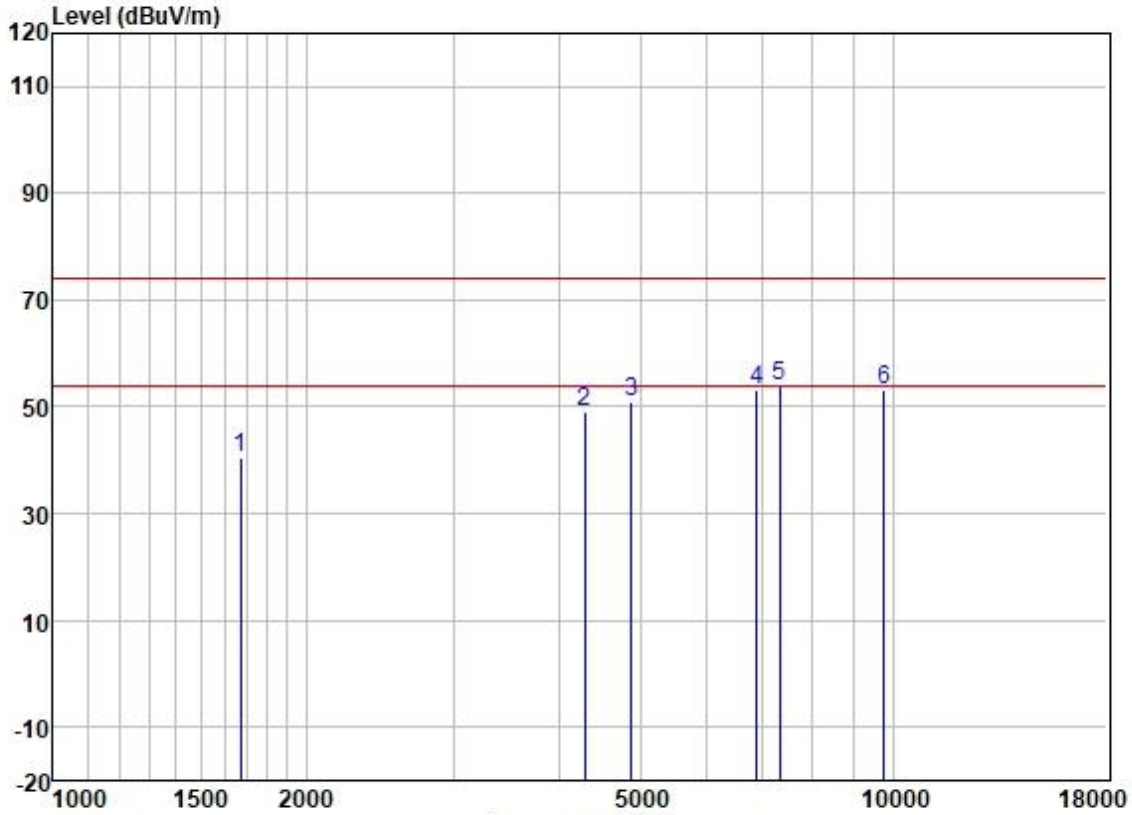
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	49.93	25.67	2.80	37.91	40.49	74.00	-33.51	HORIZONTAL	Peak
2	4291.977	50.65	30.45	4.64	36.81	48.93	74.00	-25.07	HORIZONTAL	Peak
3	4880.000	50.83	31.54	5.50	36.84	51.03	74.00	-22.97	HORIZONTAL	Peak
4	6874.906	49.57	34.82	5.82	37.16	53.05	74.00	-20.95	HORIZONTAL	Peak
5	7320.000	49.08	36.00	6.13	37.43	53.78	74.00	-20.22	HORIZONTAL	Peak
6	9760.000	45.21	38.50	7.02	37.41	53.32	74.00	-20.68	HORIZONTAL	Peak

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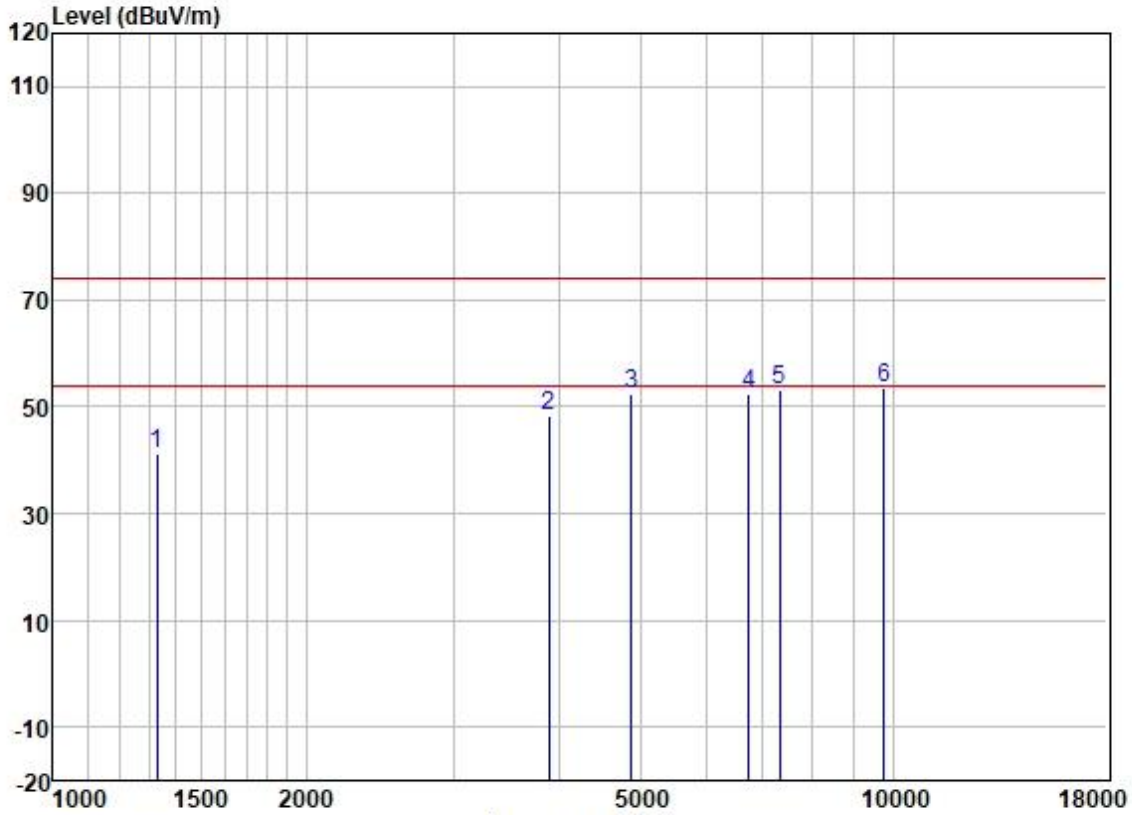
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1331.288	51.81	25.28	2.60	38.29	41.40	74.00	-32.60	VERTICAL	Peak
2	3890.255	50.87	29.67	4.60	36.82	48.32	74.00	-25.68	VERTICAL	Peak
3	4880.000	52.08	31.54	5.50	36.84	52.28	74.00	-21.72	VERTICAL	Peak
4	6737.207	49.22	34.50	5.82	37.09	52.45	74.00	-21.55	VERTICAL	Peak
5	7320.000	48.33	36.00	6.13	37.43	53.03	74.00	-20.97	VERTICAL	Peak
6	9760.000	45.46	38.50	7.02	37.41	53.57	74.00	-20.43	VERTICAL	Peak

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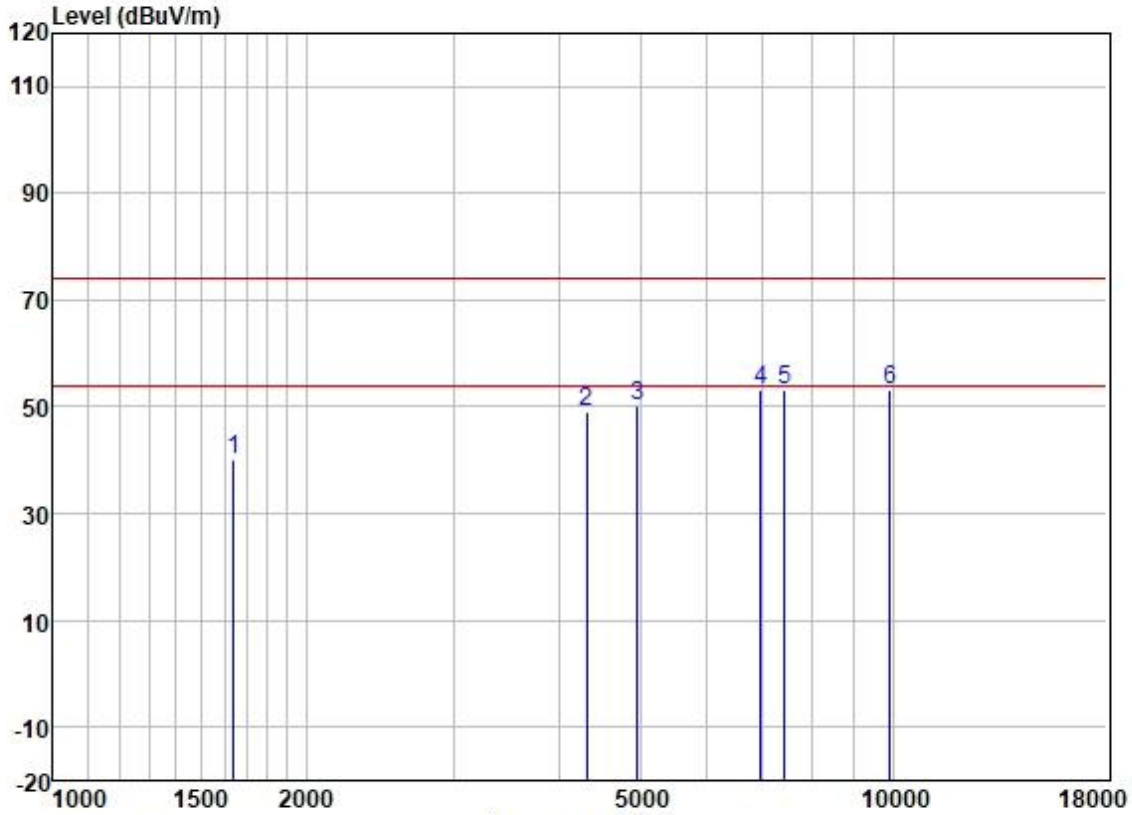
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1639.274	49.68	25.62	2.80	37.93	40.17	74.00	-33.83	HORIZONTAL	Peak
2	4316.859	50.80	30.51	4.66	36.81	49.16	74.00	-24.84	HORIZONTAL	Peak
3	4960.000	49.91	31.65	5.65	36.84	50.37	74.00	-23.63	HORIZONTAL	Peak
4	6954.852	49.69	34.95	5.81	37.21	53.24	74.00	-20.76	HORIZONTAL	Peak
5	7440.000	48.00	36.27	6.22	37.47	53.02	74.00	-20.98	HORIZONTAL	Peak
6	9920.000	45.05	38.65	6.96	37.40	53.26	74.00	-20.74	HORIZONTAL	Peak

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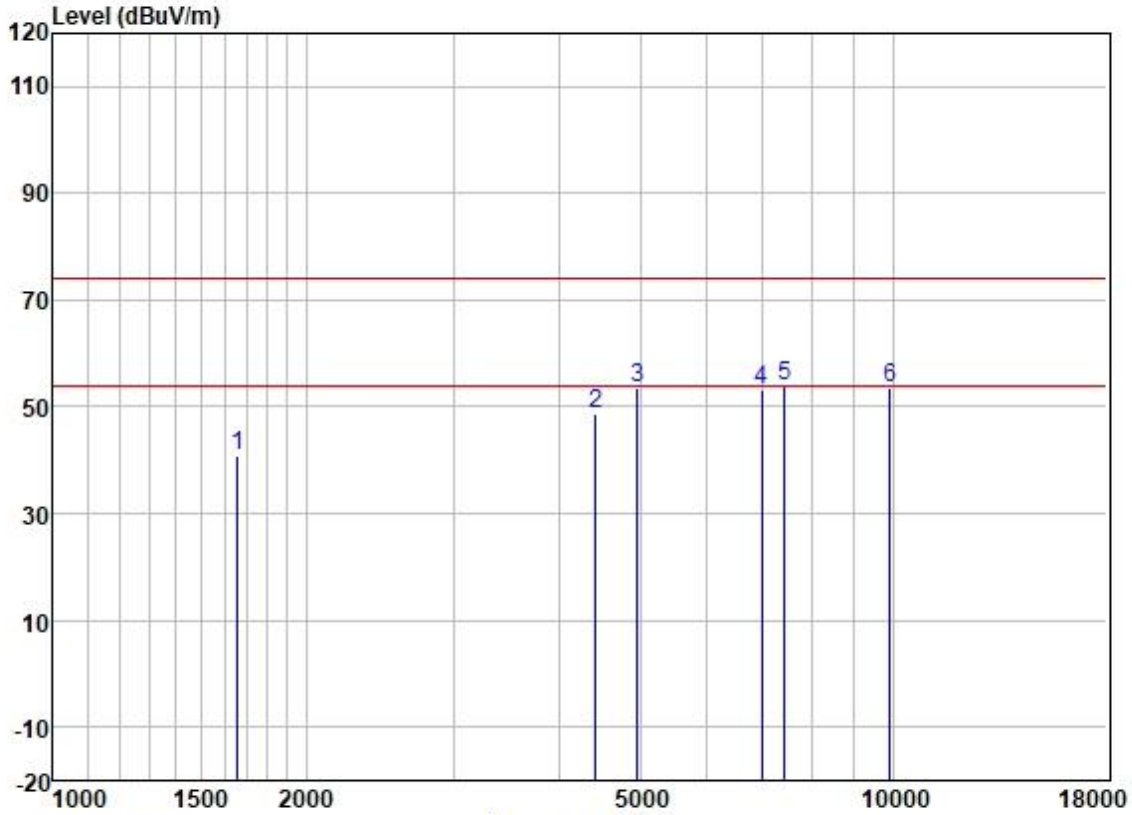
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	50.39	25.65	2.80	37.93	40.91	74.00	-33.09	VERTICAL	Peak
2	4430.628	50.05	30.72	4.78	36.81	48.74	74.00	-25.26	VERTICAL	Peak
3	4960.000	52.97	31.65	5.65	36.84	53.43	74.00	-20.57	VERTICAL	Peak
4	6974.982	49.61	34.97	5.81	37.23	53.16	74.00	-20.84	VERTICAL	Peak
5	7440.000	48.93	36.27	6.22	37.47	53.95	74.00	-20.05	VERTICAL	Peak
6	9920.000	45.30	38.65	6.96	37.40	53.51	74.00	-20.49	VERTICAL	Peak

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com
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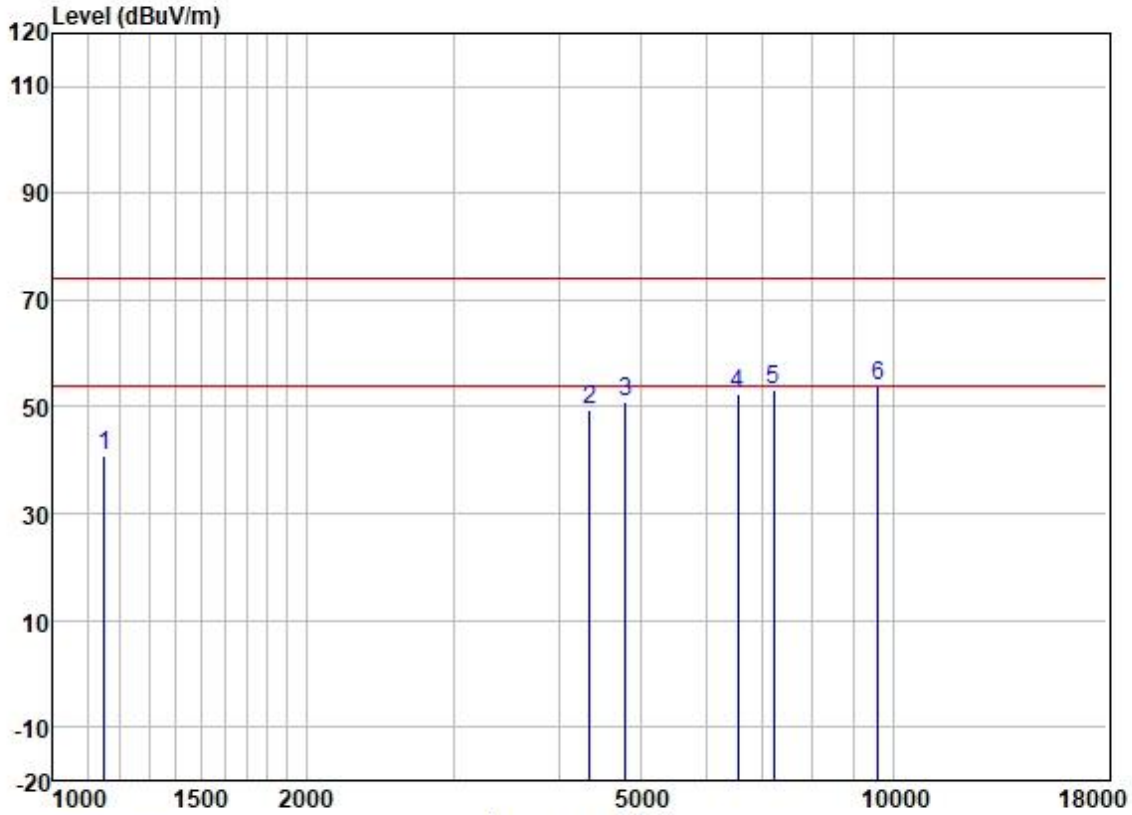
Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1152.148	52.54	24.50	2.36	38.42	40.98	74.00	-33.02	HORIZONTAL	Peak
2	4354.454	50.86	30.59	4.68	36.81	49.32	74.00	-24.68	HORIZONTAL	Peak
3	4804.000	50.81	31.42	5.40	36.83	50.80	74.00	-23.20	HORIZONTAL	Peak
4	6545.263	49.68	34.06	5.84	37.03	52.55	74.00	-21.45	HORIZONTAL	Peak
5	7206.000	49.11	35.54	5.98	37.38	53.25	74.00	-20.75	HORIZONTAL	Peak
6	9608.000	45.82	38.37	7.07	37.42	53.84	74.00	-20.16	HORIZONTAL	Peak

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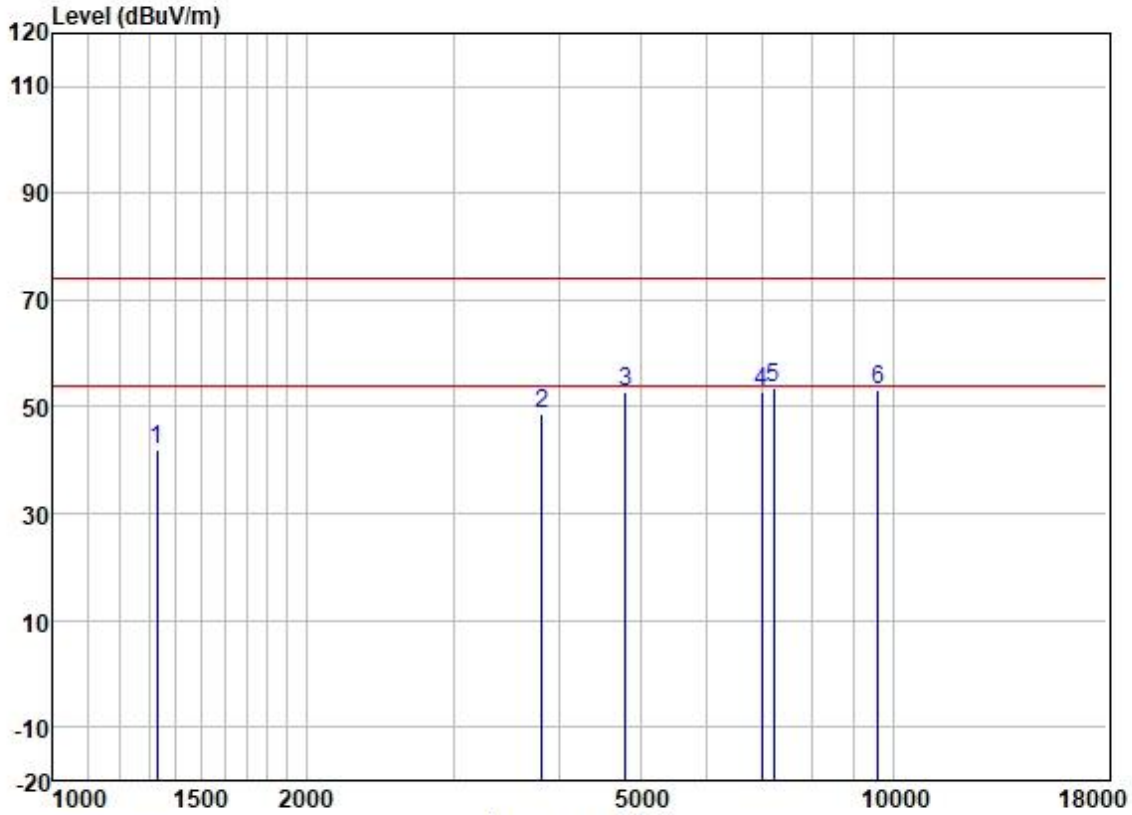
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1331.288	52.25	25.28	2.60	38.29	41.84	74.00	-32.16	VERTICAL	Peak
2	3823.371	51.26	29.57	4.60	36.84	48.59	74.00	-25.41	VERTICAL	Peak
3	4804.000	52.88	31.42	5.40	36.83	52.87	74.00	-21.13	VERTICAL	Peak
4	6974.982	49.17	34.97	5.81	37.23	52.72	74.00	-21.28	VERTICAL	Peak
5	7206.000	49.32	35.54	5.98	37.38	53.46	74.00	-20.54	VERTICAL	Peak
6	9608.000	45.10	38.37	7.07	37.42	53.12	74.00	-20.88	VERTICAL	Peak

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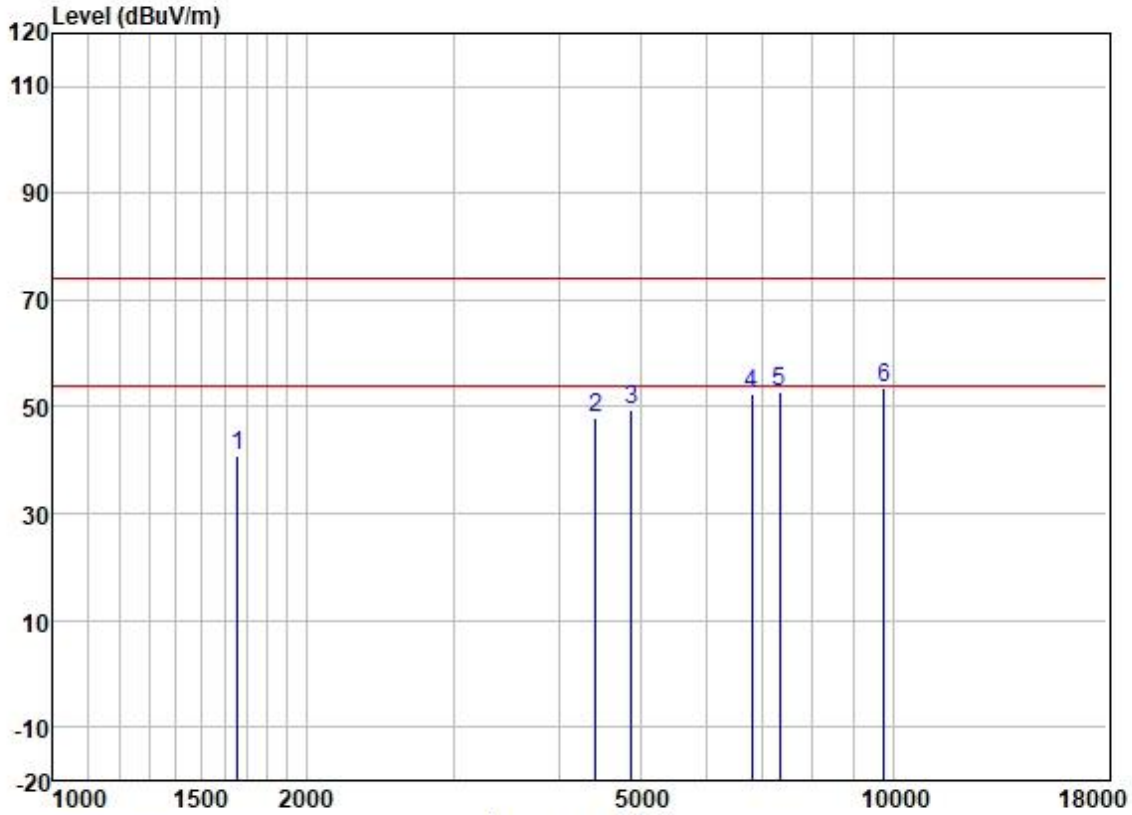
Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	50.34	25.65	2.80	37.93	40.86	74.00	-33.14	HORIZONTAL	Peak
2	4430.628	49.24	30.72	4.78	36.81	47.93	74.00	-26.07	HORIZONTAL	Peak
3	4880.000	49.08	31.54	5.50	36.84	49.28	74.00	-24.72	HORIZONTAL	Peak
4	6795.879	48.95	34.66	5.82	37.12	52.31	74.00	-21.69	HORIZONTAL	Peak
5	7320.000	48.08	36.00	6.13	37.43	52.78	74.00	-21.22	HORIZONTAL	Peak
6	9760.000	45.61	38.50	7.02	37.41	53.72	74.00	-20.28	HORIZONTAL	Peak

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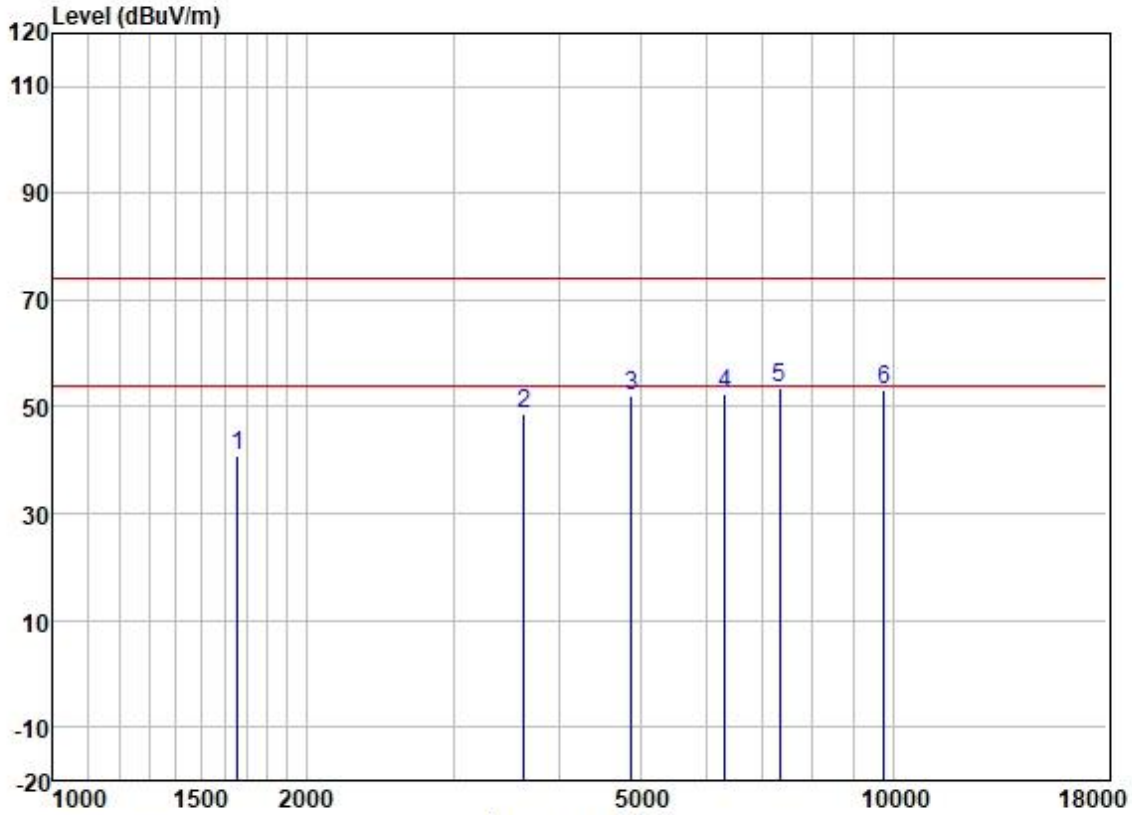
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	50.31	25.65	2.80	37.93	40.83	74.00	-33.17	VERTICAL	Peak
2	3640.045	52.06	29.11	4.52	36.89	48.80	74.00	-25.20	VERTICAL	Peak
3	4880.000	51.74	31.54	5.50	36.84	51.94	74.00	-22.06	VERTICAL	Peak
4	6303.890	49.95	33.44	5.97	36.96	52.40	74.00	-21.60	VERTICAL	Peak
5	7320.000	48.87	36.00	6.13	37.43	53.57	74.00	-20.43	VERTICAL	Peak
6	9760.000	45.09	38.50	7.02	37.41	53.20	74.00	-20.80	VERTICAL	Peak

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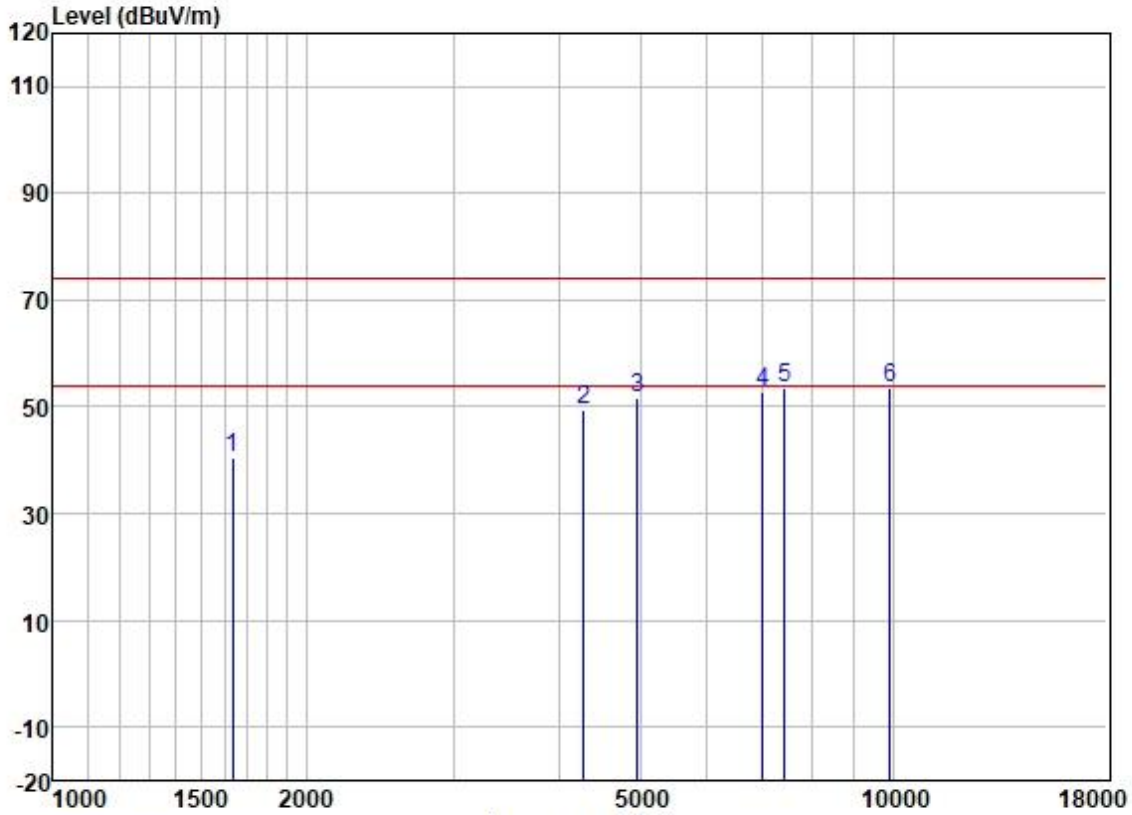
Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1634.543	50.16	25.62	2.80	37.95	40.63	74.00	-33.37	HORIZONTAL	Peak
2	4279.589	51.26	30.42	4.63	36.81	49.50	74.00	-24.50	HORIZONTAL	Peak
3	4960.000	51.35	31.65	5.65	36.84	51.81	74.00	-22.19	HORIZONTAL	Peak
4	6995.172	49.30	35.00	5.81	37.25	52.86	74.00	-21.14	HORIZONTAL	Peak
5	7440.000	48.43	36.27	6.22	37.47	53.45	74.00	-20.55	HORIZONTAL	Peak
6	9920.000	45.21	38.65	6.96	37.40	53.42	74.00	-20.58	HORIZONTAL	Peak

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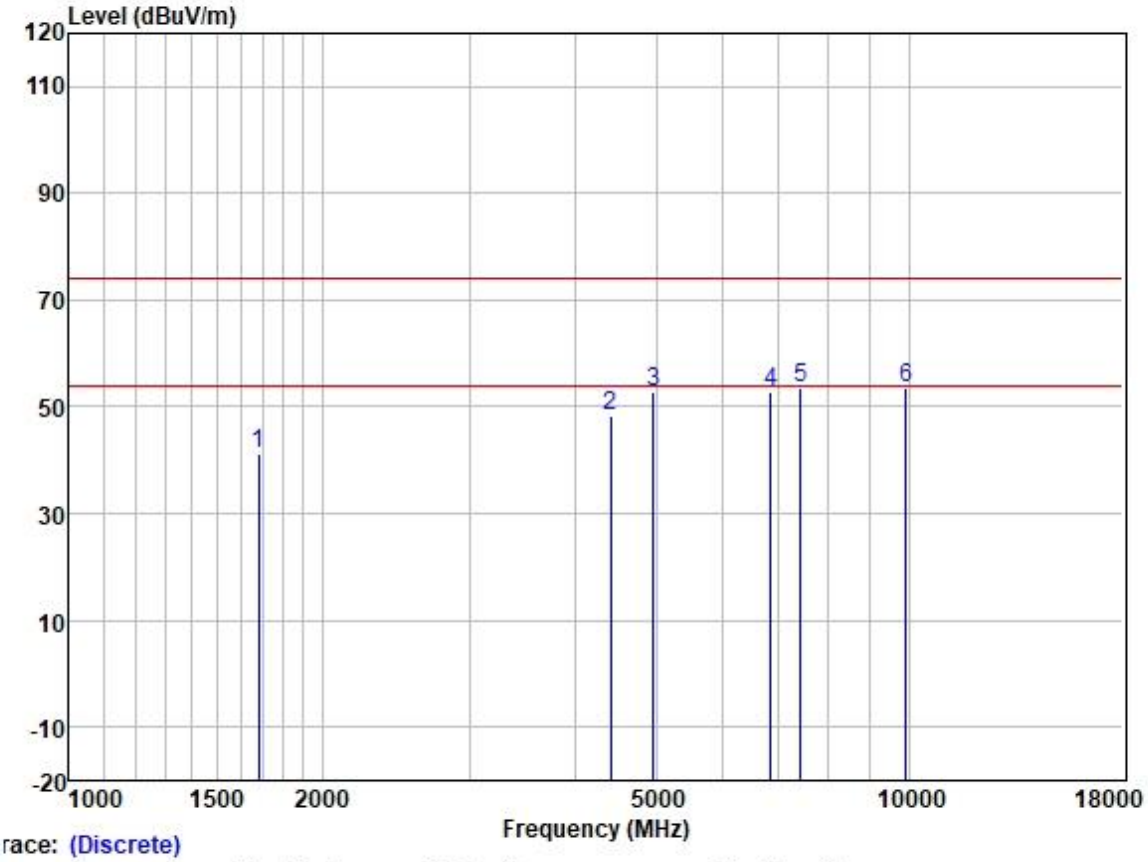
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.477	50.50	25.68	2.80	37.91	41.07	74.00	-32.93	VERTICAL	Peak
2	4417.841	49.74	30.70	4.74	36.81	48.37	74.00	-25.63	VERTICAL	Peak
3	4960.000	52.46	31.65	5.65	36.84	52.92	74.00	-21.08	VERTICAL	Peak
4	6855.063	49.43	34.78	5.82	37.15	52.88	74.00	-21.12	VERTICAL	Peak
5	7440.000	48.38	36.27	6.22	37.47	53.40	74.00	-20.60	VERTICAL	Peak
6	9920.000	45.18	38.65	6.96	37.40	53.39	74.00	-20.61	VERTICAL	Peak

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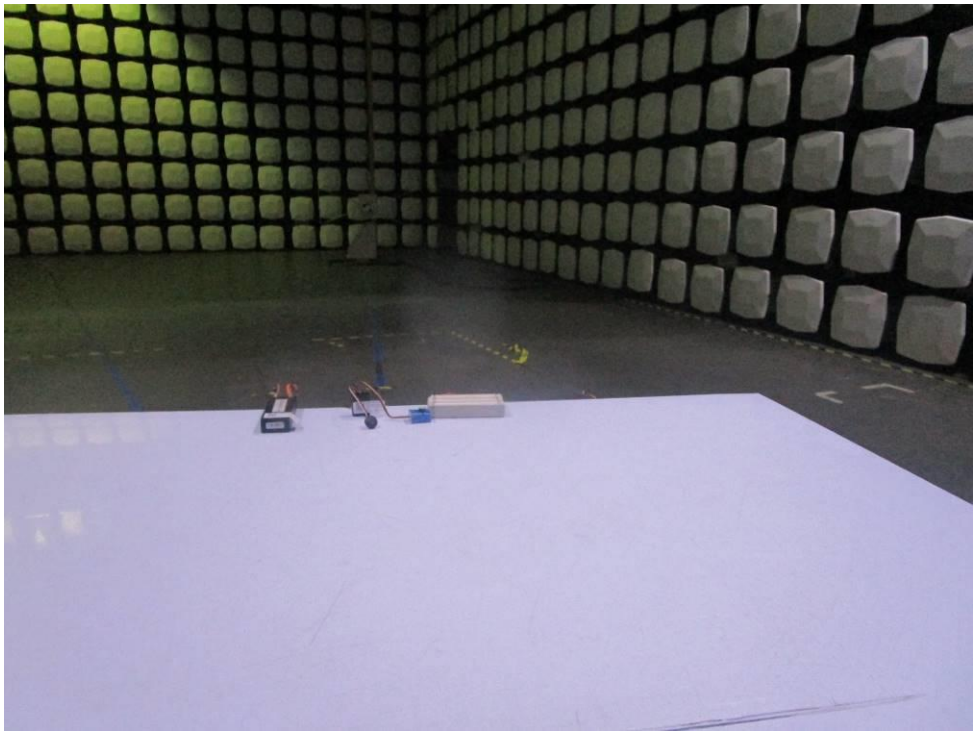
8 Test Setup Photo

Radiated Emissions which fall in the restricted bands

Radiated Spurious Emissions (Below 1GHz)



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Radiated Spurious Emissions (Above 1GHz)

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9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2112021585AT

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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.403	0.630	63.97	1.94	1.17
		2440	0.403	0.630	63.97	1.94	1.13
		2480	0.403	0.631	63.87	1.95	1.17
2M	SISO	2402	0.203	0.631	32.17	4.93	0.60
		2440	0.202	0.630	32.06	4.94	0.59
		2480	0.203	0.630	32.22	4.92	0.59

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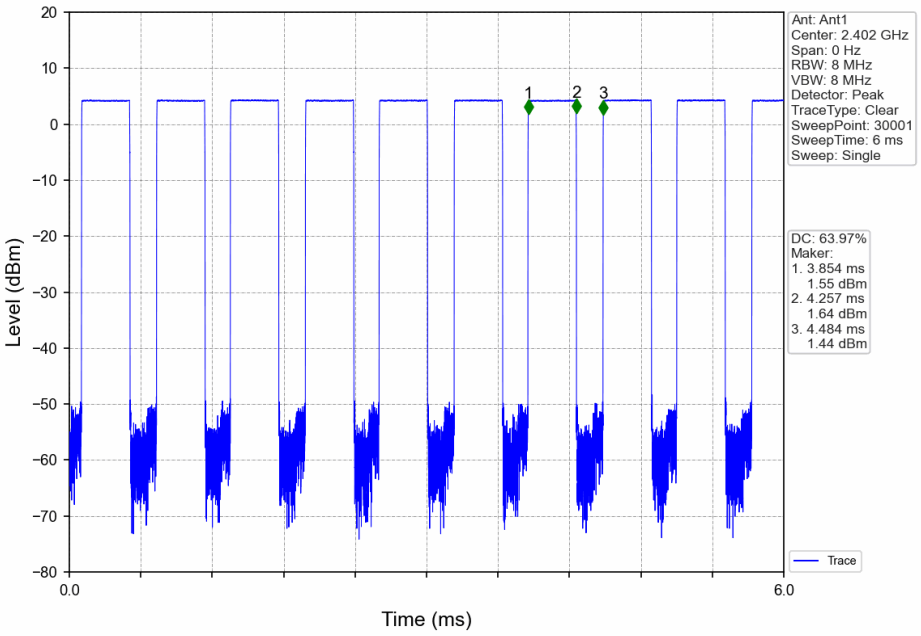
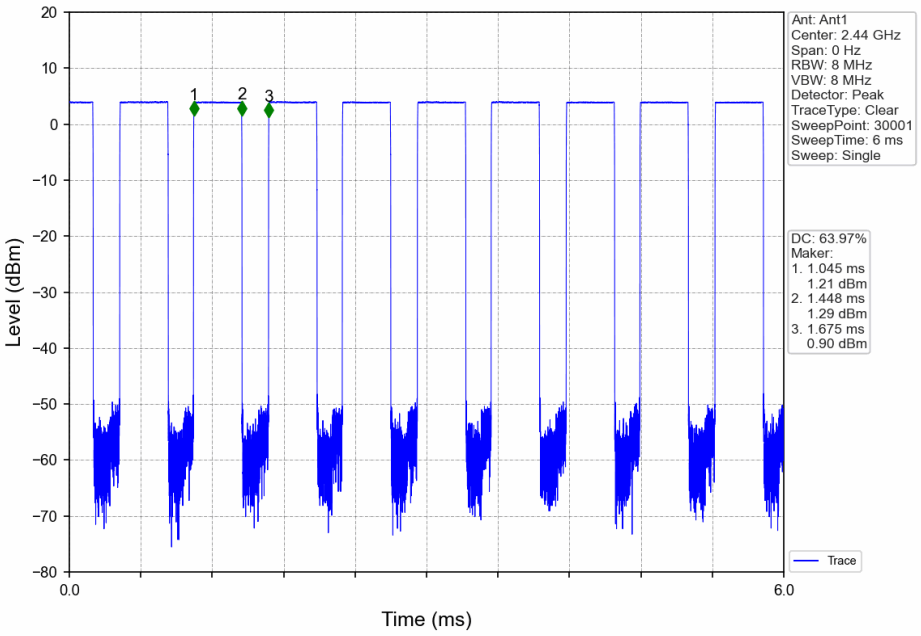
1.1.2 Test Graph

1M_LCH_2402MHz_DataRate=_Ant1_NTNV



1M_MCH_2440MHz_DataRate=_Ant1_NTNV



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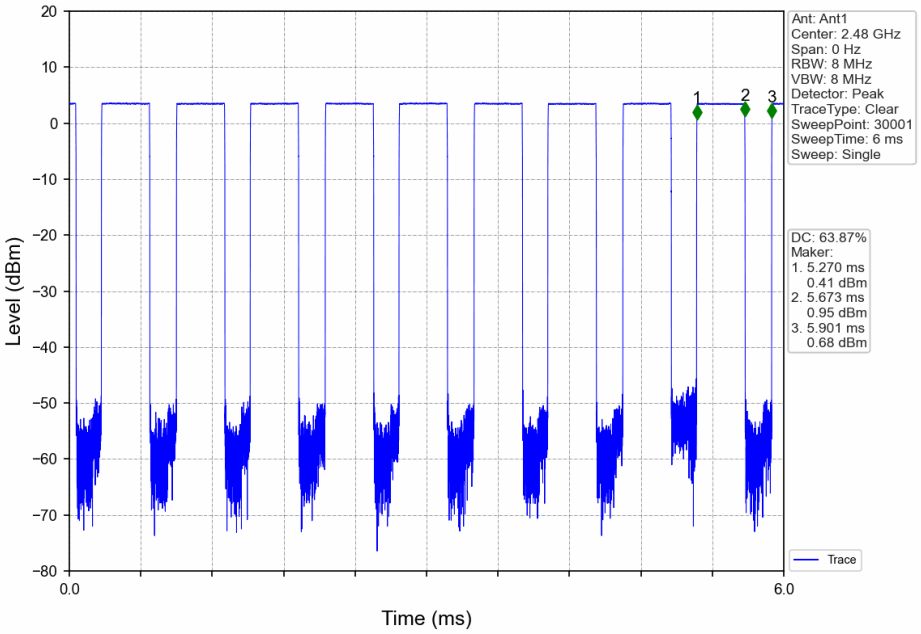
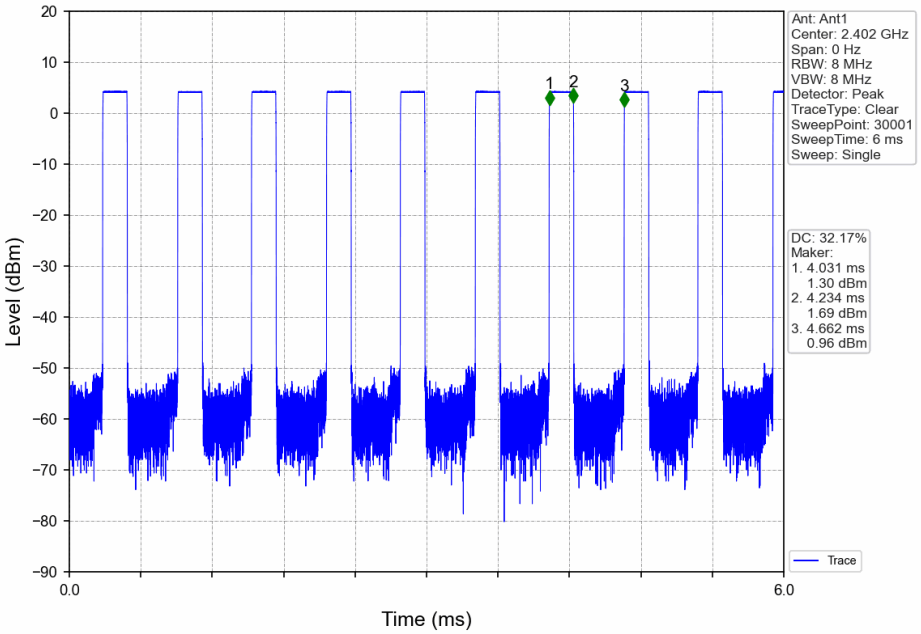
1M_HCH_2480MHz_DataRate=_Ant1_NTNV



2M_LCH_2402MHz_DataRate=_Ant1_NTNV



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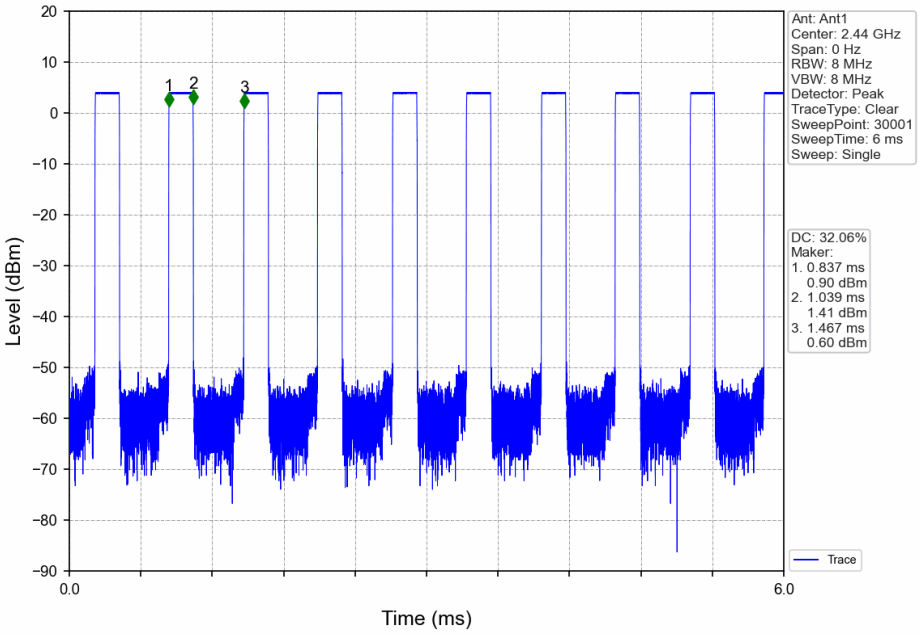
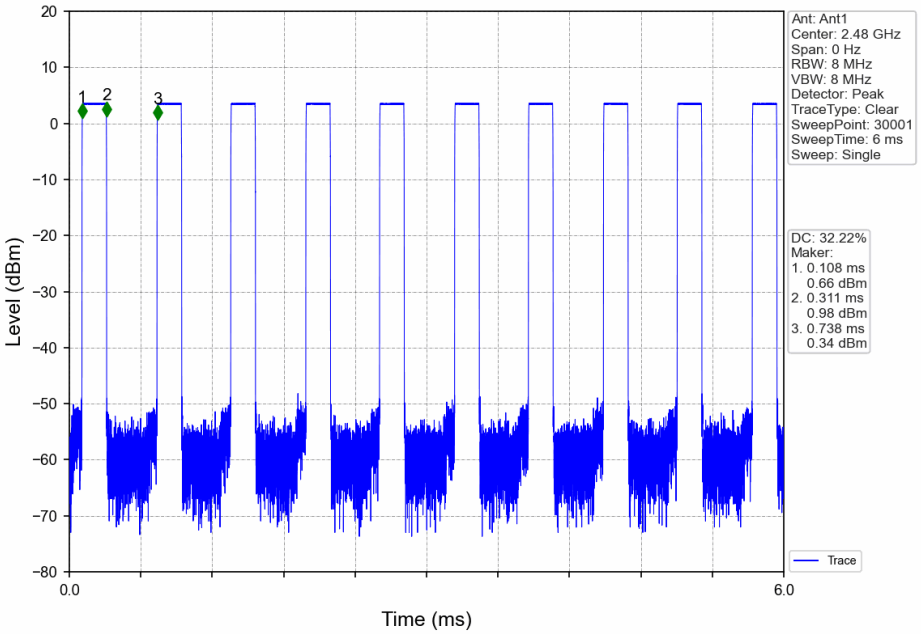
2M_MCH_2440MHz_DataRate=_Ant1_NTNV



2M_HCH_2480MHz_DataRate=_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.108	Pass
		2440	1	1.123	Pass
		2480	1	1.147	Pass
2M	SISO	2402	1	2.078	Pass
		2440	1	2.074	Pass
		2480	1	2.073	Pass

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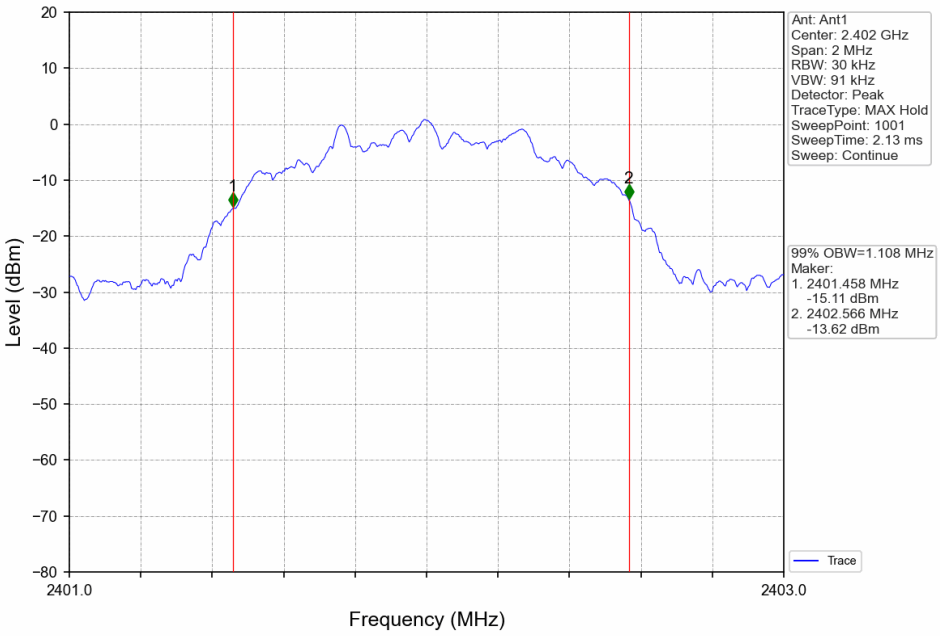
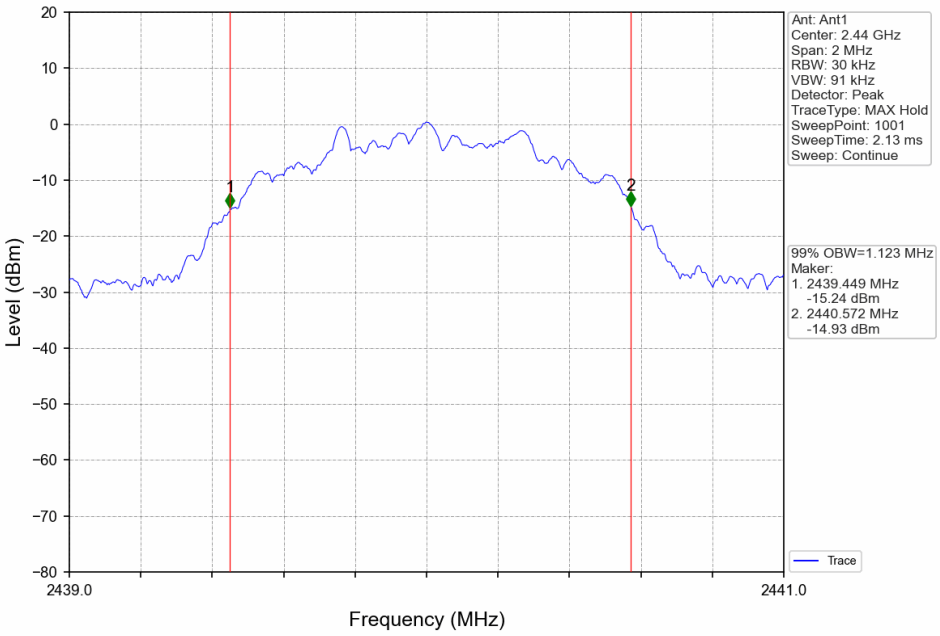
2.1.2 Test Graph

1M_LCH_2402MHz_DataRate=_Ant1_NTNV



1M_MCH_2440MHz_DataRate=_Ant1_NTNV



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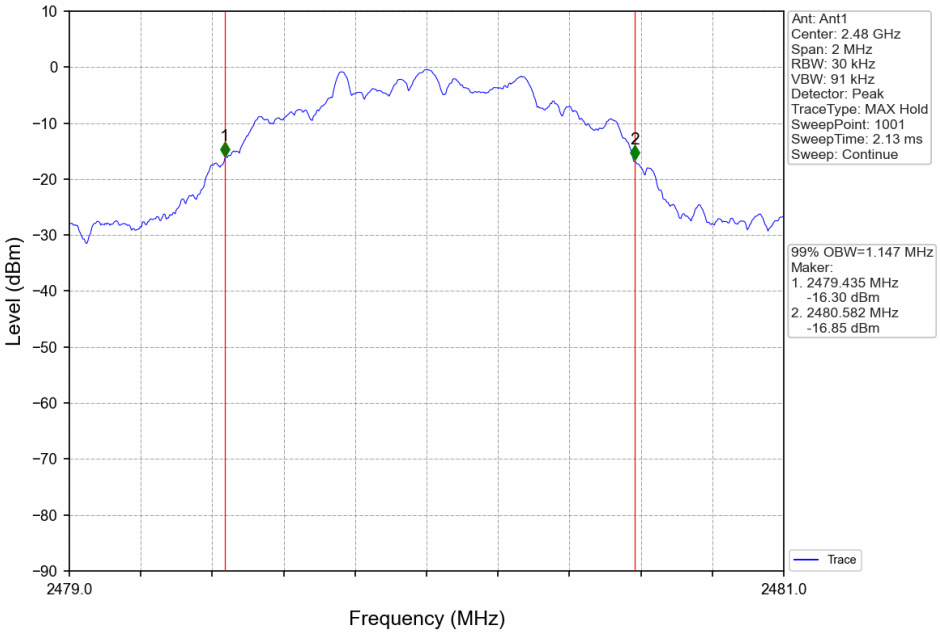
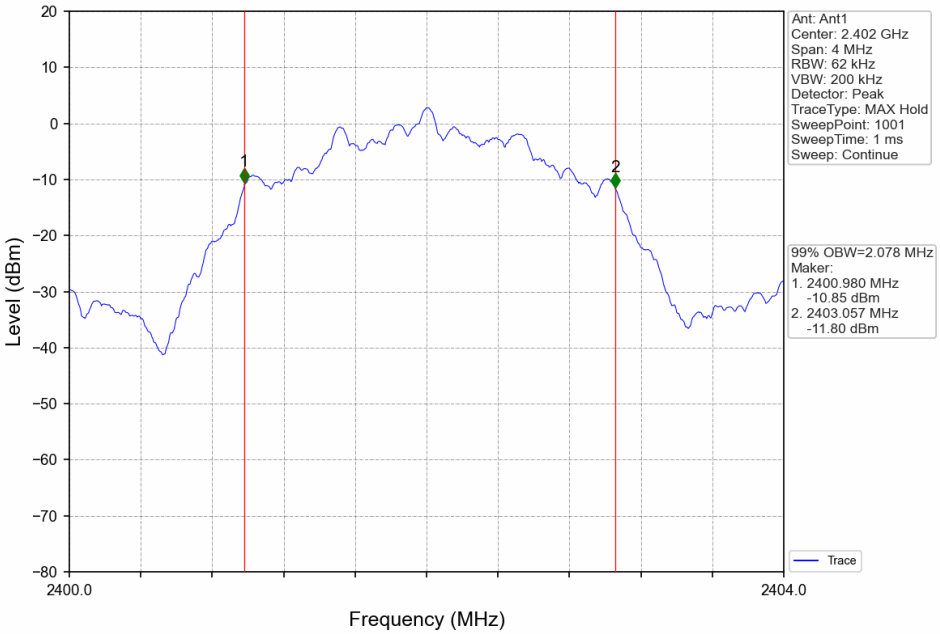
1M_HCH_2480MHz_DataRate=_Ant1_NTNV



2M_LCH_2402MHz_DataRate=_Ant1_NTNV



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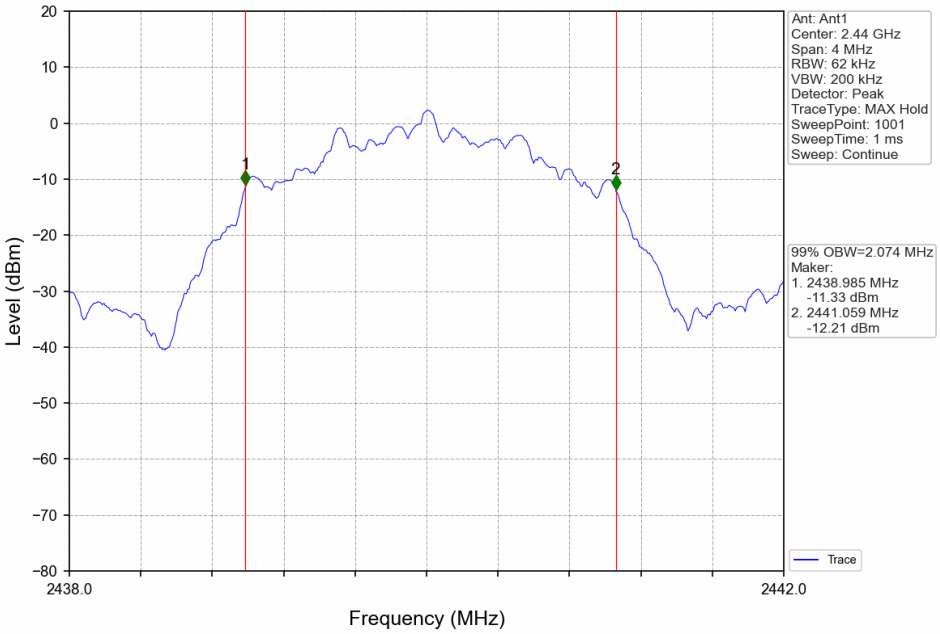
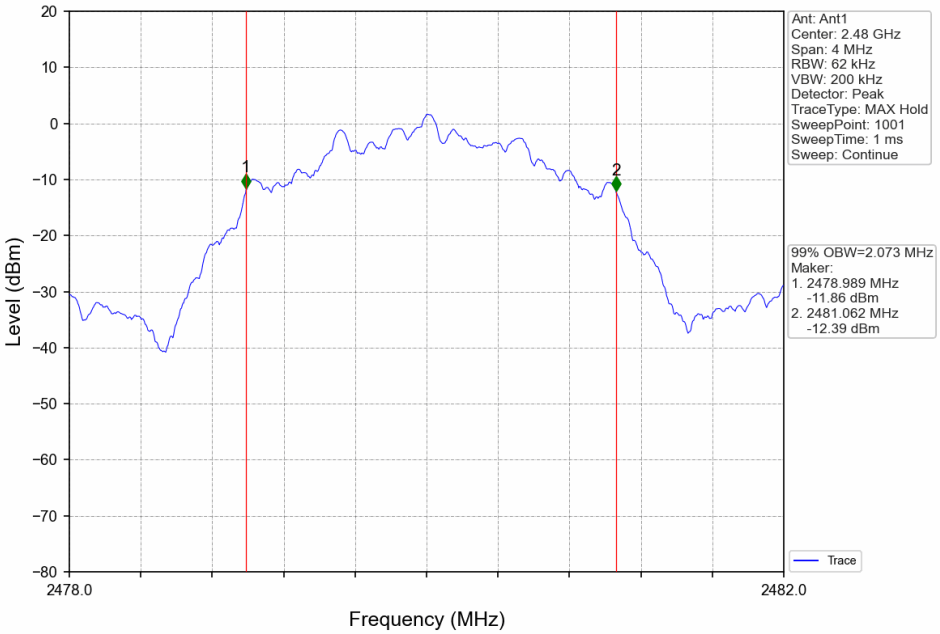
2M_MCH_2440MHz_DataRate=_Ant1_NTNV



2M_HCH_2480MHz_DataRate=_Ant1_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.738	>=0.5	Pass
		2440	1	0.730	>=0.5	Pass
		2480	1	0.746	>=0.5	Pass
2M	SISO	2402	1	1.137	>=0.5	Pass
		2440	1	1.133	>=0.5	Pass
		2480	1	1.151	>=0.5	Pass

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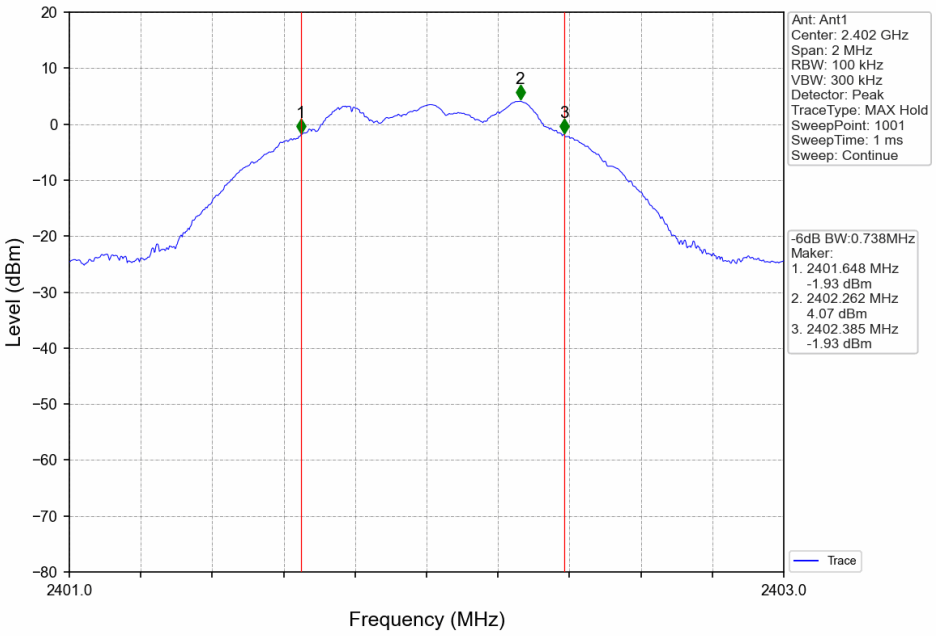
2.2.2 Test Graph

1M_LCH_2402MHz_DataRate=_Ant1_NTNV



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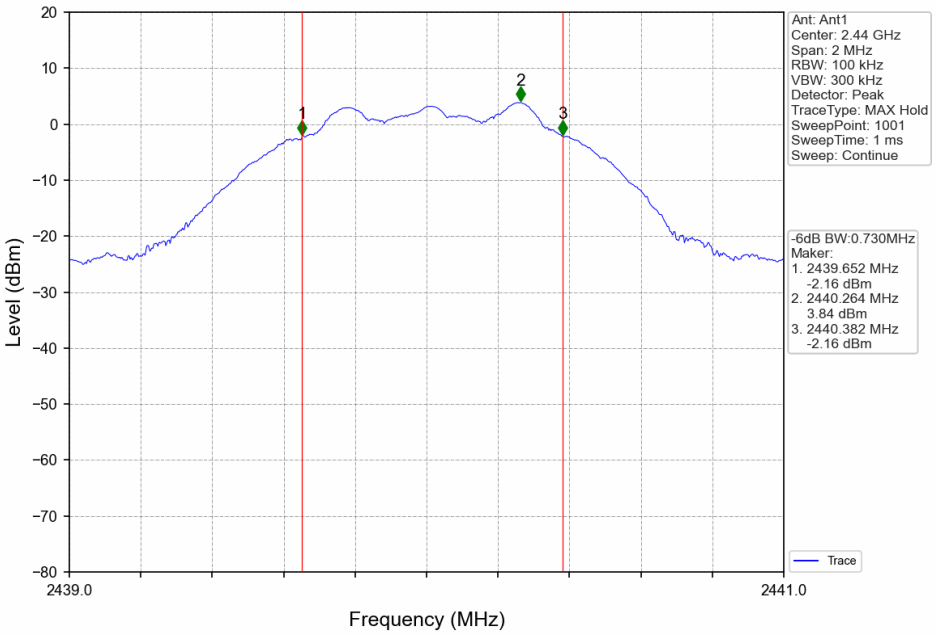

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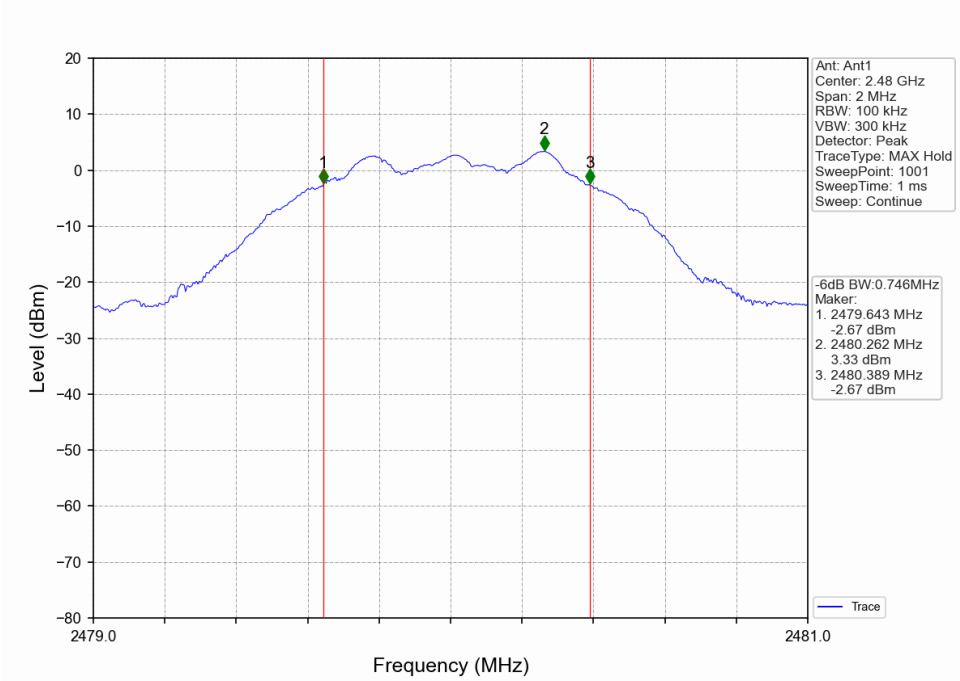
1M_HCH_2480MHz_DataRate=_Ant1_NTNV



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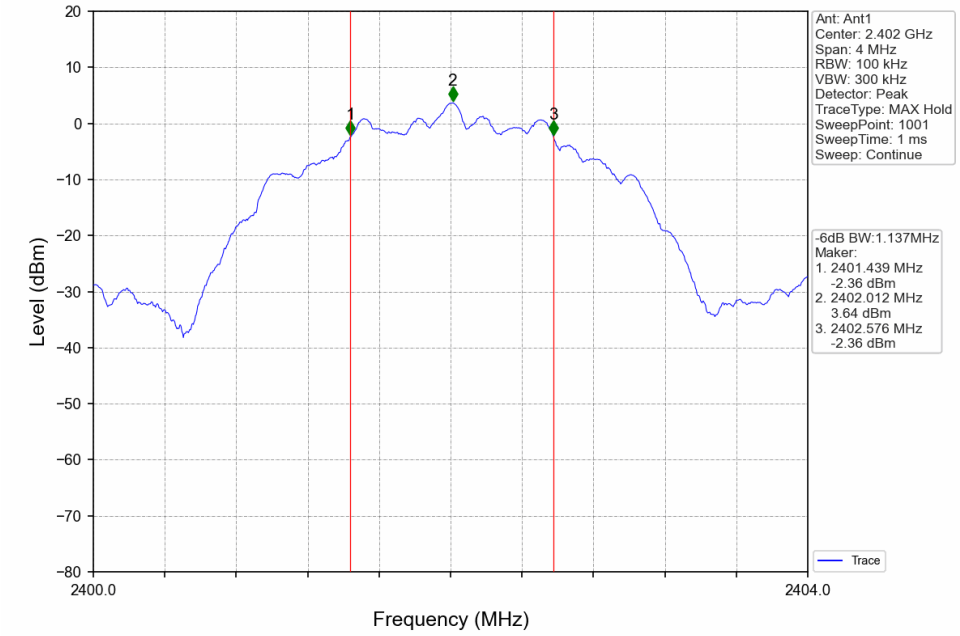

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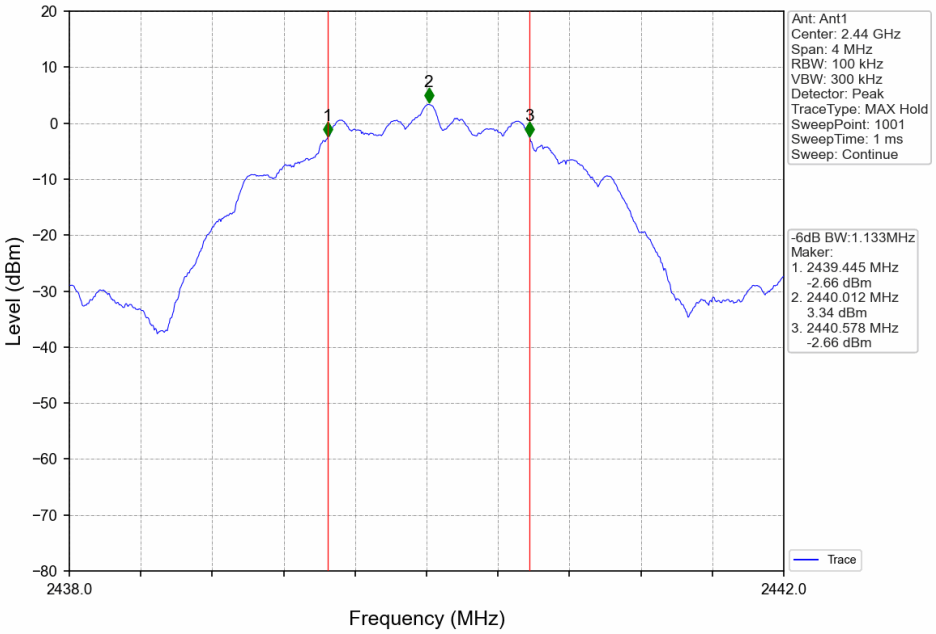
2M_MCH_2440MHz_DataRate=_Ant1_NTNV



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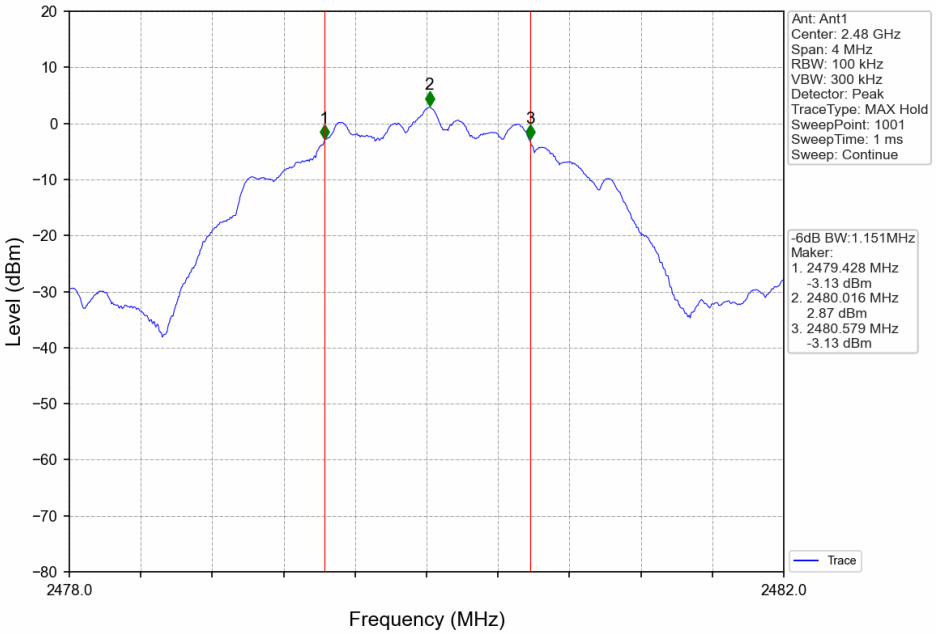

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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
1M	SISO	2402	4.24	<=30	Pass
		2440	3.96	<=30	Pass
		2480	3.50	<=30	Pass
2M	SISO	2402	4.26	<=30	Pass
		2440	4.00	<=30	Pass
		2480	3.58	<=30	Pass

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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
1M	SISO	2402	-12.68	<=8	Pass
		2440	-13.07	<=8	Pass
		2480	-13.52	<=8	Pass
2M	SISO	2402	-14.88	<=8	Pass
		2440	-15.36	<=8	Pass
		2480	-16.26	<=8	Pass

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4.1.2 Test Graph

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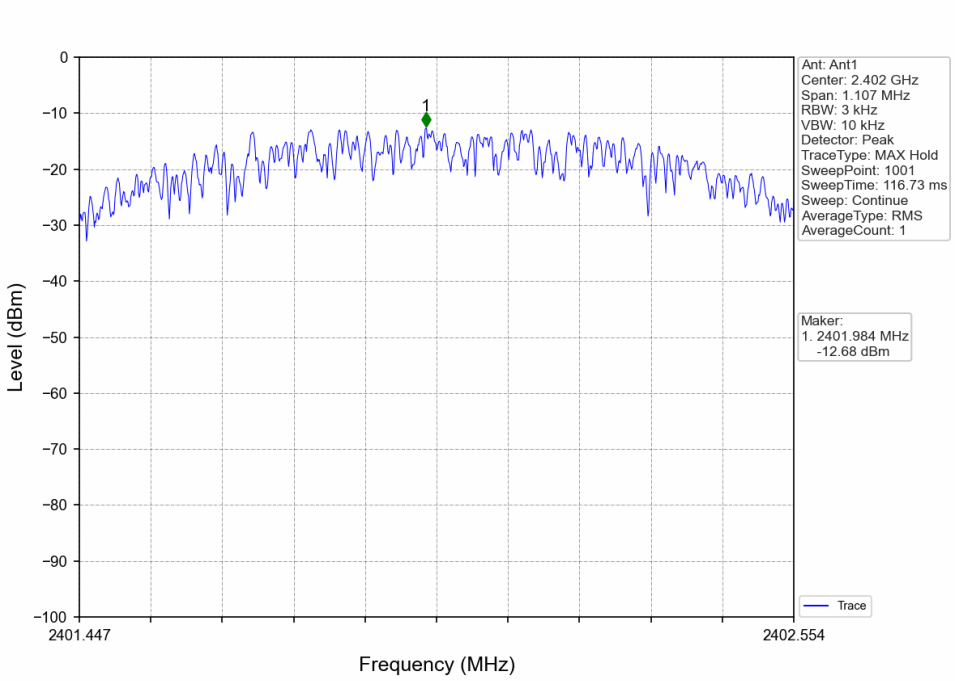
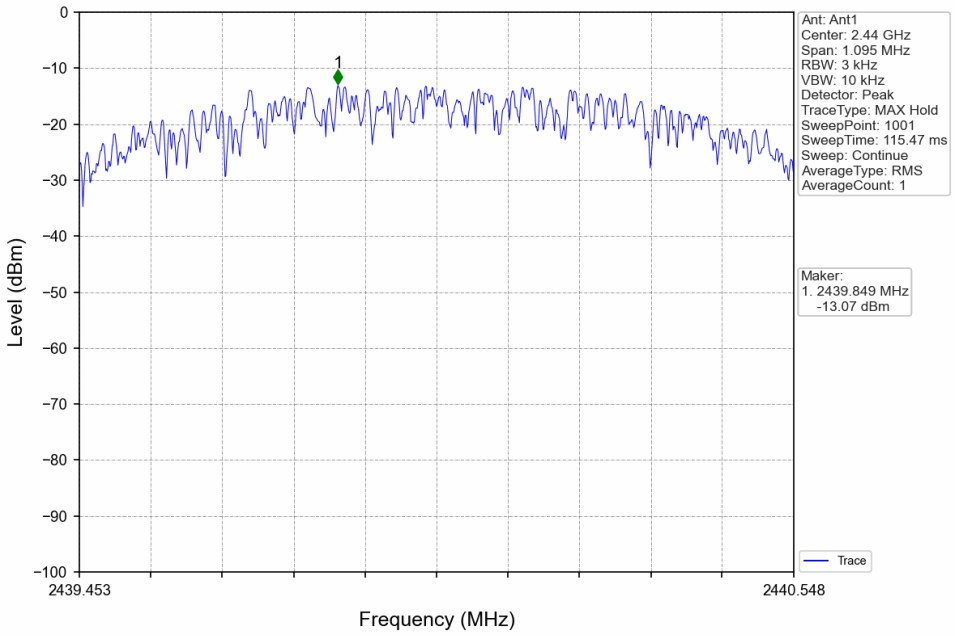


1M_MCH_2440MHz_DataRate=_Ant1_NTNV



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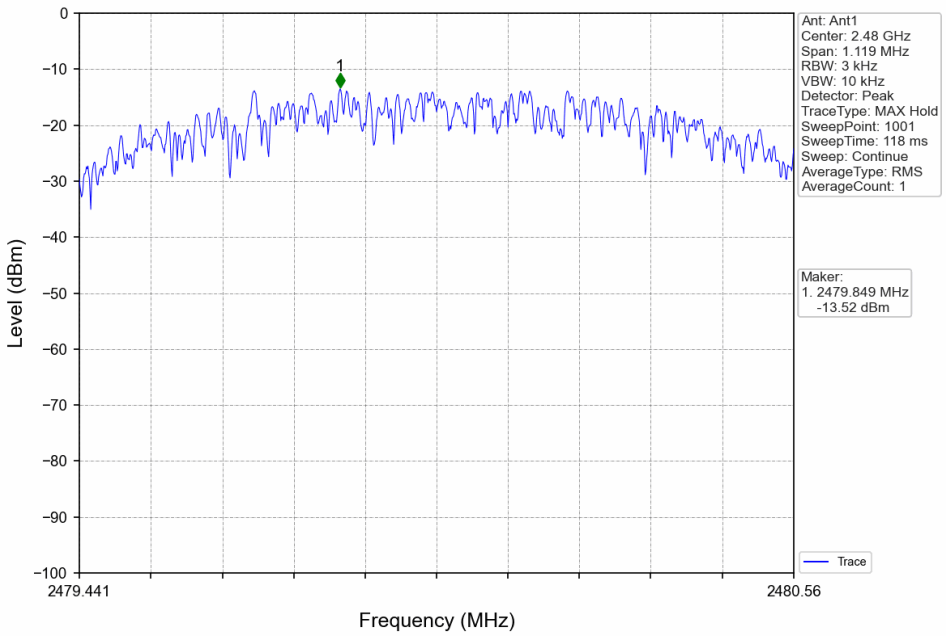
1M_HCH_2480MHz_DataRate=_Ant1_NTNV



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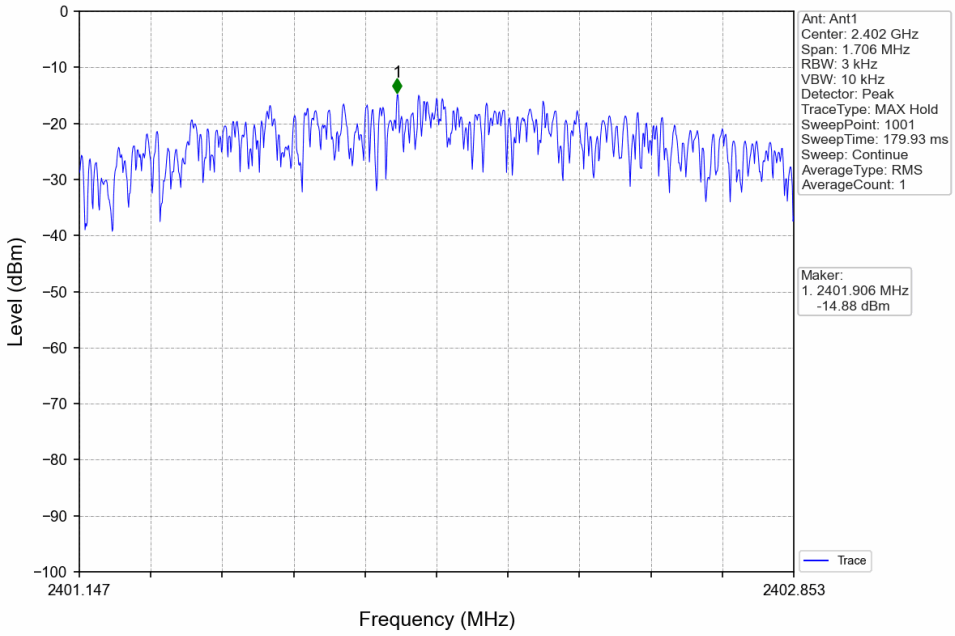

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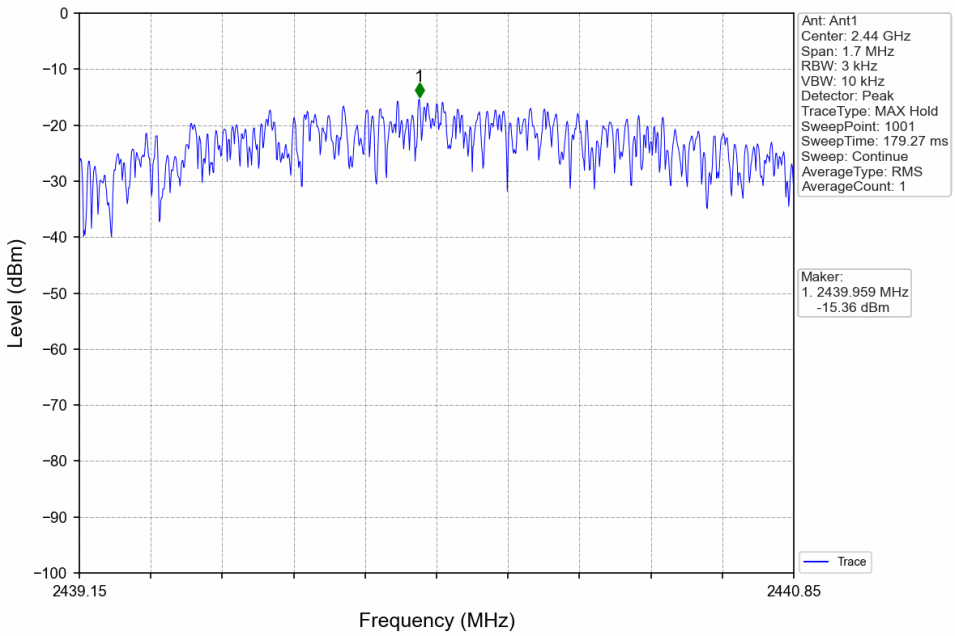
2M_MCH_2440MHz_DataRate=_Ant1_NTNV



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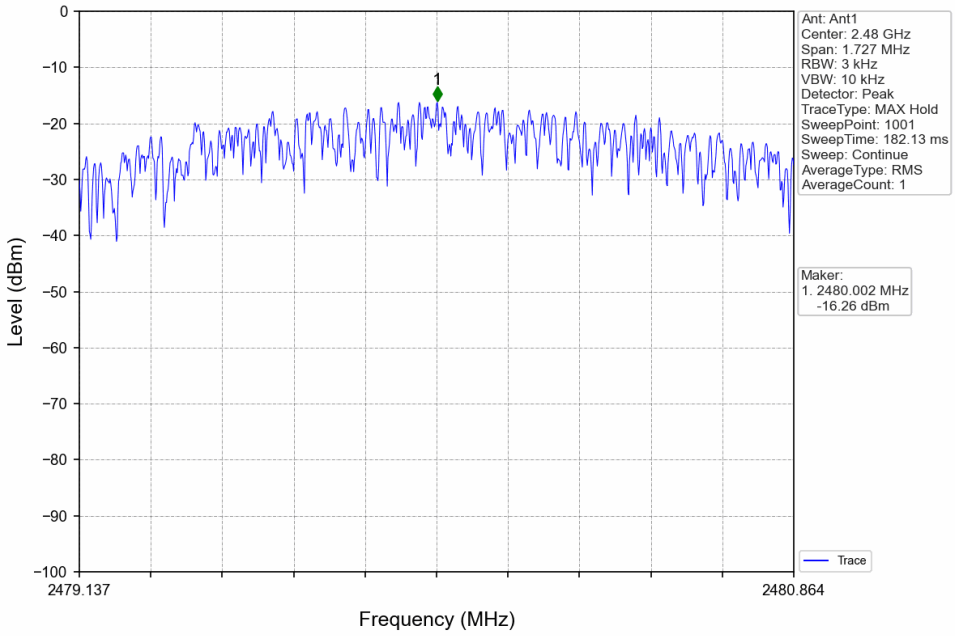

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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
1M	SISO	2402	1	4.08
		2440	1	3.82
		2480	1	3.34
2M	SISO	2402	1	3.61
		2440	1	3.34
		2480	1	2.85

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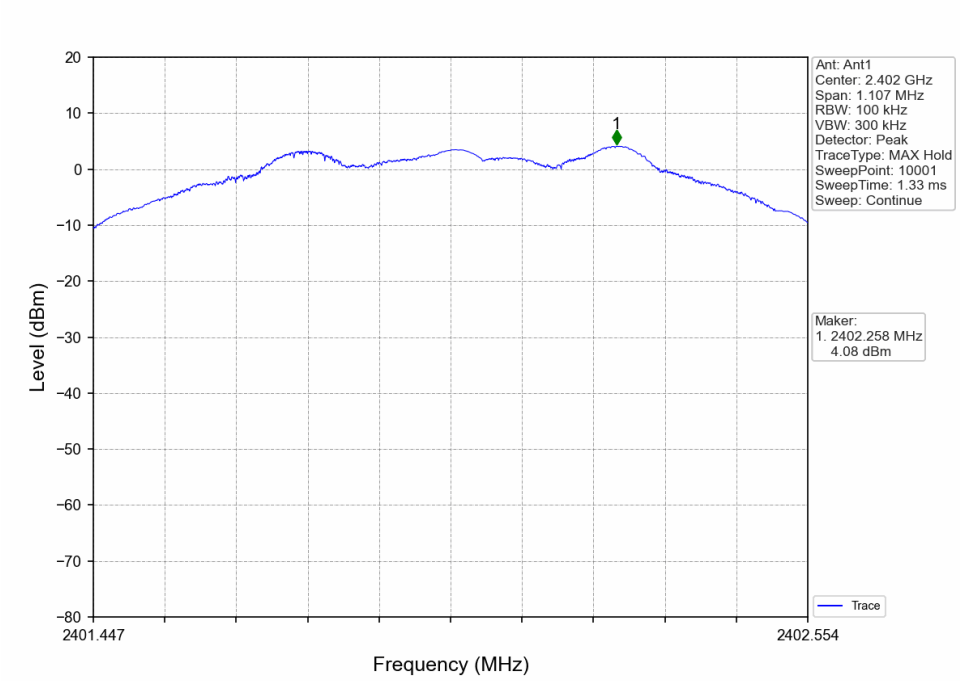
5.1.2 Test Graph

1M_LCH_2402MHz_DataRate=_Ant1_NTNV



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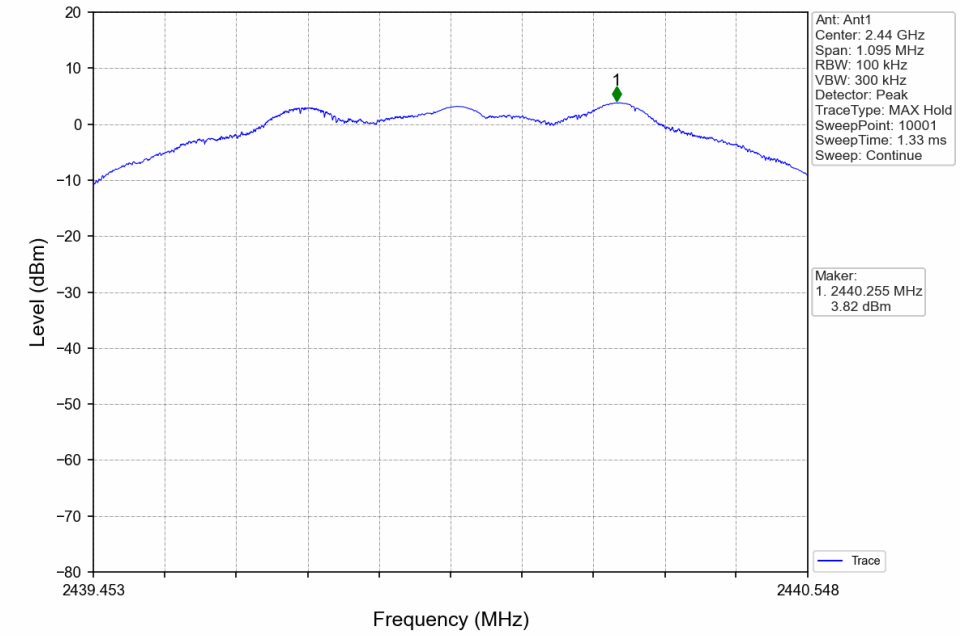

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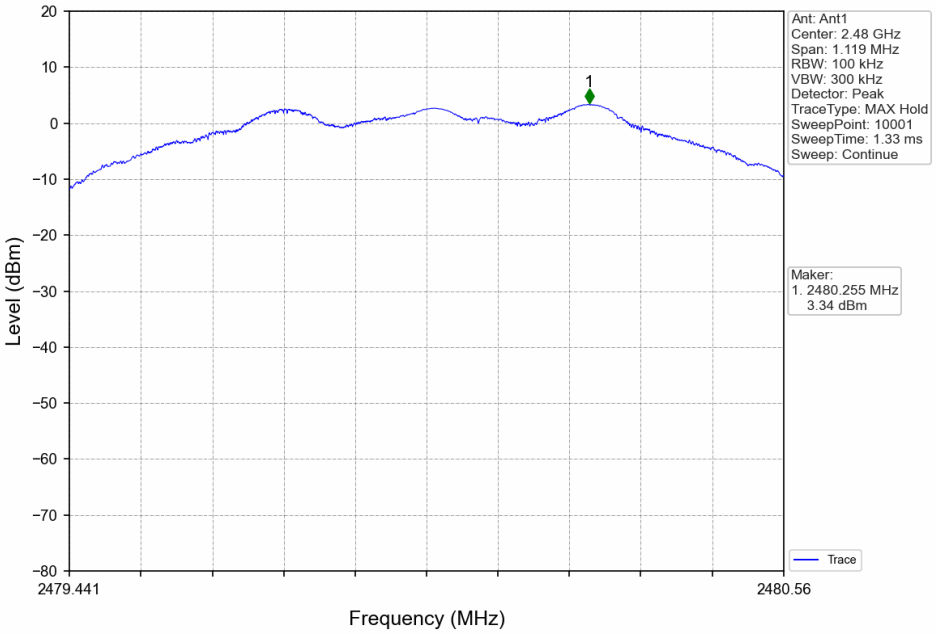
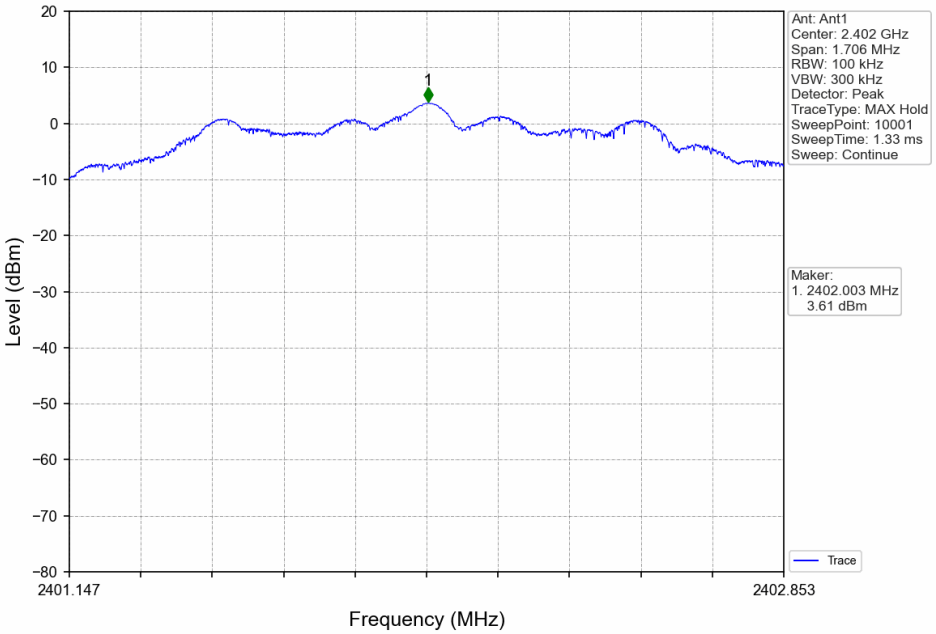
1M_HCH_2480MHz_DataRate=_Ant1_NTNV



2M_LCH_2402MHz_DataRate=_Ant1_NTNV



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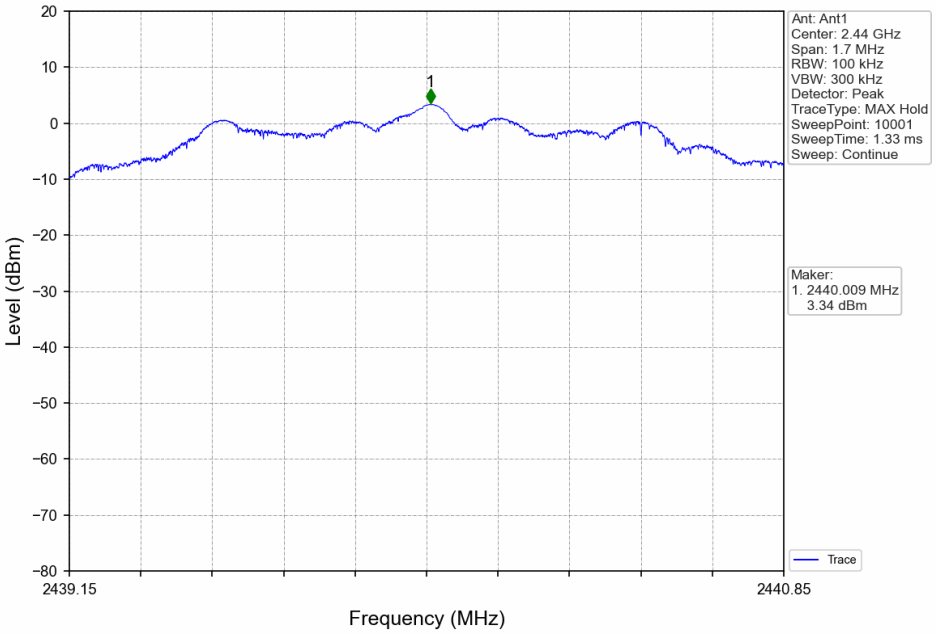
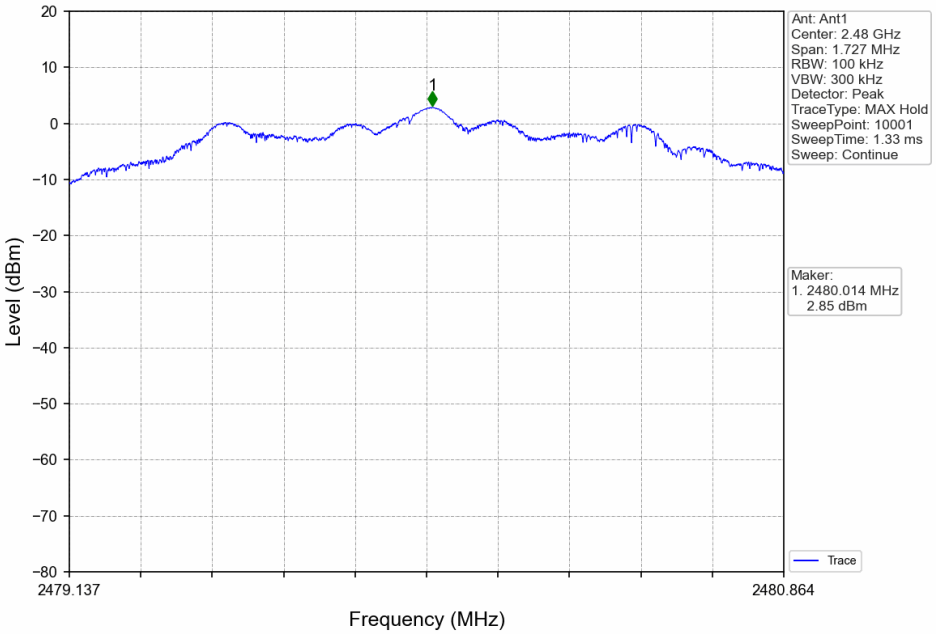


2M_HCH_2480MHz_DataRate=_Ant1_NTNV



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.08	-15.92	Pass
		2440	1	4.08	-15.92	Pass
		2480	1	4.08	-15.92	Pass
2M	SISO	2402	1	3.61	-16.39	Pass
		2440	1	3.61	-16.39	Pass
		2480	1	3.61	-16.39	Pass

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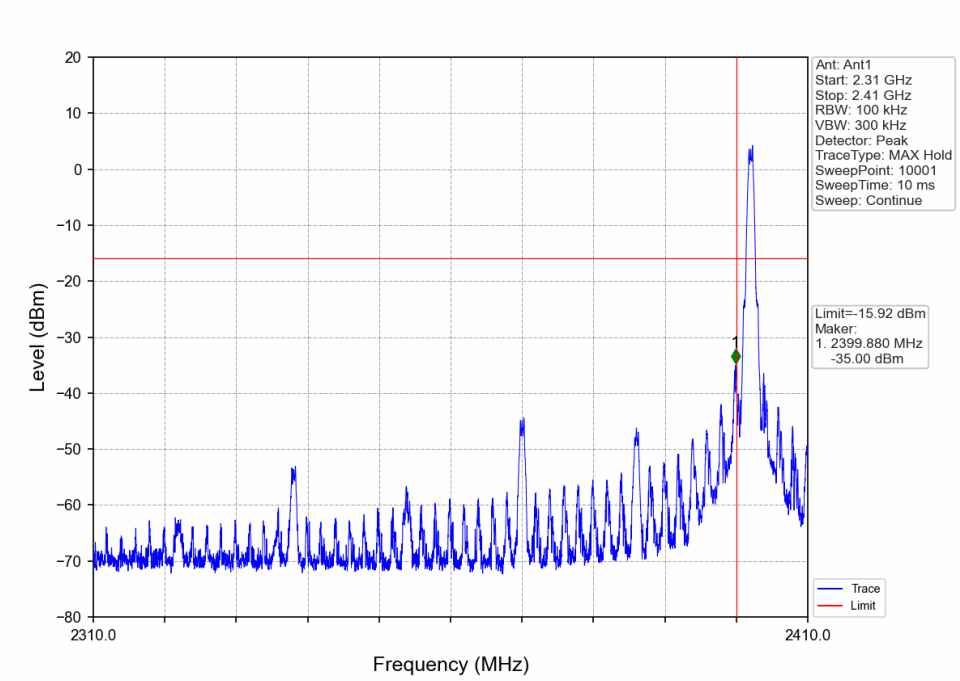
5.2.2 Test Graph

1M_LCH_2402MHz_DataRate=_Ant1_NTNV



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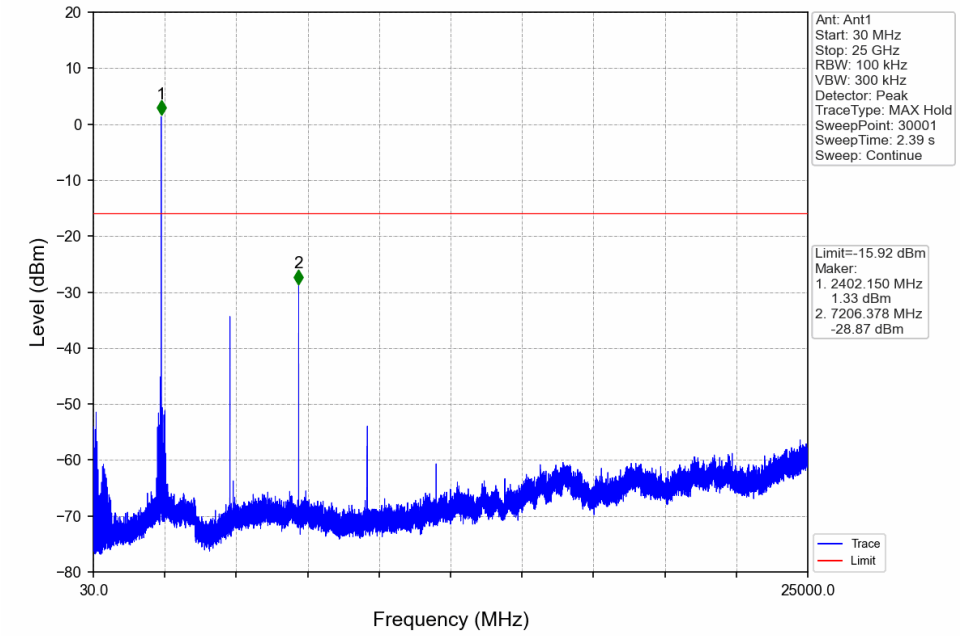

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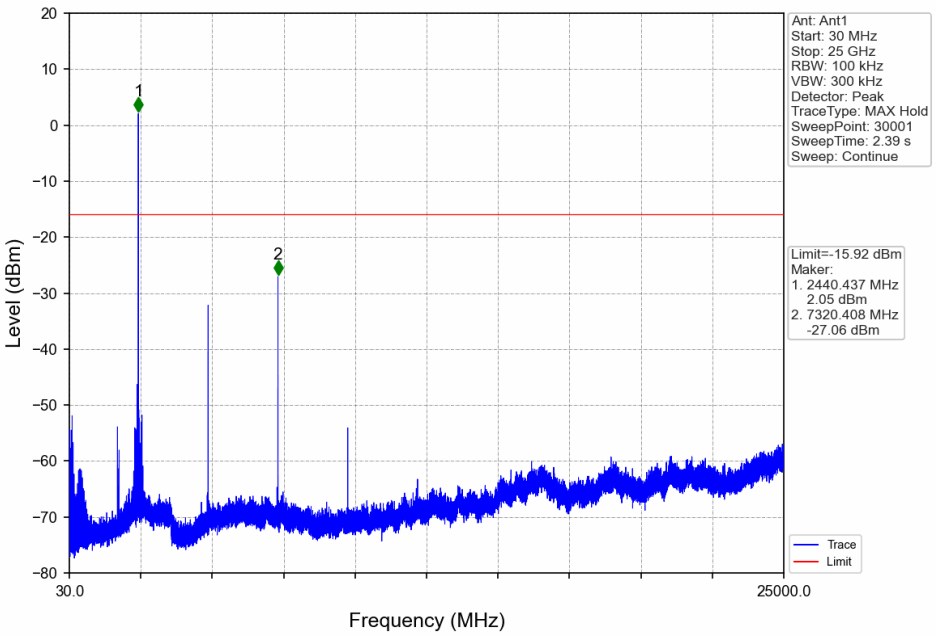

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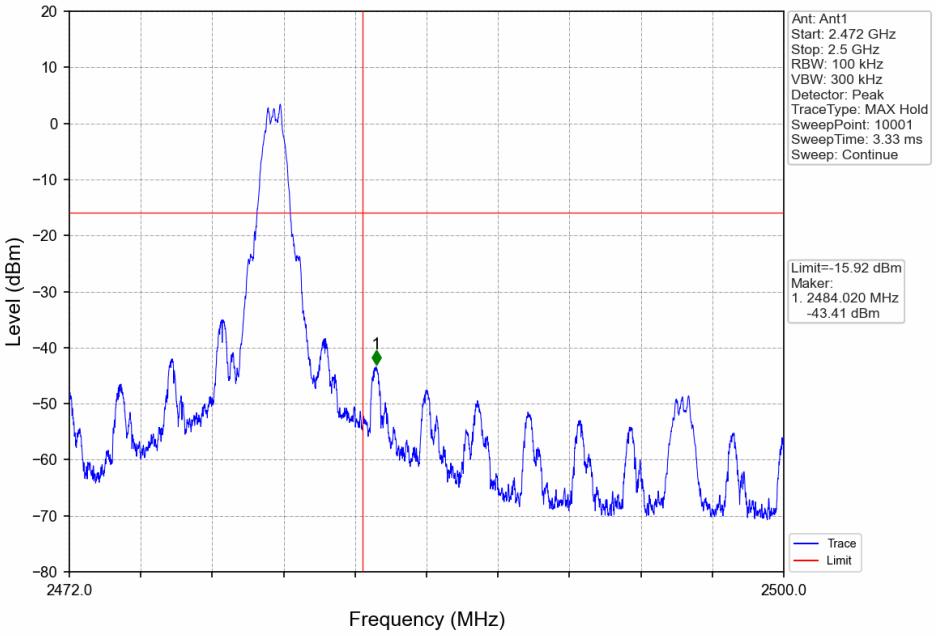

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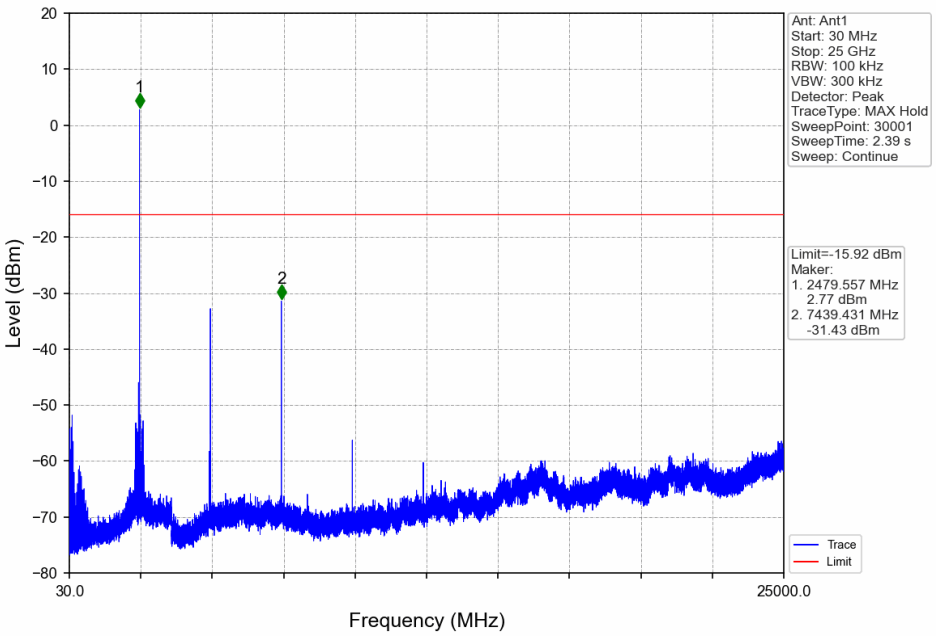
1M_HCH_2480MHz_DataRate=_Ant1_NTNV



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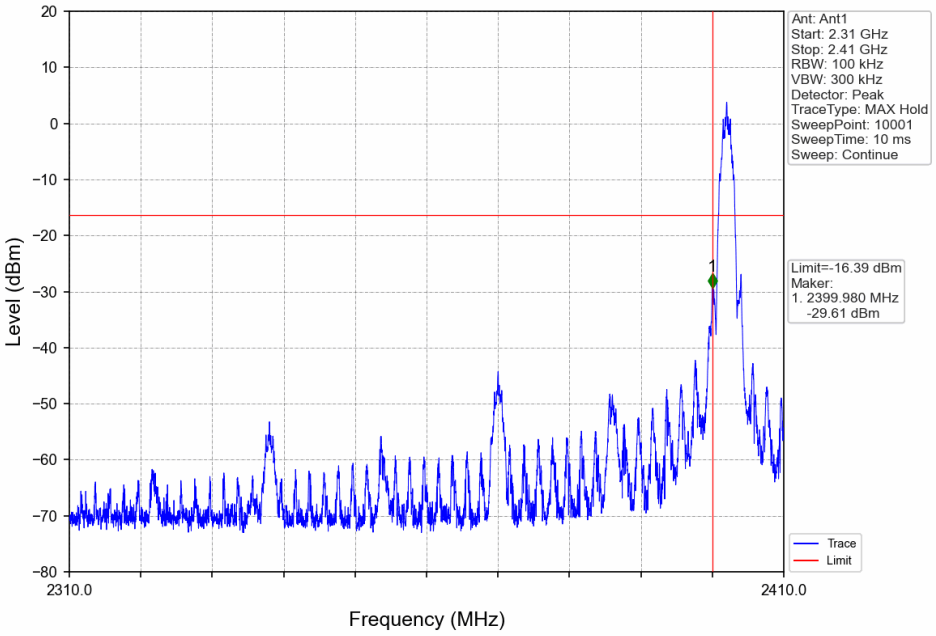

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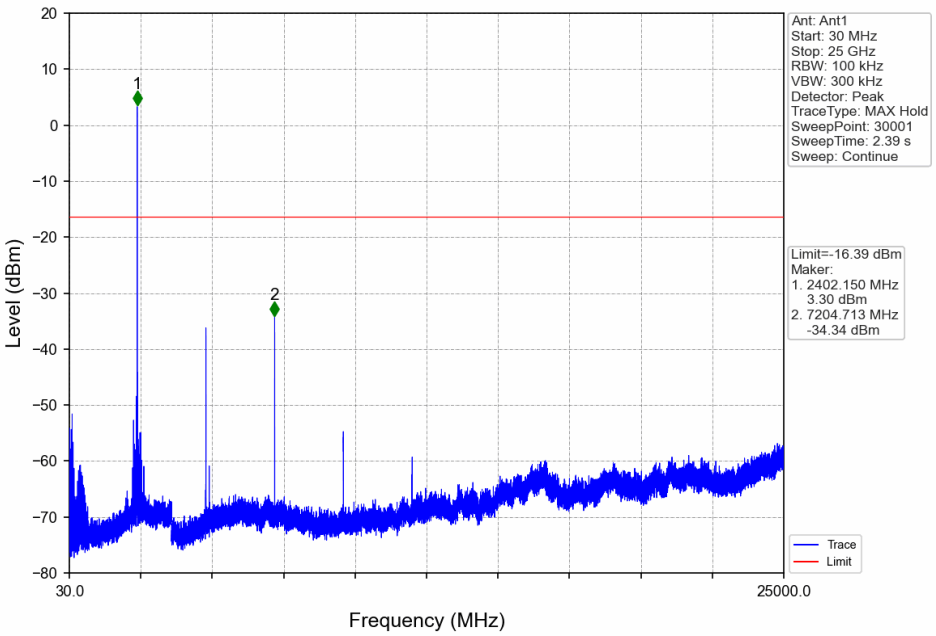
2M_LCH_2402MHz_DataRate=_Ant1_NTNV



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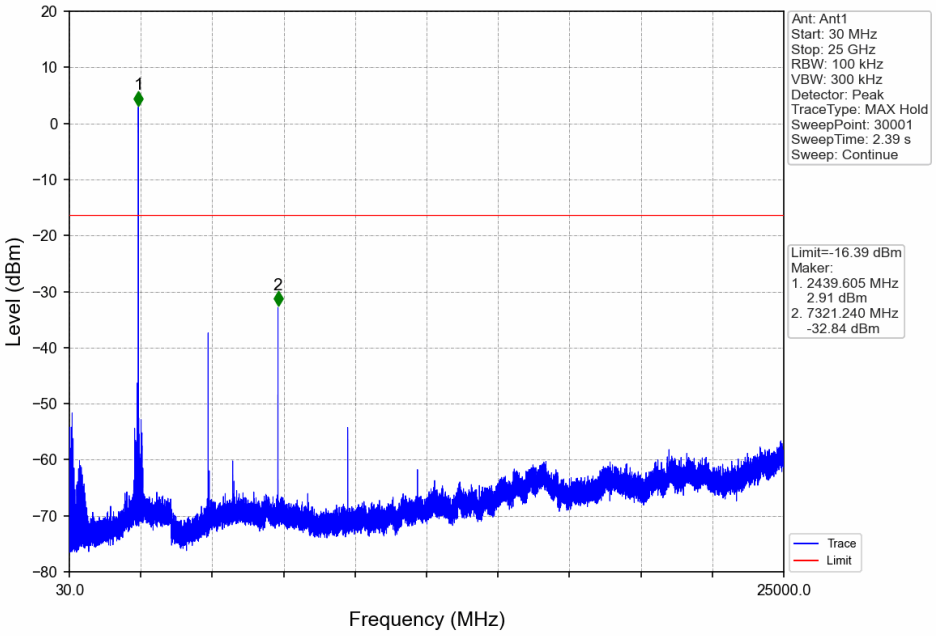

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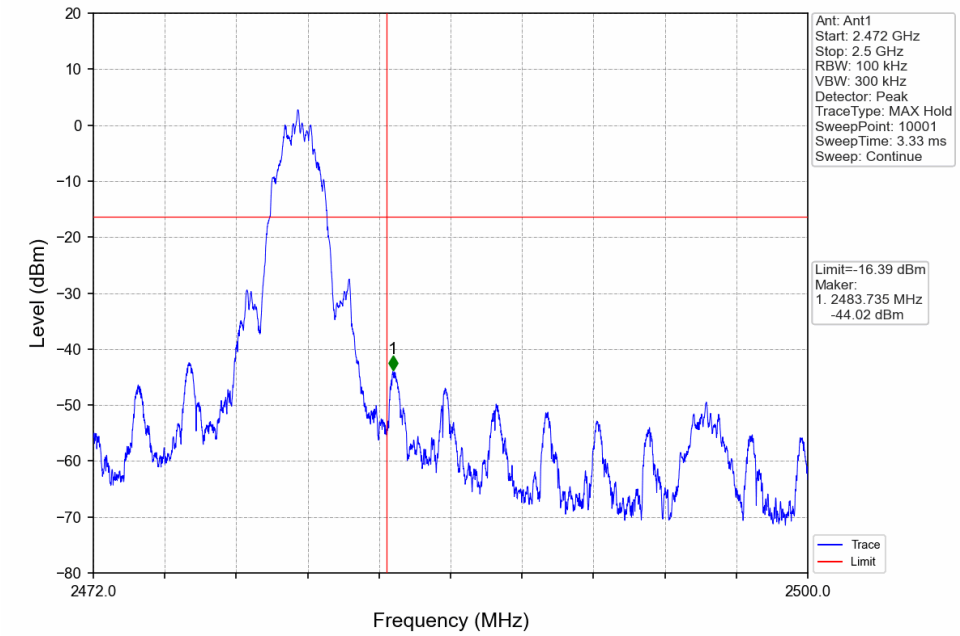

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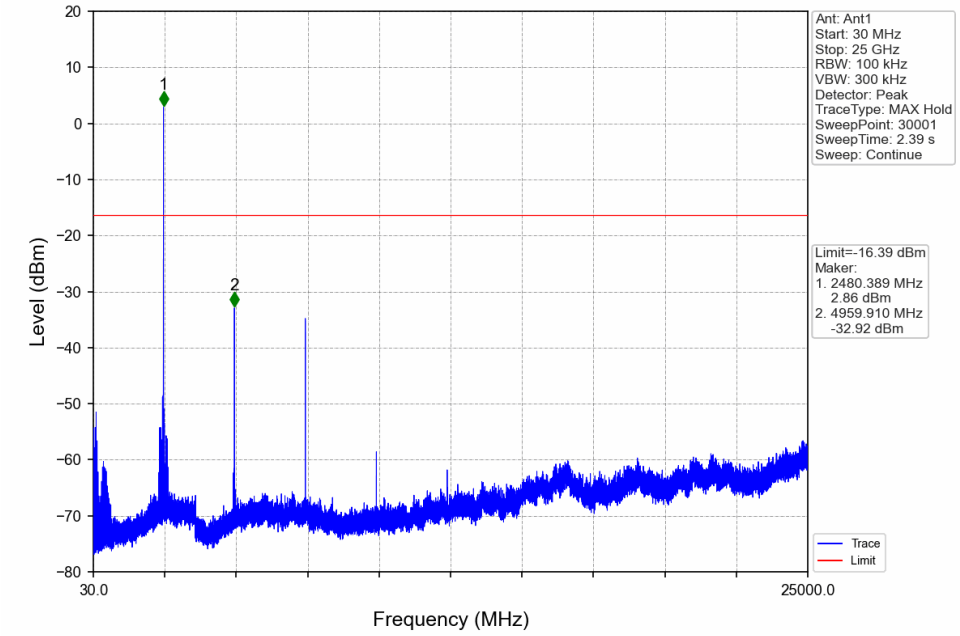

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