

**TEST REPORT**

**Application No.:** GZCR2211001513AT  
**Applicant:** SKULLCANDY, INC.  
**Address of Applicant:** 6301 N Landmark Dr Park City UT 84098, Utah United States of America  
**Manufacturer:** SKULLCANDY, INC.  
**Address of Manufacturer:** 6301 N Landmark Dr Park City UT 84098, Utah United States of America  
**Equipment Under Test (EUT):**

**EUT Name:** Rail / Rail XT  
**Model No.:** S2RLW

**Trade Mark:**



Skullcandy

**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2022-12-03  
**Date of Test:** 2022-12-03 to 2022-12-12  
**Date of Issue:** 2023-01-04

<b>Test Result:</b>	Pass*
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\* In the configuration tested, the EUT complied with the standards specified above.

Ricky Liu  
Manager



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Revision Record			
Version	Report No.	Date	Remark
01		2023-01-04	Original

Authorized for issue by			
			
	<u>Curry Wu/Project Engineer</u>		
			
	<u>Ricky Liu/Reviewer</u>		

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## 2 Test Summary

<b>Radio Spectrum Technical Requirement</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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

<b>Radio Spectrum Matter Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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
Duty Cycle		ANSI C63.10 (2013) Section 11.6	KDB 558074 D01 v05r02 section 6	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.

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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Left earbuds: Li-Ion Polymer Battery DC3.7V 45mAh (Charged by travel case) Right earbuds: Li-Ion Polymer Battery DC3.7V 45mAh (Charged by travel case) travel case with backup battery: Li-Ion Polymer Battery DC3.7V 500mAh (Charged by USB port)
Cable(s):	USB cable: 8cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Rate data:	1Mbit/s and 2Mbit/s
Channel Spacing:	2MHz
Antenna Type:	FPC Antenna
Antenna Gain:	Left earbud:2.6dBi;Right earbud:3.19dBi

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.



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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); ± 5.12dB (1GHz-6GHz); ± 5.38dB (6GHz-18GHz); ± 5.61dB (18GHz-40GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.00dB (30MHz-1GHz; 3m); ±4.38dB (30MHz-1GHz; 10m);
Radiated Spurious Emissions (Above 1GHz)	± 5.12dB (1GHz-6GHz); ± 5.38dB (6GHz-18GHz); ± 5.61dB (18GHz-40GHz)
Duty Cycle	± 0.37%

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.

**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:



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**● NVLAP (Lab Code: 200611-0)**

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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.

**● 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, IEC6001 and Rules of procedure IEC6002, and the relevant IEC600 CB-Scheme Operational documents.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None

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## 5 Equipment List

<b>Conducted Peak Output Power</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2022-05-16	2023-05-15
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2022-09-08	2023-09-07
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

<b>Minimum 6dB Bandwidth</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2022-09-08	2023-09-07
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

<b>Power Spectrum Density</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2022-09-08	2023-09-07
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

<b>Conducted Band Edges Measurement</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2022-09-08	2023-09-07
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

<b>Conducted Spurious Emissions</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2022-09-08	2023-09-07
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
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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<b>Radiated Emissions which fall in the restricted bands</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-18	2022-12-17
				2022-12-16	2023-12-15
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-21	2025-09-20
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-18	2022-12-17
				2022-12-16	2023-12-15
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-18	2022-12-17
				2022-12-16	2023-12-15
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	2022-10-21	2023-10-20
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2022-07-29	2023-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2022-08-24	2023-08-23

<b>Radiated Spurious Emissions (Below 1GHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-18	2022-12-17
				2022-12-16	2023-12-15
Chamber cable	HangTianXing	N/A	EMC0542	2022-08-24	2023-08-23
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-21
				2022-02-20	2025-02-19
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-12-18	2022-12-17
				2022-12-16	2023-12-15
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2022-10-16	2025-10-15



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Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19

**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	2021-12-18	2022-12-17
				2022-12-16	2023-12-15
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-21	2025-09-20
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-18	2022-12-17
				2022-12-16	2023-12-15
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-18	2022-12-17
				2022-12-16	2023-12-15
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	2022-10-21	2023-10-20
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2022-07-29	2023-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2022-08-24	2023-08-23

**Duty Cycle**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2022-09-08	2023-09-07
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

**General used equipment**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23
DMM	Fluke	73	EMC0007	2022-06-24	2023-06-23

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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 Left earbud:2.6dBi;Right earbud:3.19dBi.

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 $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ 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: 24.8 °C Humidity: 54.8 % RH Atmospheric Pressure: 1003 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	01	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation

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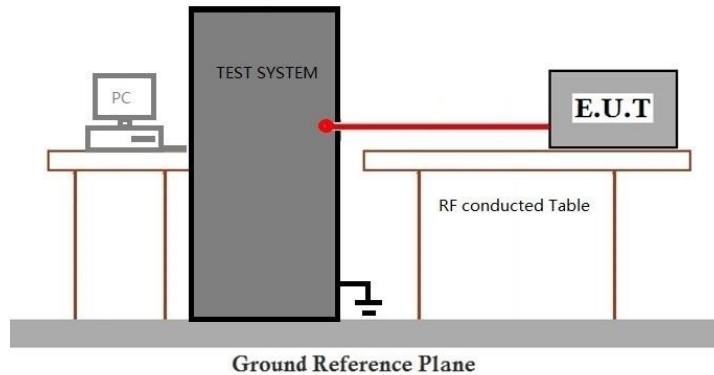
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**7.1.3 Test Setup Diagram****7.1.4 Measurement Procedure and Data**

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

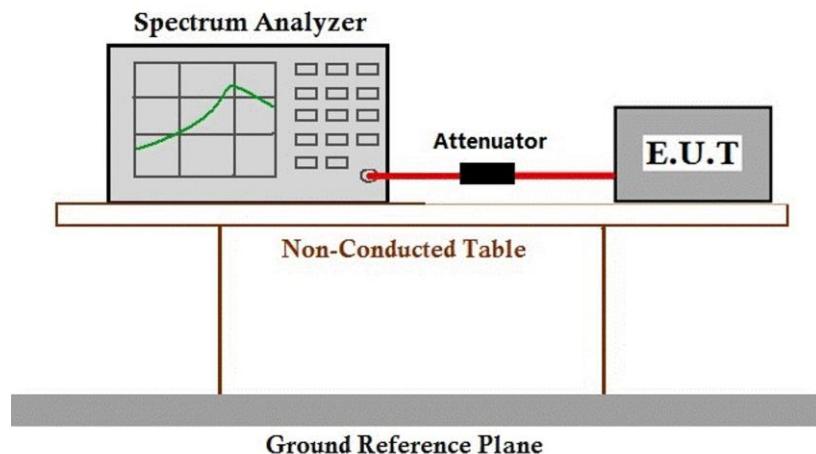
Operating Environment:

Temperature: 24.8 °C Humidity: 54.8 % RH Atmospheric Pressure: 1003 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	01	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(2Mbps)(Right earbud)_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

Please Refer to Appendix for Details

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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

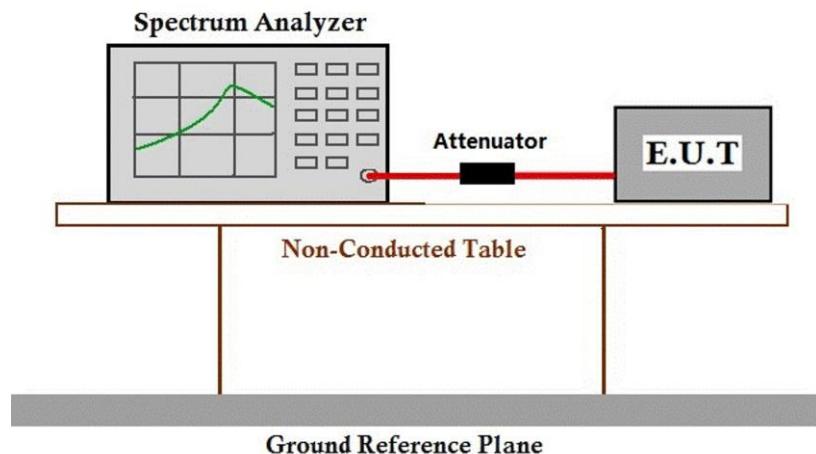
Operating Environment:

Temperature: 24.8 °C Humidity: 54.8 % RH Atmospheric Pressure: 1003 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	01	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(2Mbps)(Right earbud)_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

Please Refer to Appendix for Details

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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

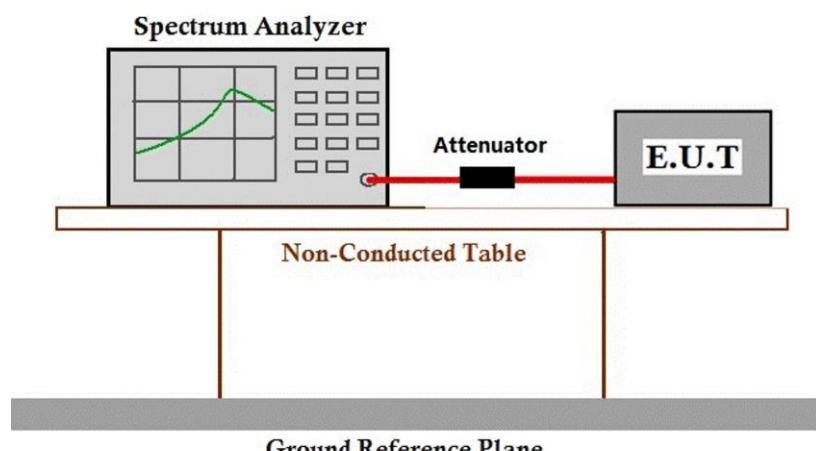
Operating Environment:

Temperature: 24.8 °C Humidity: 54.8 % RH Atmospheric Pressure: 1003 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	01	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation

### 7.4.3 Test Setup Diagram



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**7.4.4 Measurement Procedure and Data**

cable loss=0.9dB

Please Refer to Appendix for Details



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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

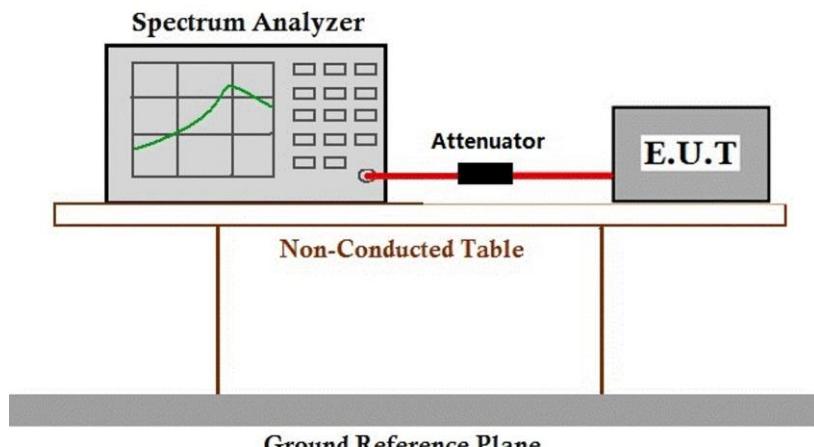
Operating Environment:

Temperature: 24.8 °C Humidity: 54.8 % RH Atmospheric Pressure: 1003 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	01	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation

### 7.5.3 Test Setup Diagram



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**7.5.4 Measurement Procedure and Data**

cable loss=0.9dB

Please Refer to Appendix for Details



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**7.6 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 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: 24.8 °C      Humidity: 54.2 % RH      Atmospheric Pressure: 1003 mbar

**7.6.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	01	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation

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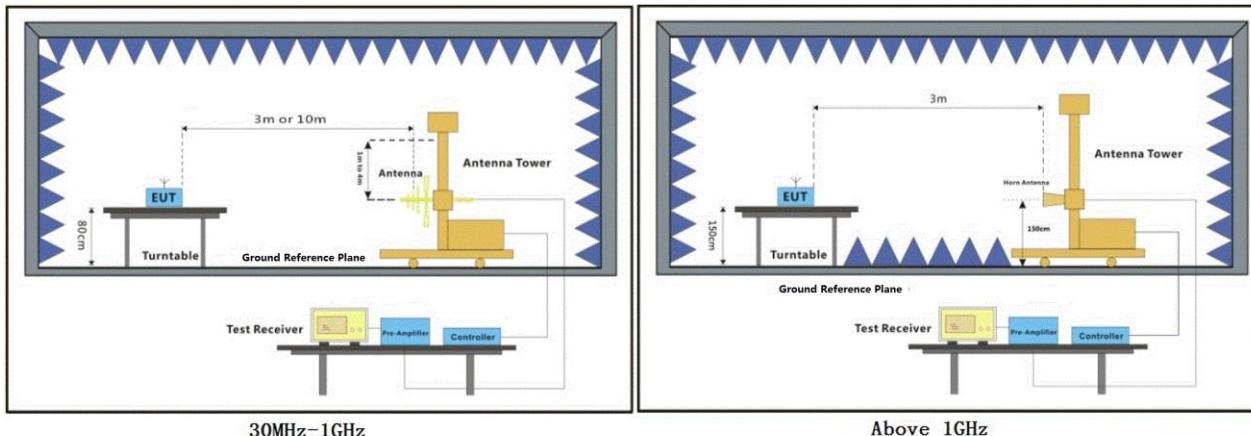
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**7.6.3 Test Setup Diagram****7.6.4 Measurement Procedure and Data**

- 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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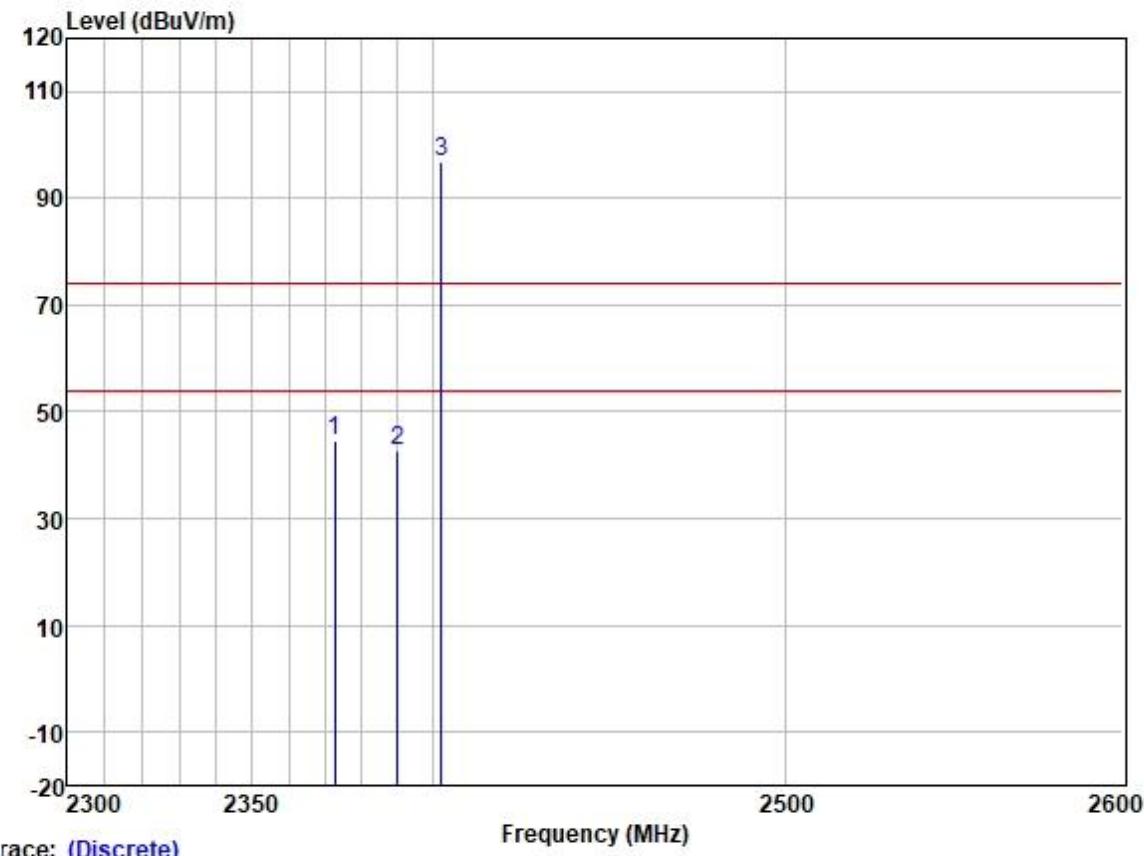


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low

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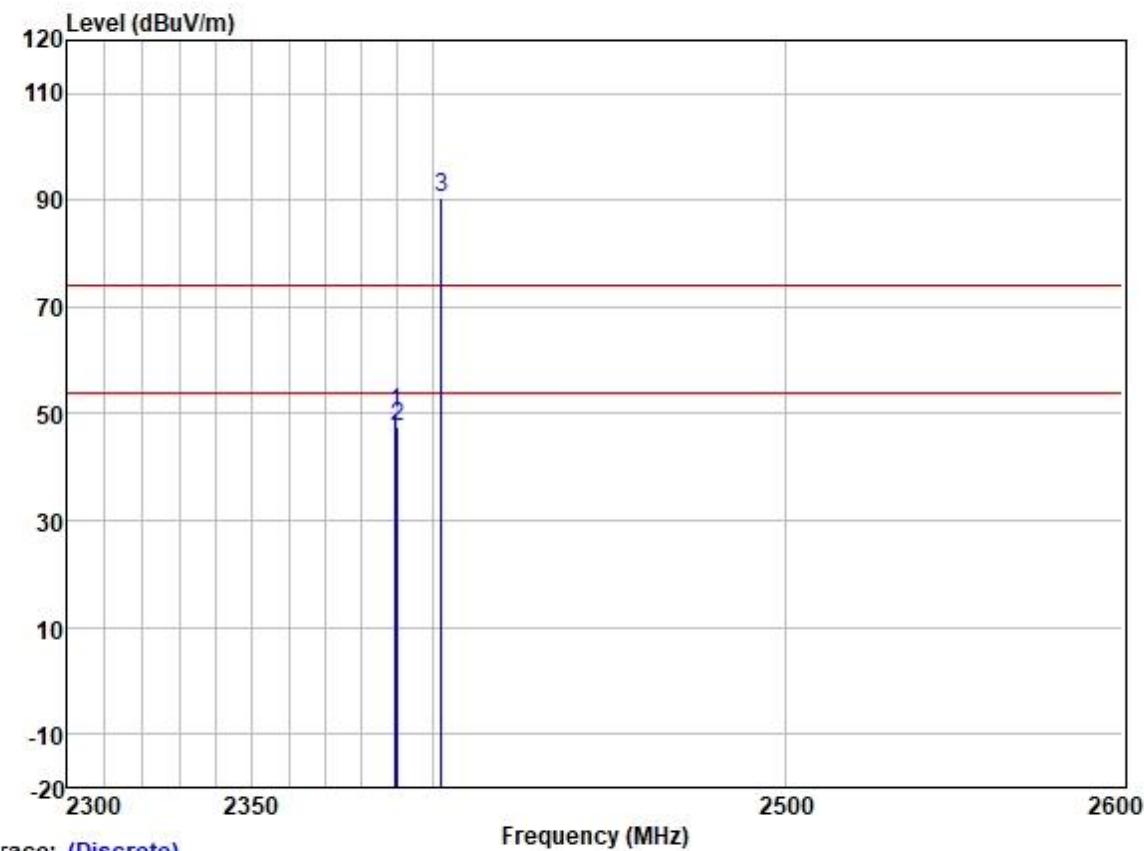
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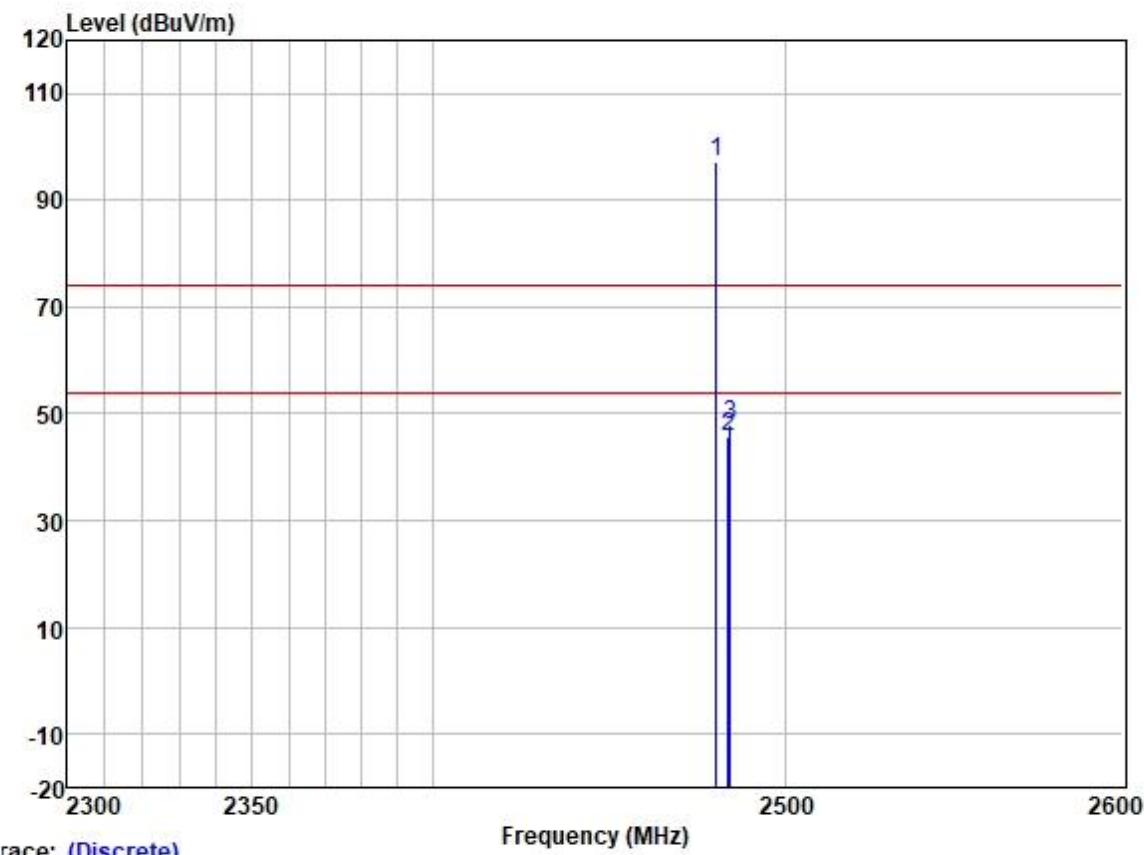
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB					
1 * 2480.000	103.56	27.47	3.60	37.57	97.06	74.00	23.06	HORIZONTAL	Peak			
2 2483.500	52.12	27.48	3.53	37.57	45.56	74.00	-28.44	HORIZONTAL	Peak			
3 2483.896	54.57	27.48	3.53	37.57	48.01	74.00	-25.99	HORIZONTAL	Peak			

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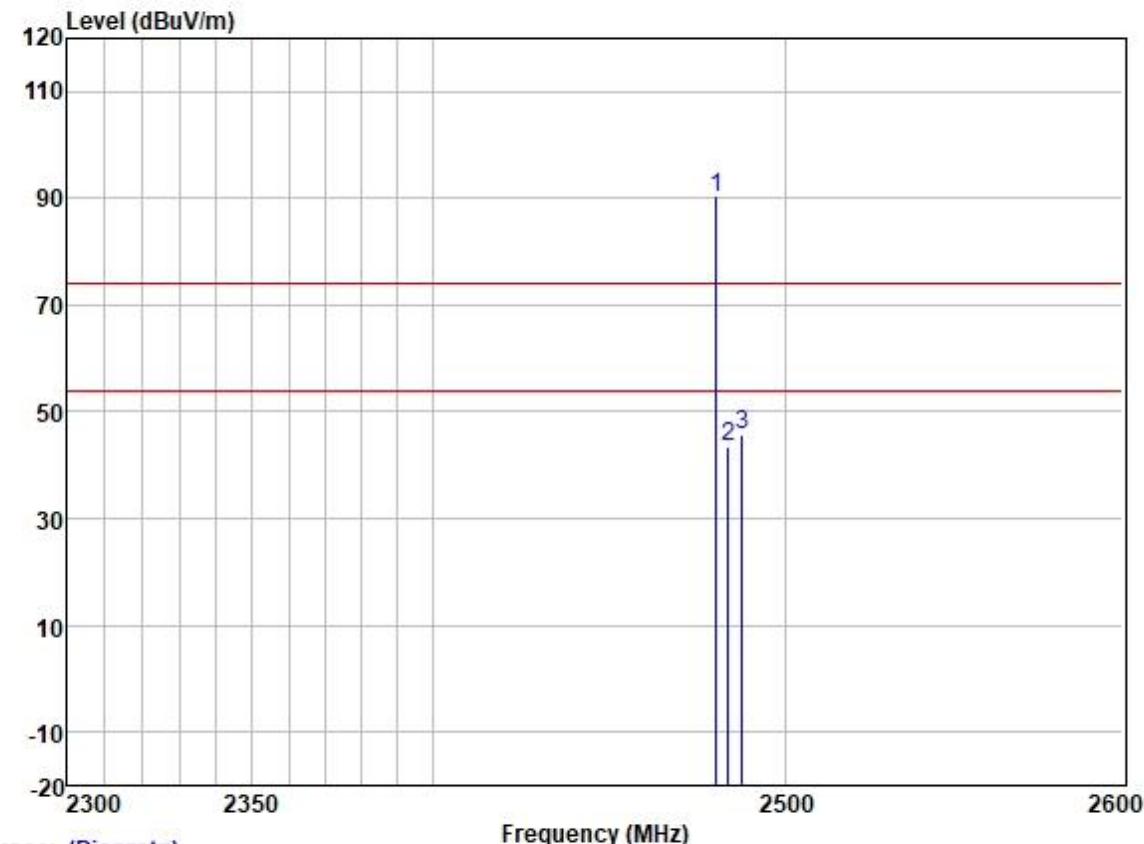
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB					
1 * 2480.000	96.82	27.47	3.60	37.57	90.32	74.00	16.32	VERTICAL			Peak	
2 2483.500	49.86	27.48	3.53	37.57	43.30	74.00	-30.70	VERTICAL			Peak	
3 2487.444	52.35	27.48	3.53	37.57	45.79	74.00	-28.21	VERTICAL			Peak	

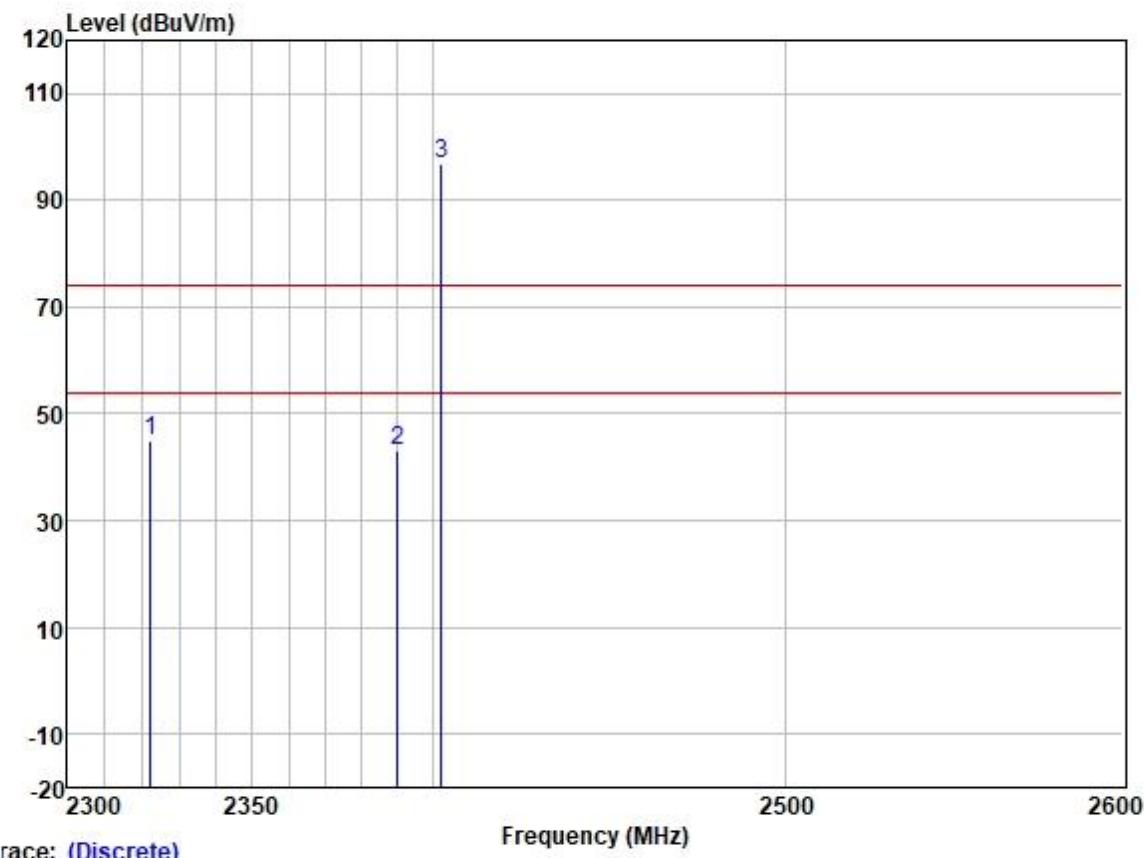
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



	Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Level	dBuV/m	Limit Line	Over Limit	Pol/Phase	Remark
1	2322.368	52.13	27.19	3.34	37.62	45.04	74.00	-28.96	HORIZONTAL	Peak
2	2390.000	49.97	27.33	3.48	37.59	43.19	74.00	-30.81	HORIZONTAL	Peak
3 *	2402.000	103.46	27.35	3.50	37.59	96.72	74.00	22.72	HORIZONTAL	Peak

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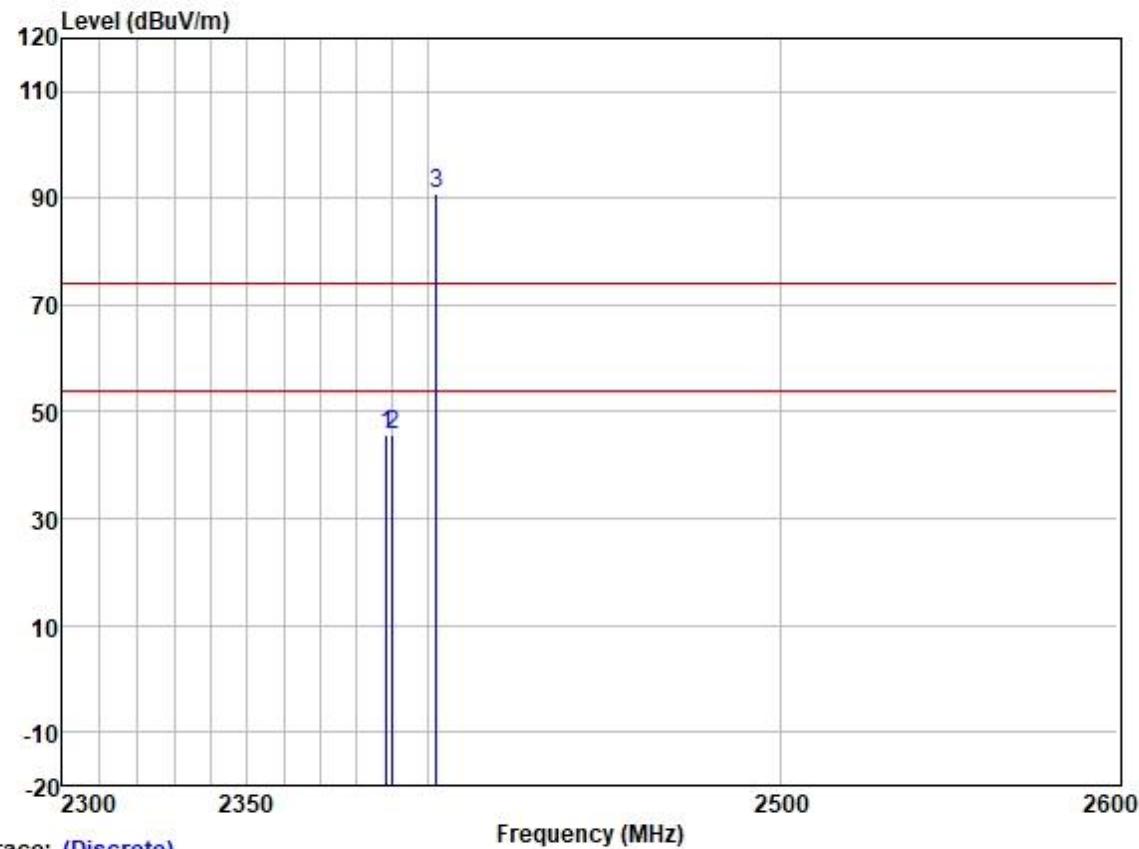


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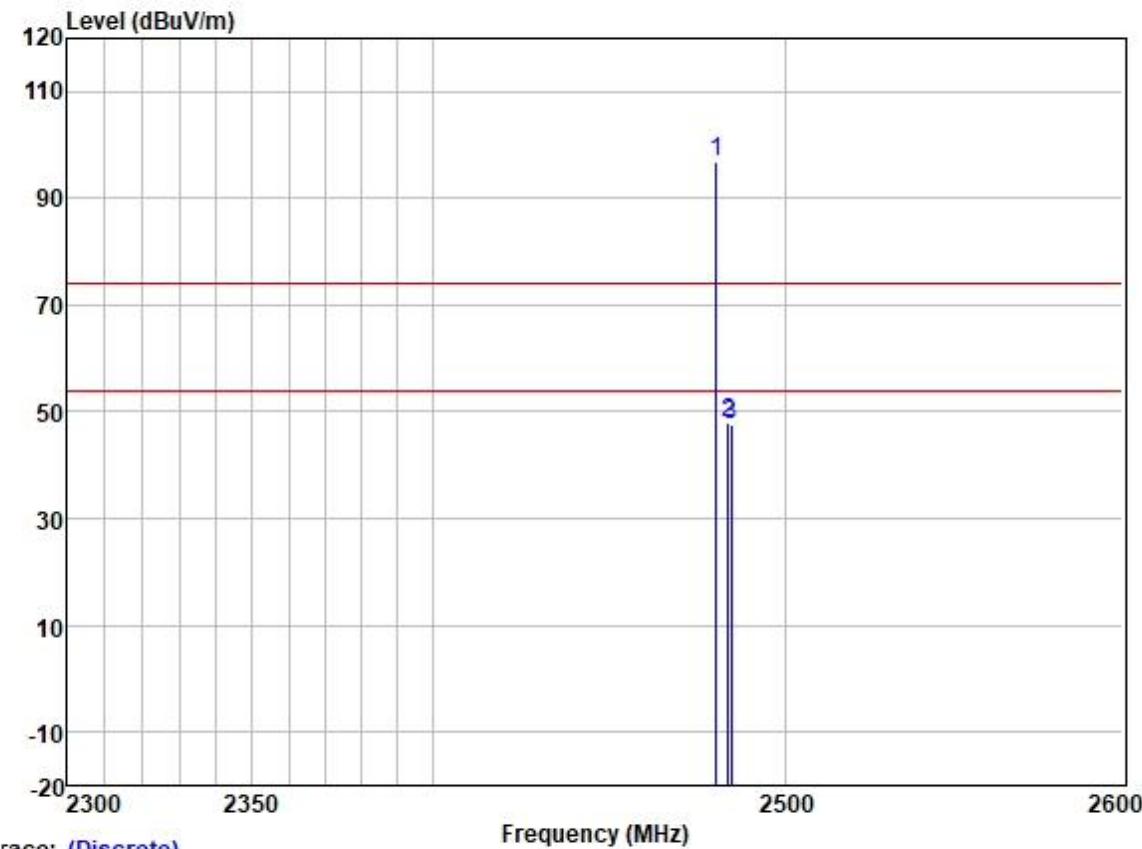
Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 2388.343	52.42	27.33	3.48	37.59	45.64	74.00	-28.36	VERTICAL	Peak	
2 2390.000	52.63	27.33	3.48	37.59	45.85	74.00	-28.15	VERTICAL	Peak	
3 * 2402.000	97.44	27.35	3.50	37.59	90.70	74.00	16.70	VERTICAL	Peak	



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



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 *	2480.000	103.47	27.47	3.60	37.57	96.97	74.00	22.97	HORIZONTAL	Peak	
2	2483.500	54.37	27.48	3.53	37.57	47.81	74.00	-26.19	HORIZONTAL	Peak	
3	2484.221	53.95	27.48	3.53	37.57	47.39	74.00	-26.61	HORIZONTAL	Peak	

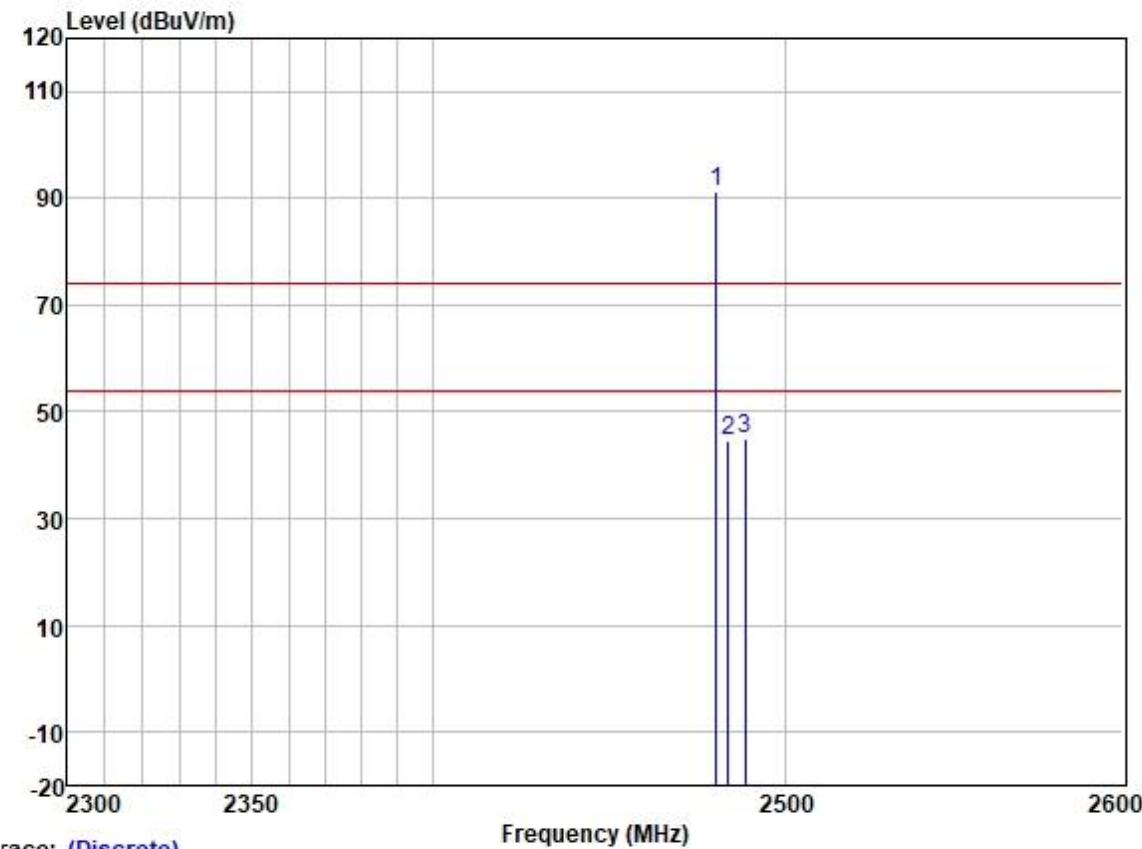
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 * 2480.000	97.80	27.47	3.60	37.57	91.30	74.00	17.30	VERTICAL Peak
2 2483.500	50.98	27.48	3.53	37.57	44.42	74.00	-29.58	VERTICAL Peak
3 2488.219	51.53	27.48	3.53	37.56	44.98	74.00	-29.02	VERTICAL Peak

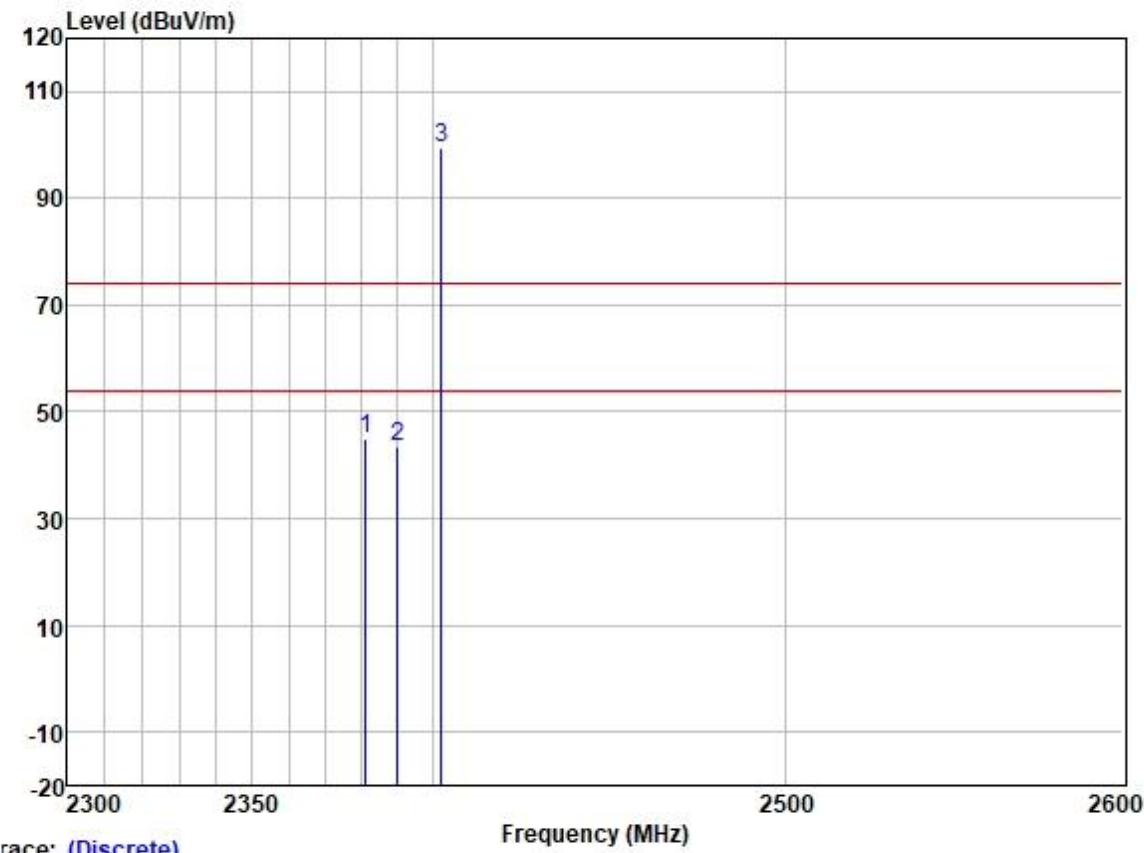
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



	Freq	ReadAntenna	Cable	Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	dB	dB	dBuV/m	dBuV/m	dB			
1	2381.168	51.74	27.31	3.46	37.60	44.91	74.00	-29.09	HORIZONTAL	Peak		
2	2390.000	50.18	27.33	3.48	37.59	43.40	74.00	-30.60	HORIZONTAL	Peak		

3 \* 2402.000 106.04 27.35 3.50 37.59 99.30 74.00 25.30 HORIZONTAL Peak

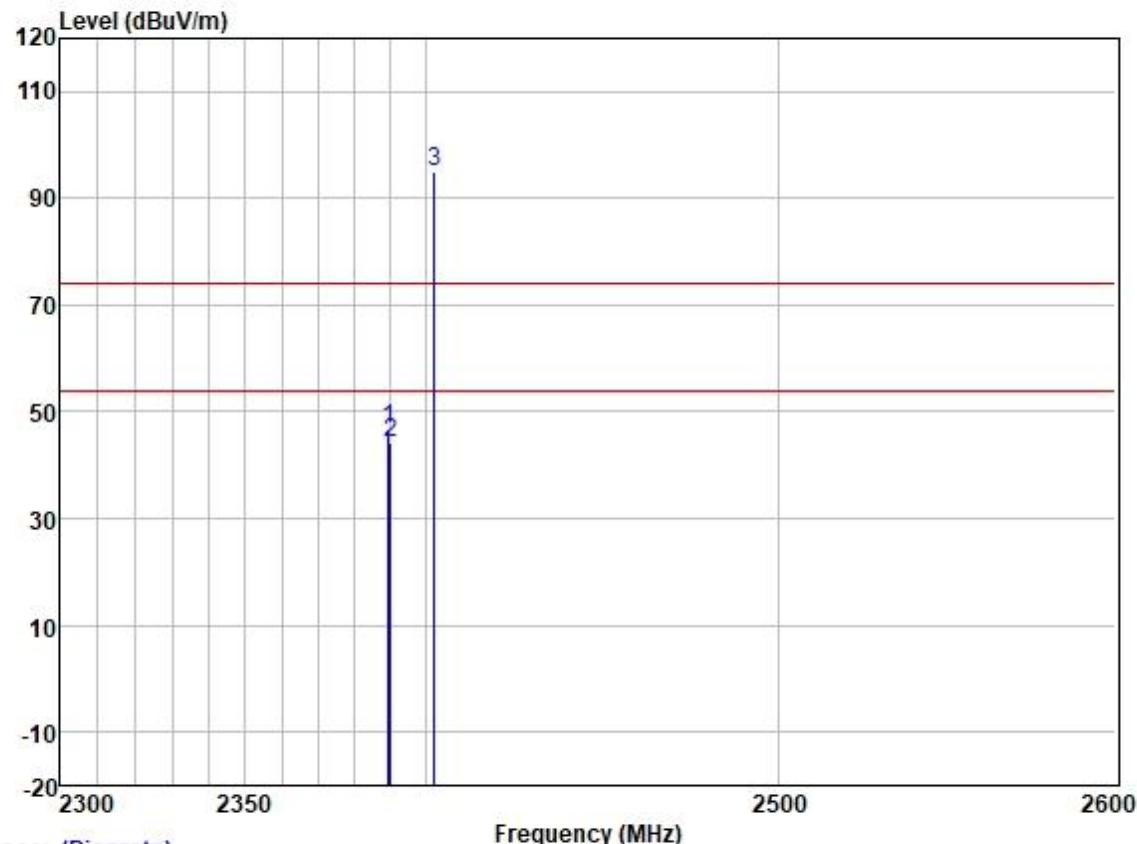
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Freq	ReadAntenna		Cable		Preamp Loss Factor	dB	dBuV/m	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB							
1	2389.254	53.54	27.33	3.48	37.59	46.76	74.00	-27.24	VERTICAL	Peak	
2	2390.000	51.11	27.33	3.48	37.59	44.33	74.00	-29.67	VERTICAL	Peak	
3 *	2402.000	101.86	27.35	3.50	37.59	95.12	74.00	21.12	VERTICAL	Peak	

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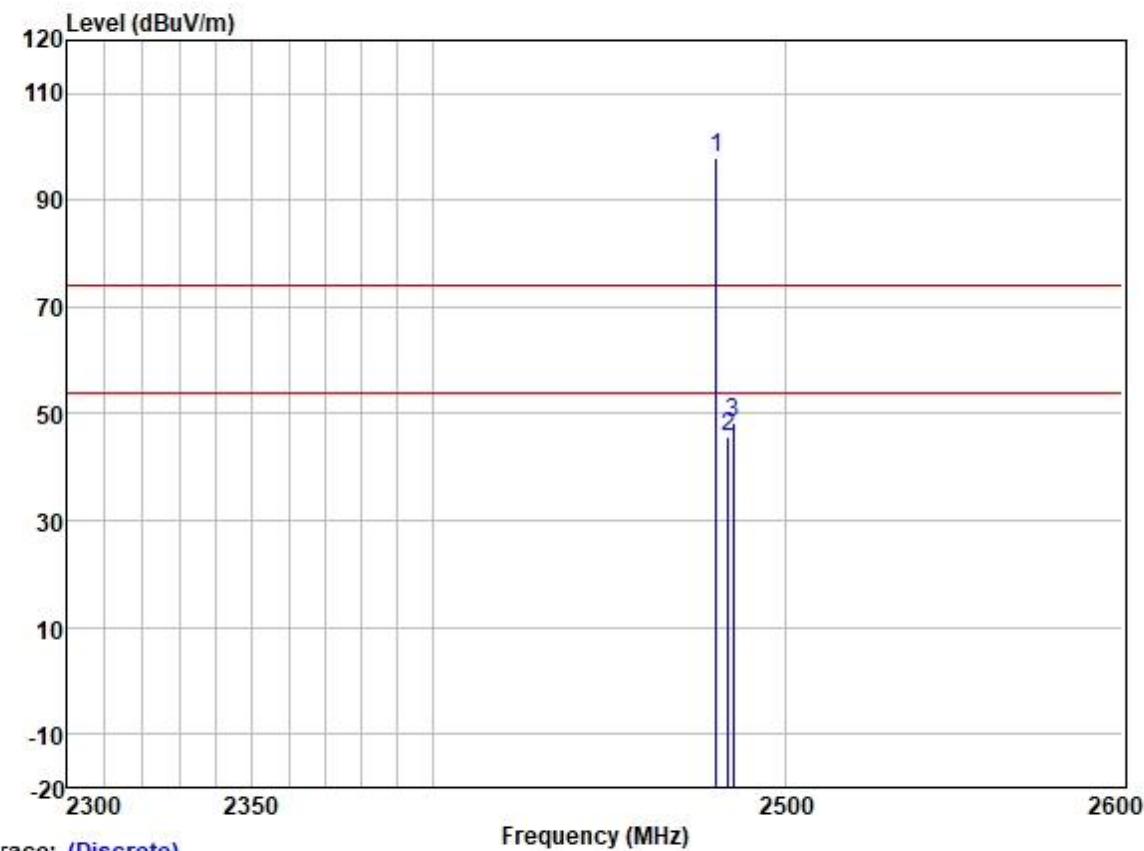


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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2480.000	104.45	27.47	3.60	37.57	97.95	74.00	23.95 HORIZONTAL Peak
2	2483.500	52.25	27.48	3.53	37.57	45.69	74.00	-28.31 HORIZONTAL Peak
3	2484.920	54.97	27.48	3.53	37.57	48.41	74.00	-25.59 HORIZONTAL Peak

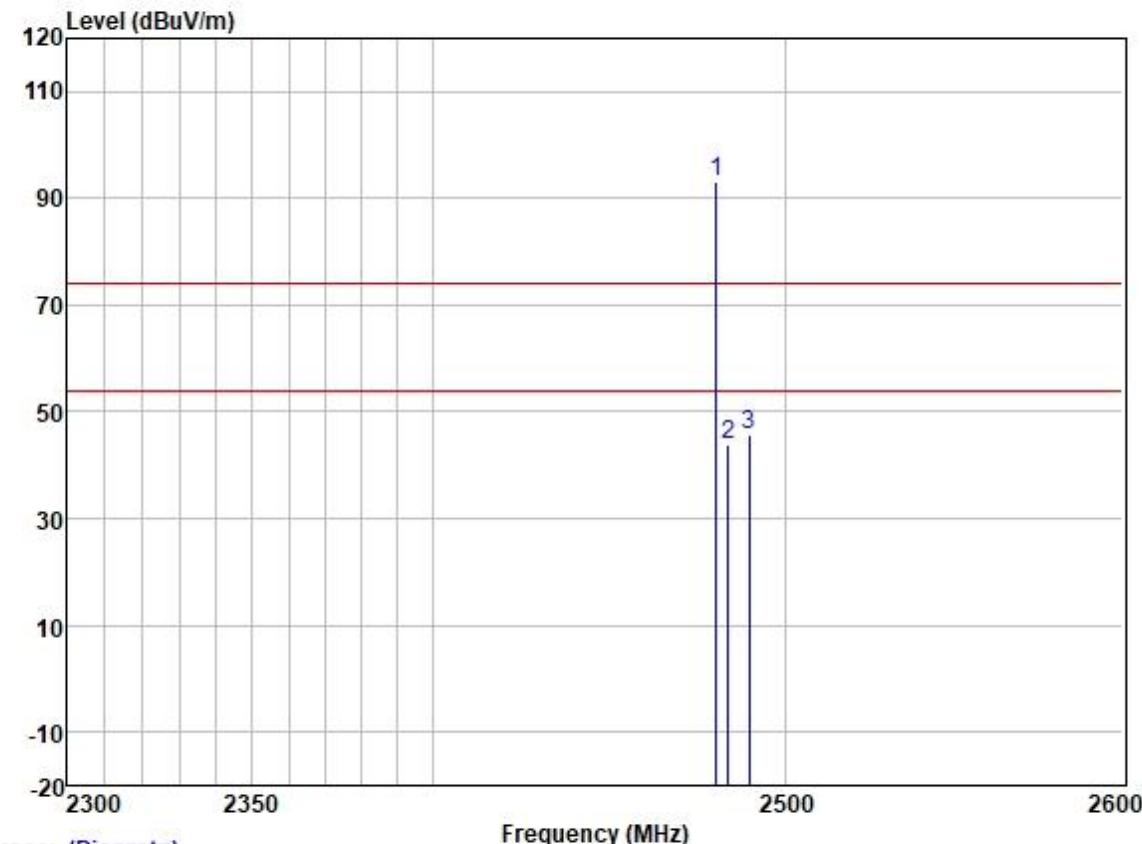
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2480.000	99.76	27.47	3.60	37.57	93.26	74.00	19.26 VERTICAL Peak
2	2483.500	50.58	27.48	3.53	37.57	44.02	74.00	-29.98 VERTICAL Peak
3	2489.419	52.42	27.49	3.47	37.56	45.82	74.00	-28.18 VERTICAL Peak

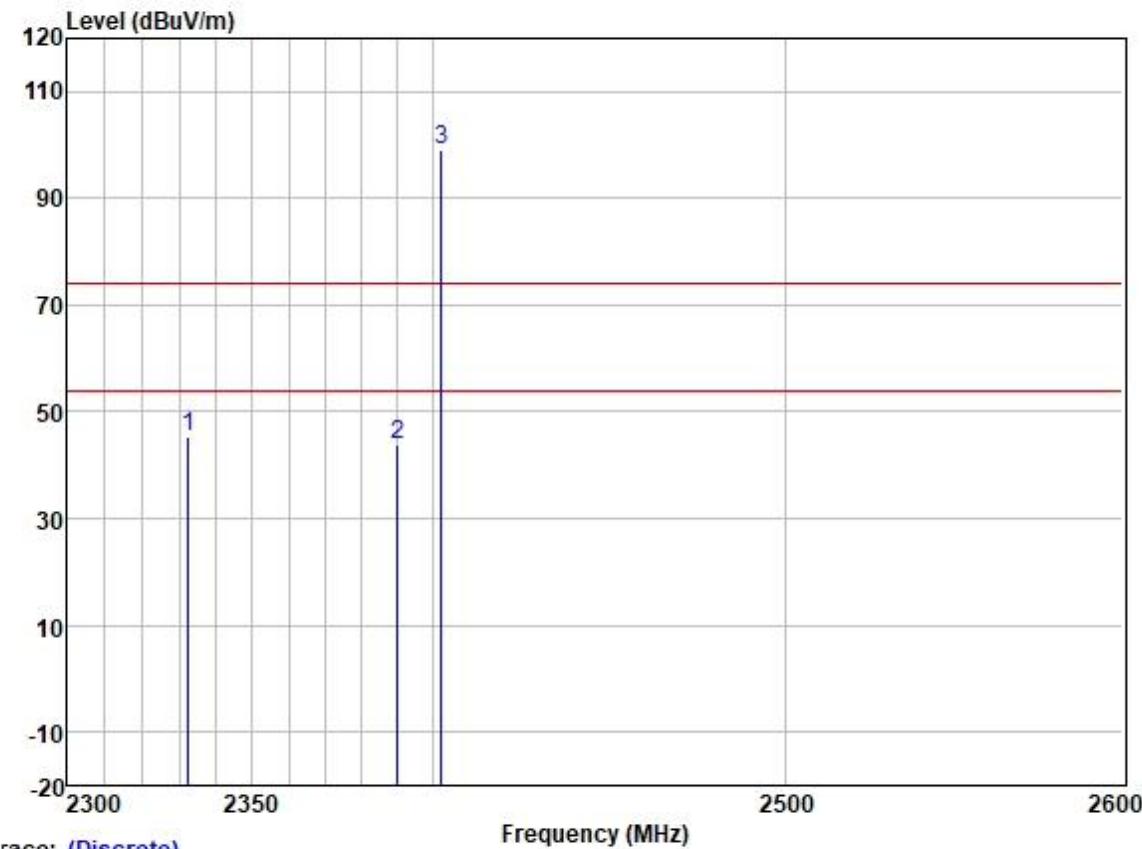
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Line	Pol/Phase	Remark
1	2332.626	52.40	27.20	3.36	37.62	45.34	74.00	-28.66	HORIZONTAL Peak
2	2390.000	50.56	27.33	3.48	37.59	43.78	74.00	-30.22	HORIZONTAL Peak
3 *	2402.000	105.97	27.35	3.50	37.59	99.23	74.00	25.23	HORIZONTAL Peak

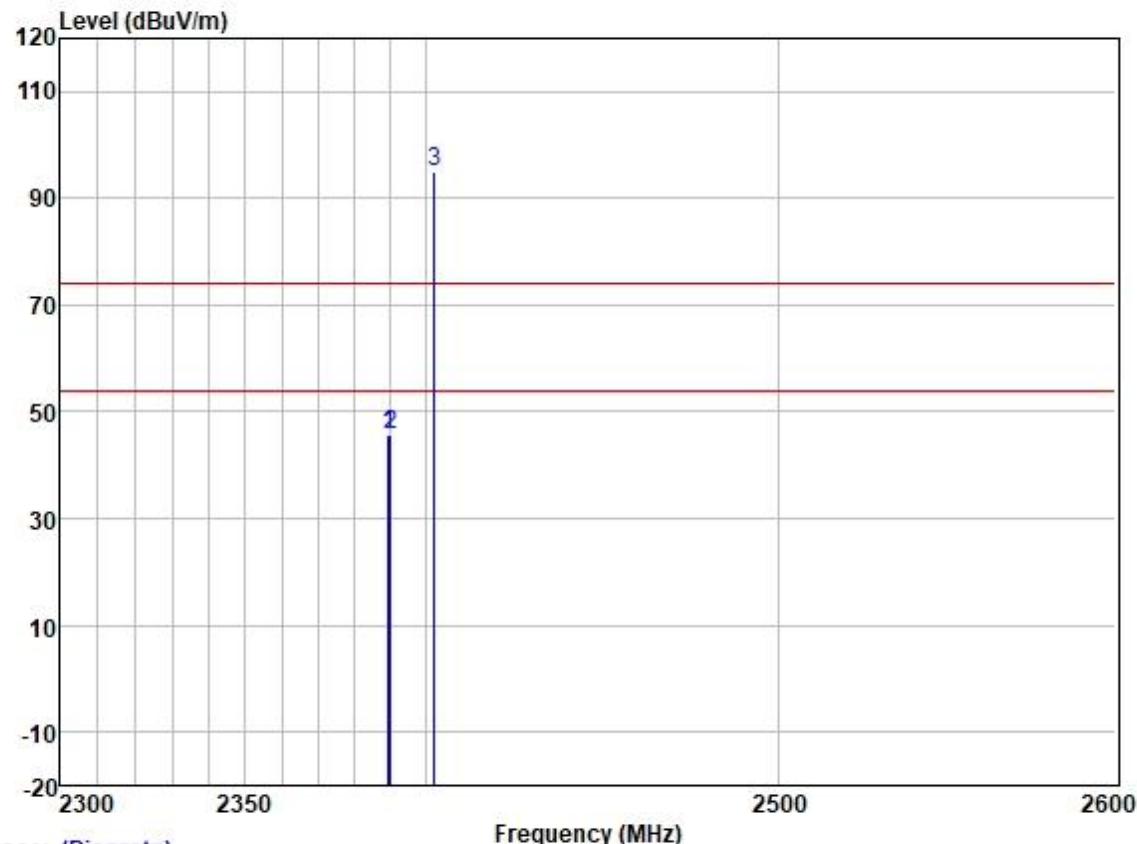
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	2389.457	52.57	27.33	3.48	37.59	45.79	74.00	-28.21	VERTICAL	Peak
2	2390.000	52.41	27.33	3.48	37.59	45.63	74.00	-28.37	VERTICAL	Peak
3 *	2402.000	101.75	27.35	3.50	37.59	95.01	74.00	21.01	VERTICAL	Peak

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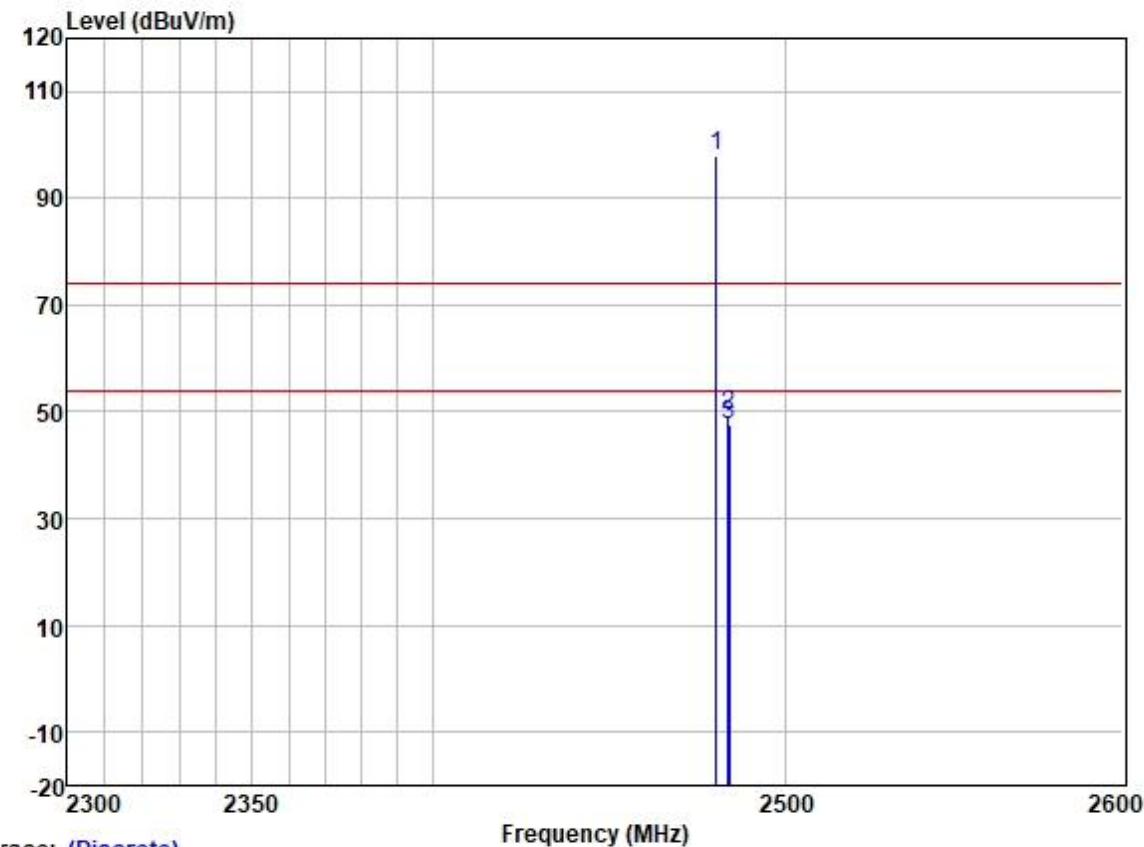
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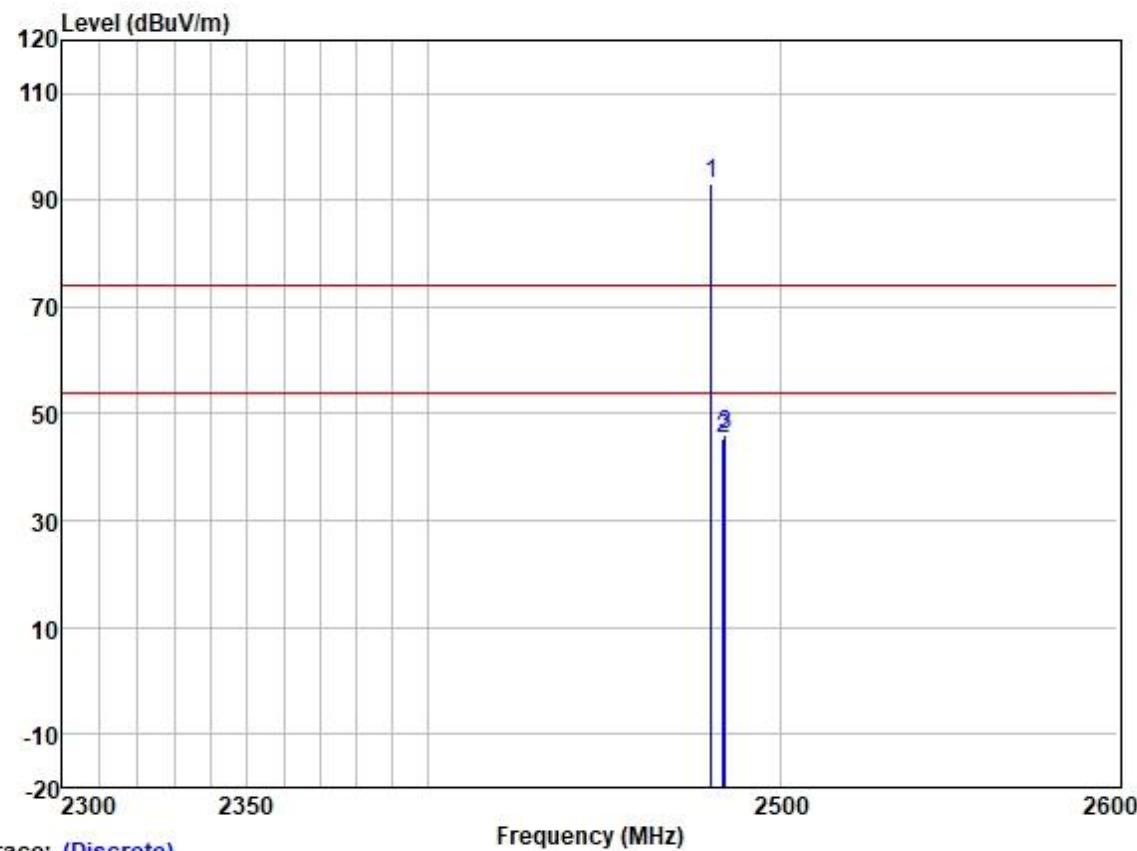
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Freq	ReadAntenna		Cable Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 * 2480.000	99.65	27.47	3.60	37.57	93.15	74.00	19.15	VERTICAL Peak
2 2483.500	51.97	27.48	3.53	37.57	45.41	74.00	-28.59	VERTICAL Peak
3 2484.146	52.72	27.48	3.53	37.57	46.16	74.00	-27.84	VERTICAL Peak

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**7.7 Radiated Spurious Emissions (Below 1GHz)**

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

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

Measurement Distance: 10m

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: 24.4 °C      Humidity: 53.8 % RH      Atmospheric Pressure: 1003 mbar

**7.7.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	01	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation

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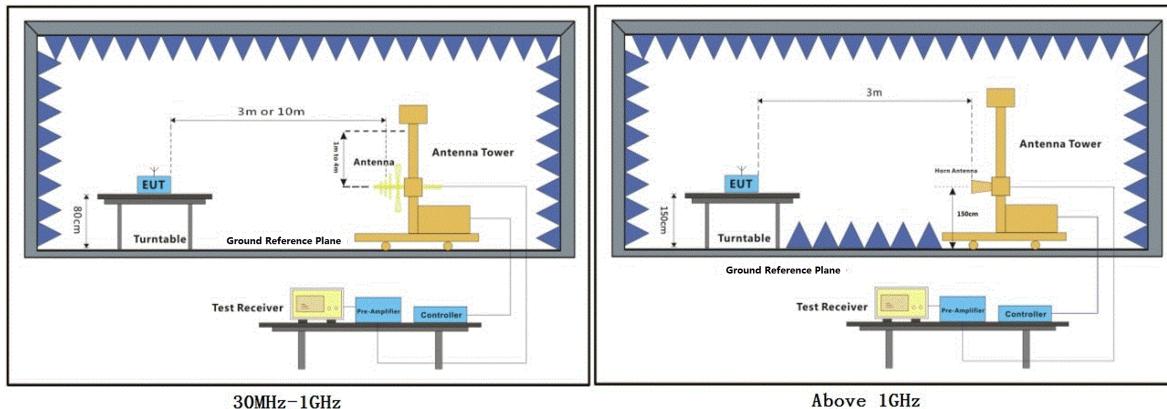
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### 7.7.3 Test Setup Diagram



### 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

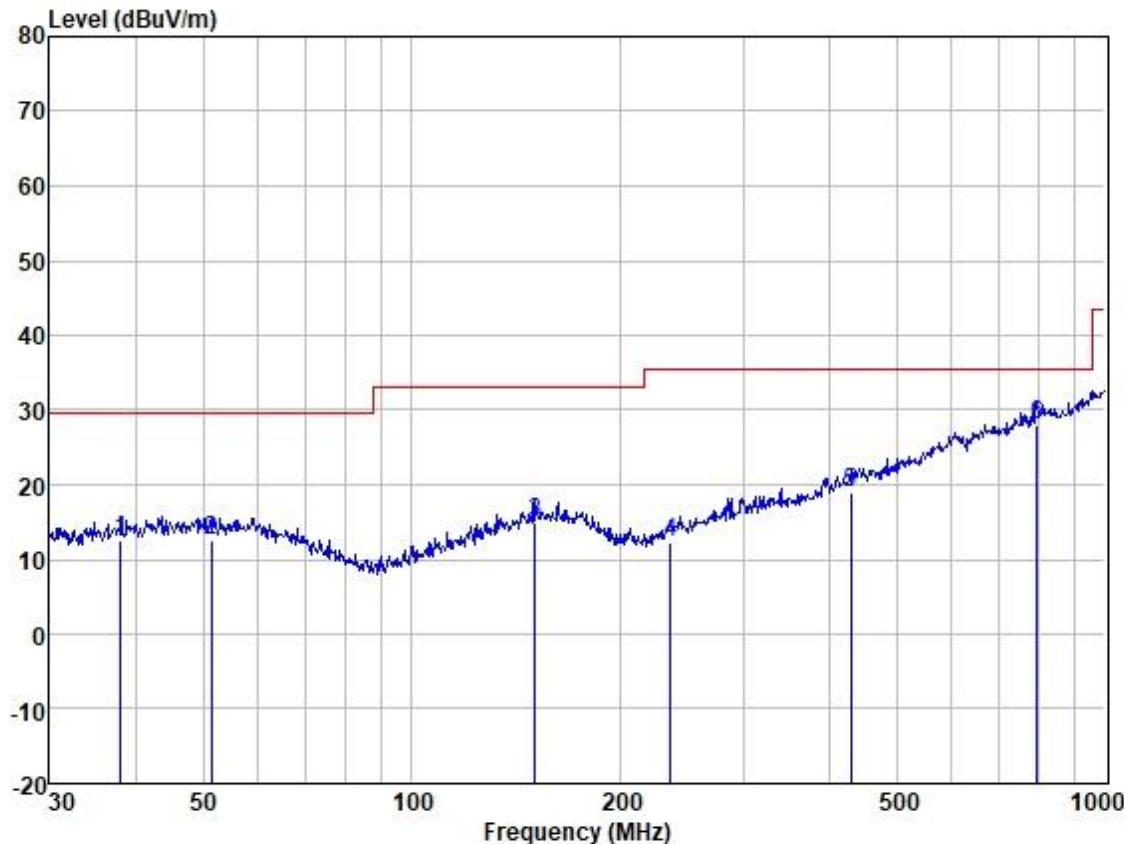
3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit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

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Test Mode: 00; Polarity: Horizontal



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

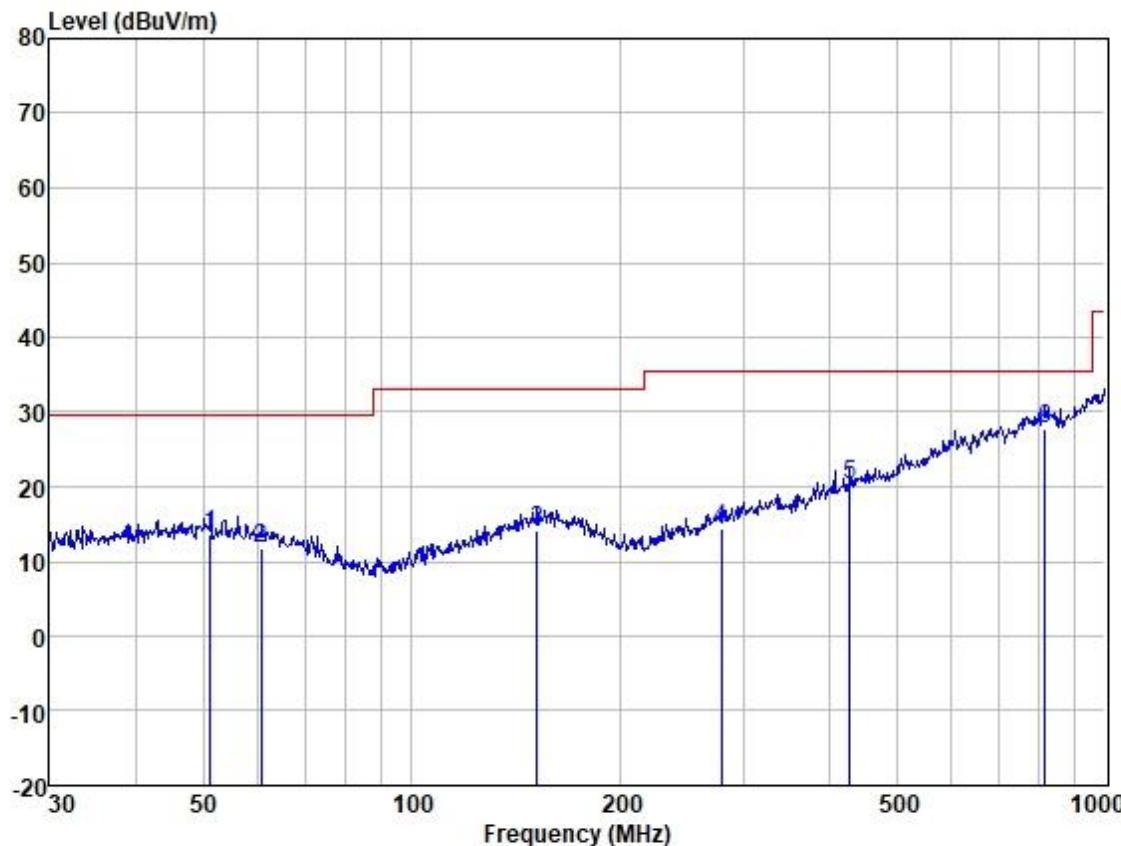
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 37.945	25.89	13.31	1.07	27.62	12.65	29.54	-16.89	HORIZONTAL	QP
2 51.301	25.08	13.97	1.14	27.60	12.59	29.54	-16.95	HORIZONTAL	QP
3 150.538	26.55	13.58	2.23	27.39	14.97	33.06	-18.09	HORIZONTAL	QP
4 235.816	25.40	11.35	2.81	27.27	12.29	35.56	-23.27	HORIZONTAL	QP
5 429.523	26.55	16.47	4.04	28.14	18.92	35.56	-16.64	HORIZONTAL	QP
6 796.183	27.96	22.74	6.00	28.60	28.10	35.56	-7.46	HORIZONTAL	QP

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Test Mode: 00; Polarity: Vertical



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 51.121	26.08	13.97	1.14	27.60	13.59	29.54	-15.95	VERTICAL	QP
2 60.492	24.62	13.33	1.26	27.60	11.61	29.54	-17.93	VERTICAL	QP
3 151.597	25.79	13.58	2.25	27.38	14.24	33.06	-18.82	VERTICAL	QP
4 279.044	25.57	12.91	3.14	27.21	14.41	35.56	-21.15	VERTICAL	QP
5 428.019	28.09	16.35	4.04	28.13	20.35	35.56	-15.21	VERTICAL	QP
6 818.834	26.81	23.39	6.11	28.54	27.77	35.56	-7.79	VERTICAL	QP

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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:

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
37.945	12.65	4.29	14.30	23.11	40.00	-16.89	H
51.301	12.59	4.26	14.20	23.05	40.00	-16.95	H
150.538	14.97	5.60	18.68	25.43	43.52	-18.09	H
235.816	12.29	4.12	13.72	22.75	46.02	-23.27	H
429.523	18.92	8.83	29.44	29.38	46.02	-16.64	H
796.183	28.10	25.41	84.70	38.56	46.02	-7.46	H
51.121	13.59	4.78	15.94	24.05	40.00	-15.95	V
60.492	11.61	3.81	12.69	22.07	40.00	-17.93	V
151.597	14.24	5.15	17.17	24.70	43.52	-18.82	V
279.044	14.41	5.25	17.51	24.87	46.02	-21.15	V
428.019	20.35	10.41	34.70	30.81	46.02	-15.21	V
818.834	27.77	24.46	81.54	38.23	46.02	-7.79	V

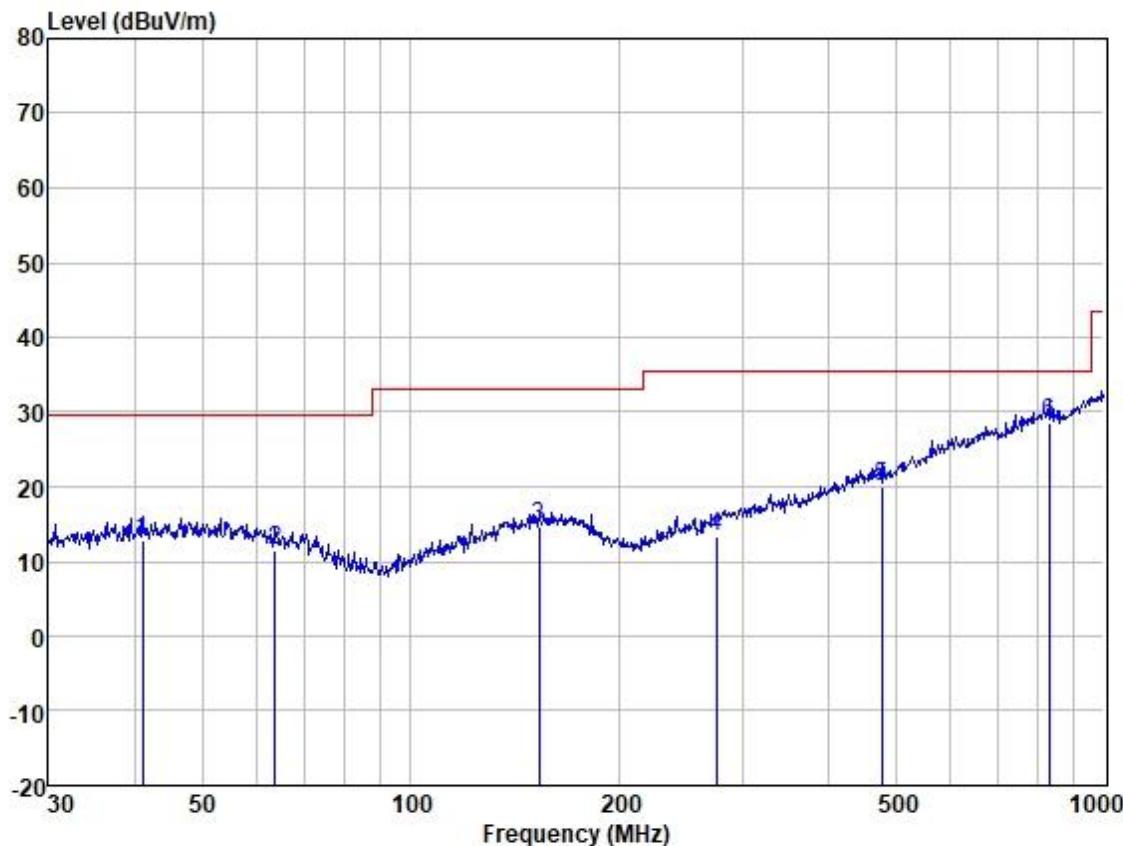
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Test Mode: 01; Polarity: Horizontal



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 40.988	25.66	13.58	1.09	27.61	12.72	29.54	-16.82	VERTICAL	QP
2 63.759	25.02	12.76	1.32	27.60	11.50	29.54	-18.04	VERTICAL	QP
3 153.200	26.20	13.59	2.27	27.38	14.68	33.06	-18.38	VERTICAL	QP
4 276.124	24.49	12.83	3.12	27.21	13.23	35.56	-22.33	VERTICAL	QP
5 477.169	26.74	17.33	4.32	28.52	19.87	35.56	-15.69	VERTICAL	QP
6 833.317	27.71	23.09	6.14	28.49	28.45	35.56	-7.11	VERTICAL	QP

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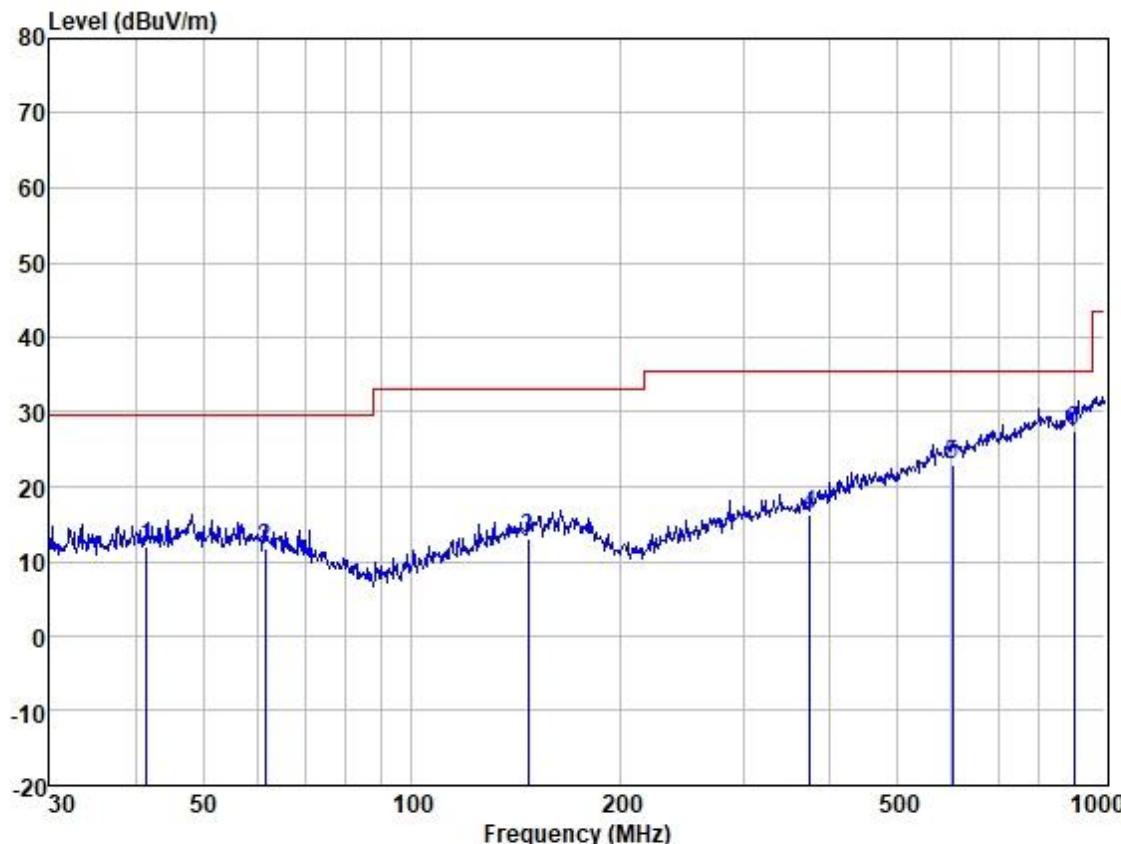
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Test Mode: 01; Polarity: Vertical



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	41.422	24.87	13.66	1.10	27.61	12.02	29.54	-17.52	HORIZONTAL QP
2	61.346	24.97	13.20	1.28	27.60	11.85	29.54	-17.69	HORIZONTAL QP
3	146.888	24.97	13.40	2.19	27.40	13.16	33.06	-19.90	HORIZONTAL QP
4	374.623	25.35	14.95	3.76	27.88	16.18	35.56	-19.38	HORIZONTAL QP
5	601.427	26.47	20.19	4.98	28.80	22.84	35.56	-12.72	HORIZONTAL QP
6	900.147	26.16	23.08	6.41	28.20	27.45	35.56	-8.11	HORIZONTAL QP

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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:

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
40.988	12.72	4.33	14.42	23.18	40.00	-16.82	H
63.759	11.50	3.76	12.53	21.96	40.00	-18.04	H
153.200	14.68	5.42	18.07	25.14	43.52	-18.38	H
276.124	13.23	4.59	15.29	23.69	46.02	-22.33	H
477.169	19.87	9.85	32.84	30.33	46.02	-15.69	H
833.317	28.45	26.45	88.18	38.91	46.02	-7.11	H
41.422	12.02	3.99	13.30	22.48	40.00	-17.52	V
61.346	11.85	3.91	13.04	22.31	40.00	-17.69	V
146.888	13.16	4.55	15.17	23.62	43.52	-19.90	V
374.623	16.18	6.44	21.47	26.64	46.02	-19.38	V
601.427	22.84	13.87	46.23	33.30	46.02	-12.72	V
900.147	27.45	23.58	78.59	37.91	46.02	-8.11	V

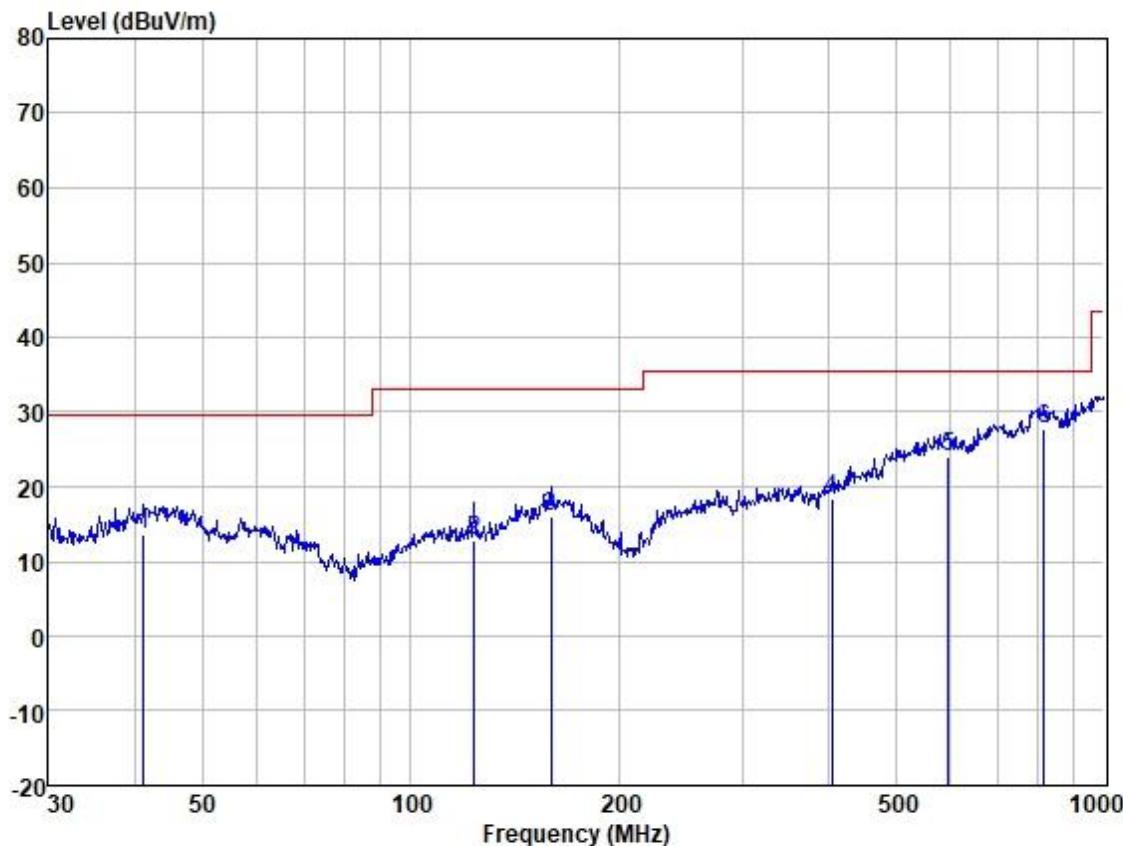
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Test Mode: 04; Polarity: Horizontal



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 41.132	26.45	13.58	1.09	27.61	13.51	29.54	-16.03	HORIZONTAL	QP
2 123.266	27.03	11.47	1.87	27.55	12.82	33.06	-20.24	HORIZONTAL	QP
3 159.225	27.37	13.67	2.32	27.36	16.00	33.06	-17.06	HORIZONTAL	QP
4 404.667	26.89	15.64	3.90	28.02	18.41	35.56	-17.15	HORIZONTAL	QP
5 595.133	27.93	20.04	4.95	28.79	24.13	35.56	-11.43	HORIZONTAL	QP
6 818.834	26.75	23.39	6.11	28.54	27.71	35.56	-7.85	HORIZONTAL	QP

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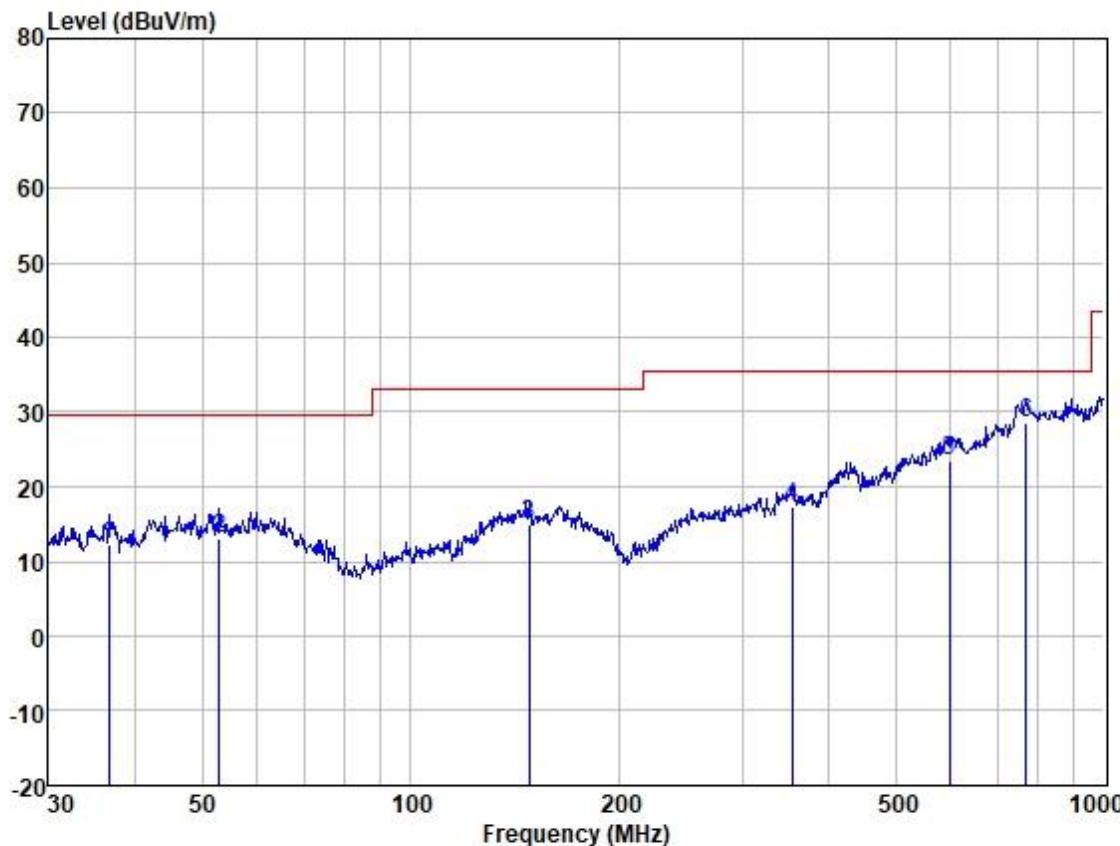
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Test Mode: 04; Polarity: Vertical



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	36.637	25.58	13.20	1.07	27.62	12.23	29.54	-17.31	VERTICAL QP
2	52.945	25.57	13.90	1.16	27.60	13.03	29.54	-16.51	VERTICAL QP
3	147.921	26.64	13.44	2.21	27.40	14.89	33.06	-18.17	VERTICAL QP
4	354.183	26.90	14.49	3.65	27.72	17.32	35.56	-18.24	VERTICAL QP
5	597.223	27.30	20.11	4.98	28.80	23.59	35.56	-11.97	VERTICAL QP
6	771.449	29.17	22.17	5.92	28.62	28.64	35.56	-6.92	VERTICAL QP

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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:

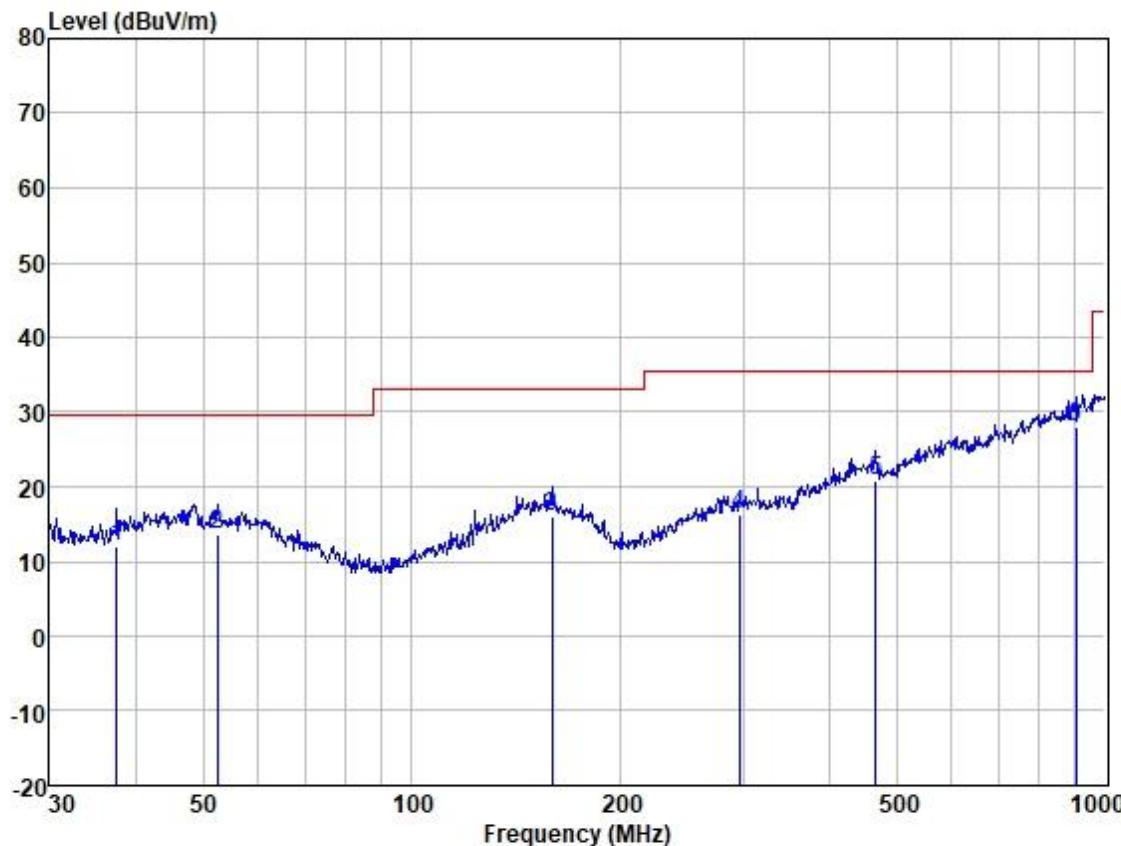
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
41.132	13.61	4.79	15.97	24.07	40.00	-15.93	H
123.266	12.82	4.38	14.58	23.28	43.52	-20.24	H
159.225	16.00	6.31	21.03	26.46	43.52	-17.06	H
404.667	18.41	8.33	27.76	28.87	46.02	-17.15	H
595.133	24.13	16.09	53.63	34.59	46.02	-11.43	H
818.834	27.71	24.29	80.98	38.17	46.02	-7.85	H
36.637	12.23	4.09	13.63	22.69	40.00	-17.31	V
52.945	13.03	4.48	14.94	23.49	40.00	-16.51	V
147.921	14.89	5.55	18.51	25.35	43.52	-18.17	V
354.183	17.32	7.35	24.48	27.78	46.02	-18.24	V
597.223	23.59	15.12	50.39	34.05	46.02	-11.97	V
771.449	28.64	27.04	90.13	39.10	46.02	-6.92	V



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Test Mode: 05; Polarity: Horizontal



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 37.548	25.30	13.31	1.07	27.62	12.06	29.54	-17.48	HORIZONTAL	QP
2 52.391	26.06	13.93	1.15	27.60	13.54	29.54	-16.00	HORIZONTAL	QP
3 159.225	27.37	13.67	2.32	27.36	16.00	33.06	-17.06	HORIZONTAL	QP
4 296.184	27.06	13.32	3.21	27.20	16.39	35.56	-19.17	HORIZONTAL	QP
5 467.235	27.67	17.21	4.30	28.46	20.72	35.56	-14.84	HORIZONTAL	QP
6 906.482	26.59	23.18	6.48	28.19	28.06	35.56	-7.50	HORIZONTAL	QP

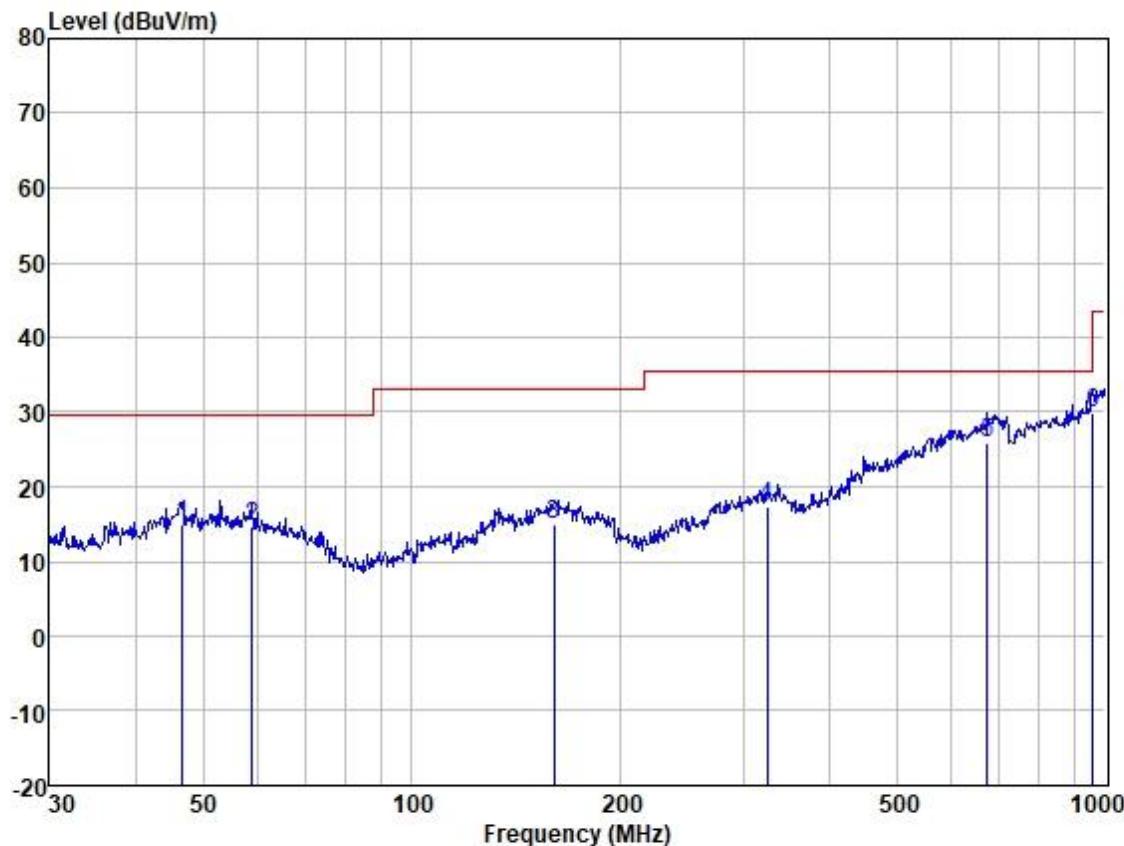
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Test Mode: 05; Polarity: Vertical



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 46.666	27.51	13.93	1.12	27.60	14.96	29.54	-14.58	VERTICAL	QP
2 58.819	27.53	13.45	1.23	27.60	14.61	29.54	-14.93	VERTICAL	QP
3 160.346	26.40	13.69	2.32	27.36	15.05	33.06	-18.01	VERTICAL	QP
4 325.596	27.25	14.17	3.38	27.35	17.45	35.56	-18.11	VERTICAL	QP
5 675.208	28.36	20.88	5.40	28.72	25.92	35.56	-9.64	VERTICAL	QP
6 958.794	26.64	24.39	6.80	28.07	29.76	35.56	-5.80	VERTICAL	QP

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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:

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
37.548	12.06	4.01	13.36	22.52	40.00	-17.48	H
52.391	13.54	4.75	15.84	24.00	40.00	-16.00	H
159.225	16.00	6.31	21.03	26.46	43.52	-17.06	H
296.184	16.39	6.60	22.00	26.85	46.02	-19.17	H
467.235	20.72	10.86	36.21	31.18	46.02	-14.84	H
906.482	28.06	25.29	84.31	38.52	46.02	-7.50	H
46.666	14.96	5.60	18.66	25.42	40.00	-14.58	V
58.819	14.61	5.38	17.92	25.07	40.00	-14.93	V
160.346	15.05	5.66	18.85	25.51	43.52	-18.01	V
325.596	17.45	7.46	24.85	27.91	46.02	-18.11	V
675.200	25.92	19.77	65.90	36.38	46.02	-9.64	V
958.794	29.76	30.76	102.54	40.22	46.02	-5.80	V

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**7.8 Radiated Spurious Emissions (Above 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 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: 24.8 °C      Humidity: 54.2 % RH      Atmospheric Pressure: 1003 mbar

**7.8.2 Test Mode Description**

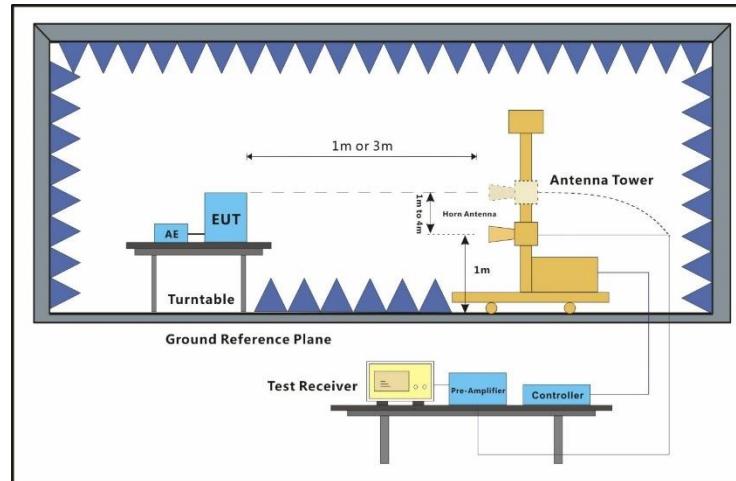
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	01	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(2Mbps)(Right earbud)_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.

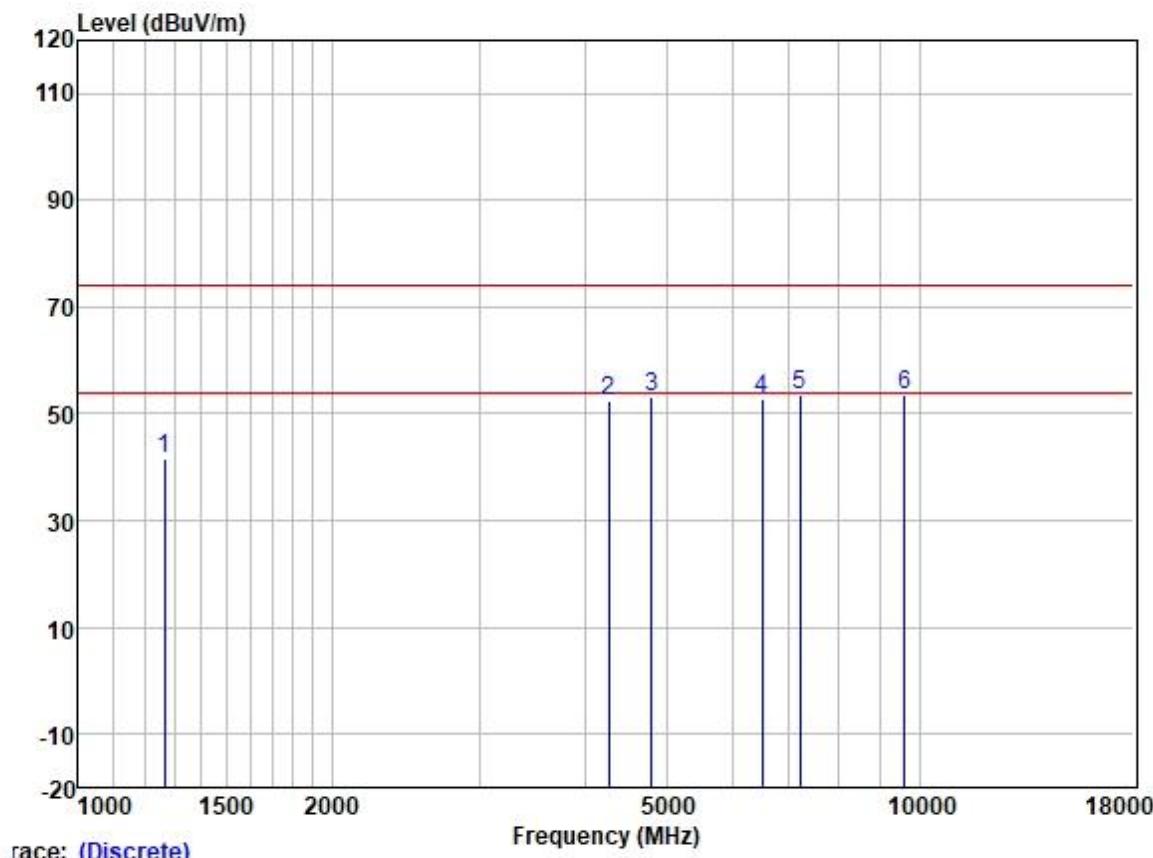
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1267.454	52.46	25.10	2.44	38.33	41.67	74.00	-32.33	HORIZONTAL	Peak	
2	4267.237	54.35	30.38	4.63	36.81	52.55	74.00	-21.45	HORIZONTAL	Peak	
3	4804.000	53.22	31.42	5.40	36.83	53.21	74.00	-20.79	HORIZONTAL	Peak	
4	6507.536	50.01	34.00	5.84	37.01	52.84	74.00	-21.16	HORIZONTAL	Peak	
5	7206.000	49.34	35.54	5.98	37.38	53.48	74.00	-20.52	HORIZONTAL	Peak	
6	9608.000	45.53	38.37	7.07	37.42	53.55	74.00	-20.45	HORIZONTAL	Peak	

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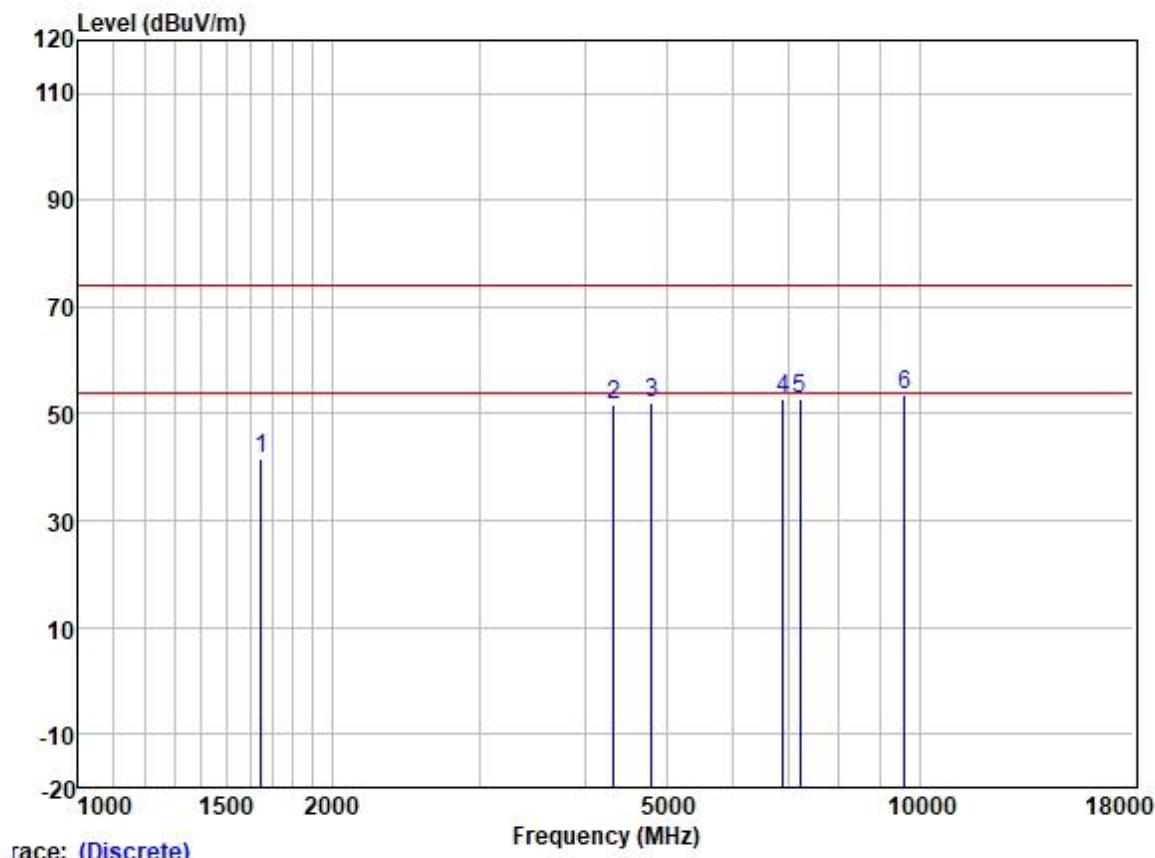
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1	1648.778	51.21	25.63	2.80	37.93	41.71	74.00	-32.29	VERTICAL	Peak			
2	4329.354	53.32	30.54	4.67	36.81	51.72	74.00	-22.28	VERTICAL	Peak			
3	4804.000	52.15	31.42	5.40	36.83	52.14	74.00	-21.86	VERTICAL	Peak			
4	6874.906	49.35	34.82	5.82	37.16	52.83	74.00	-21.17	VERTICAL	Peak			
5	7206.000	48.70	35.54	5.98	37.38	52.84	74.00	-21.16	VERTICAL	Peak			
6	9608.000	45.56	38.37	7.07	37.42	53.58	74.00	-20.42	VERTICAL	Peak			

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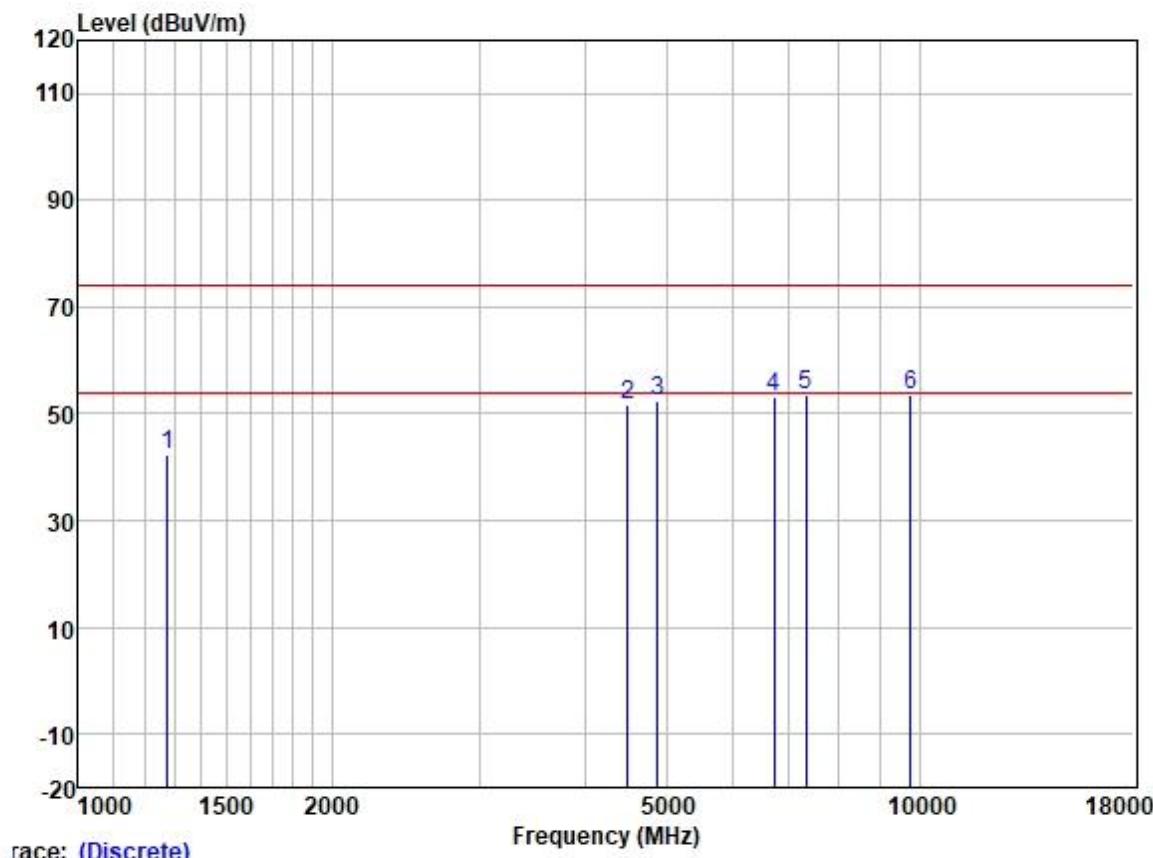
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Cable Loss Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1274.802	53.12	25.12	2.48	38.33	42.39	74.00	-31.61 HORIZONTAL Peak
2	4495.125	52.59	30.80	5.05	36.82	51.62	74.00	-22.38 HORIZONTAL Peak
3	4880.000	52.18	31.54	5.50	36.84	52.38	74.00	-21.62 HORIZONTAL Peak
4	6717.762	49.87	34.44	5.83	37.09	53.05	74.00	-20.95 HORIZONTAL Peak
5	7320.000	48.75	36.00	6.13	37.43	53.45	74.00	-20.55 HORIZONTAL Peak
6	9760.000	45.48	38.50	7.02	37.41	53.59	74.00	-20.41 HORIZONTAL Peak

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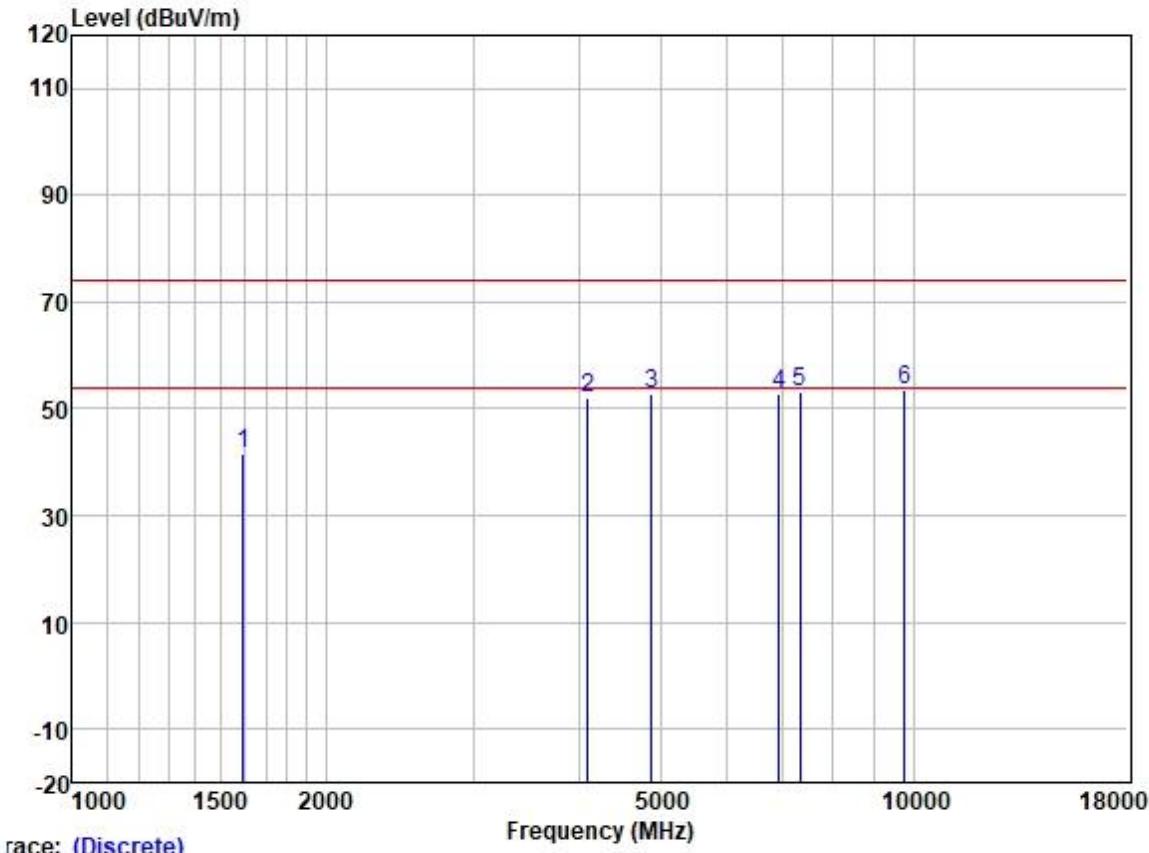
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
1	1597.181	51.05	25.58	2.80	37.98	41.45	74.00	-32.55	VERTICAL	Peak	
2	4098.010	54.25	29.94	4.60	36.80	51.99	74.00	-22.01	VERTICAL	Peak	
3	4880.000	52.62	31.54	5.50	36.84	52.82	74.00	-21.18	VERTICAL	Peak	
4	6914.763	49.37	34.89	5.81	37.19	52.88	74.00	-21.12	VERTICAL	Peak	
5	7320.000	48.33	36.00	6.13	37.43	53.03	74.00	-20.97	VERTICAL	Peak	
6	9760.000	45.32	38.50	7.02	37.41	53.43	74.00	-20.57	VERTICAL	Peak	

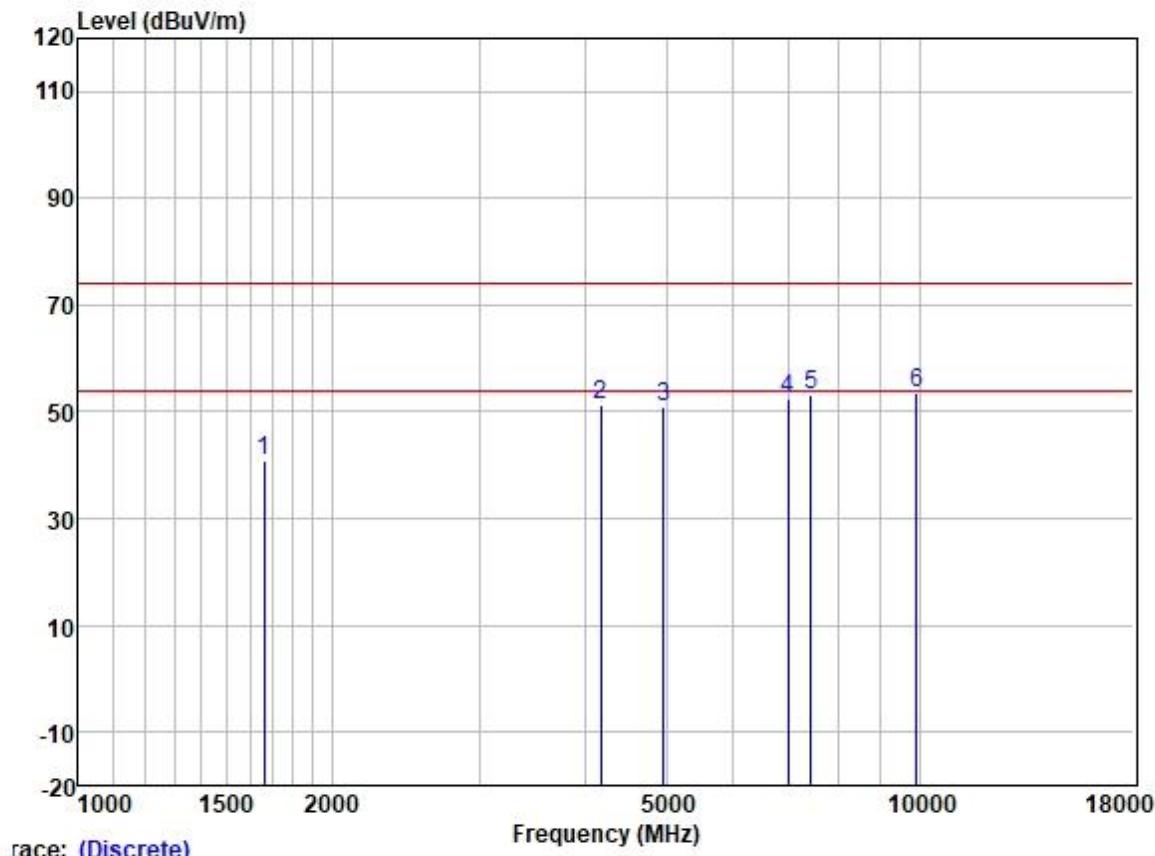
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



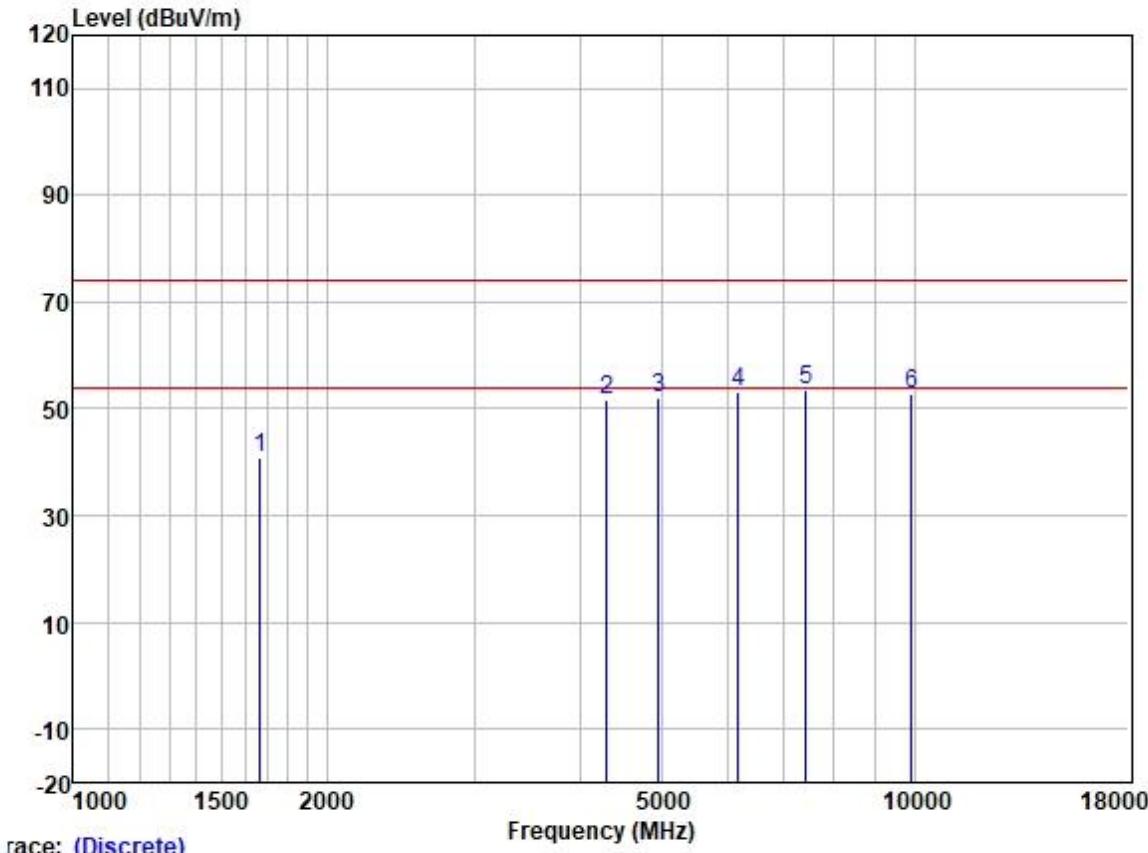
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 1663.137	50.32	25.65	2.80	37.91	40.86	74.00	-33.14	HORIZONTAL	Peak
2 4181.768	53.40	30.12	4.60	36.80	51.32	74.00	-22.68	HORIZONTAL	Peak
3 4960.000	50.51	31.65	5.65	36.84	50.97	74.00	-23.03	HORIZONTAL	Peak
4 6974.982	49.05	34.97	5.81	37.23	52.60	74.00	-21.40	HORIZONTAL	Peak
5 7440.000	48.15	36.27	6.22	37.47	53.17	74.00	-20.83	HORIZONTAL	Peak
6 9920.000	45.37	38.65	6.96	37.40	53.58	74.00	-20.42	HORIZONTAL	Peak

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



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor						
1	1667.951	50.36	25.66	2.80	37.91	40.91	74.00	-33.09	VERTICAL		Peak	
2	4304.400	53.41	30.48	4.65	36.81	51.73	74.00	-22.27	VERTICAL		Peak	
3	4960.000	51.46	31.65	5.65	36.84	51.92	74.00	-22.08	VERTICAL		Peak	
4	6177.627	51.22	32.89	6.09	36.93	53.27	74.00	-20.73	VERTICAL		Peak	
5	7440.000	48.52	36.27	6.22	37.47	53.54	74.00	-20.46	VERTICAL		Peak	
6	9920.000	44.73	38.65	6.96	37.40	52.94	74.00	-21.06	VERTICAL		Peak	

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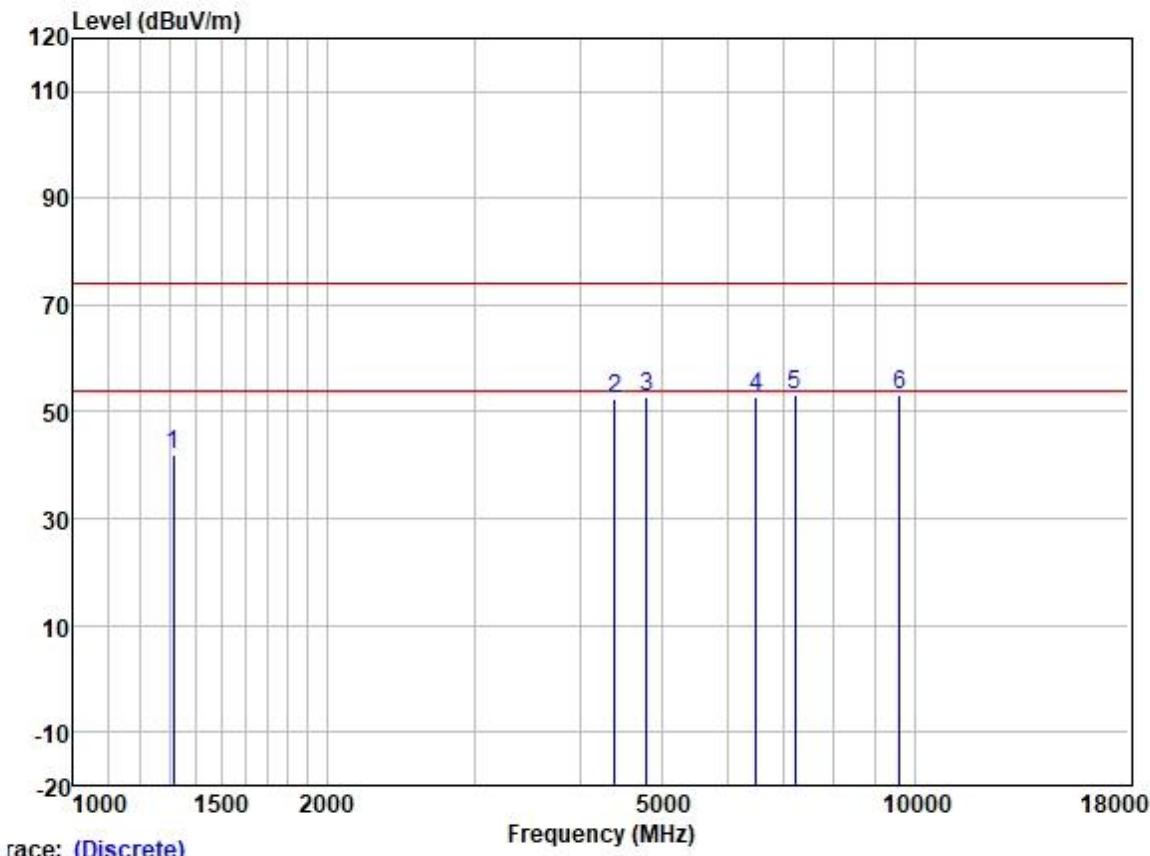
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1315.985	52.56	25.24	2.60	38.29	42.11	74.00	-31.89	HORIZONTAL	Peak	
2	4405.090	53.94	30.68	4.70	36.81	52.51	74.00	-21.49	HORIZONTAL	Peak	
3	4804.000	52.79	31.42	5.40	36.83	52.78	74.00	-21.22	HORIZONTAL	Peak	
4	6488.754	49.89	33.96	5.85	37.01	52.69	74.00	-21.31	HORIZONTAL	Peak	
5	7206.000	48.94	35.54	5.98	37.38	53.08	74.00	-20.92	HORIZONTAL	Peak	
6	9608.000	45.19	38.37	7.07	37.42	53.21	74.00	-20.79	HORIZONTAL	Peak	

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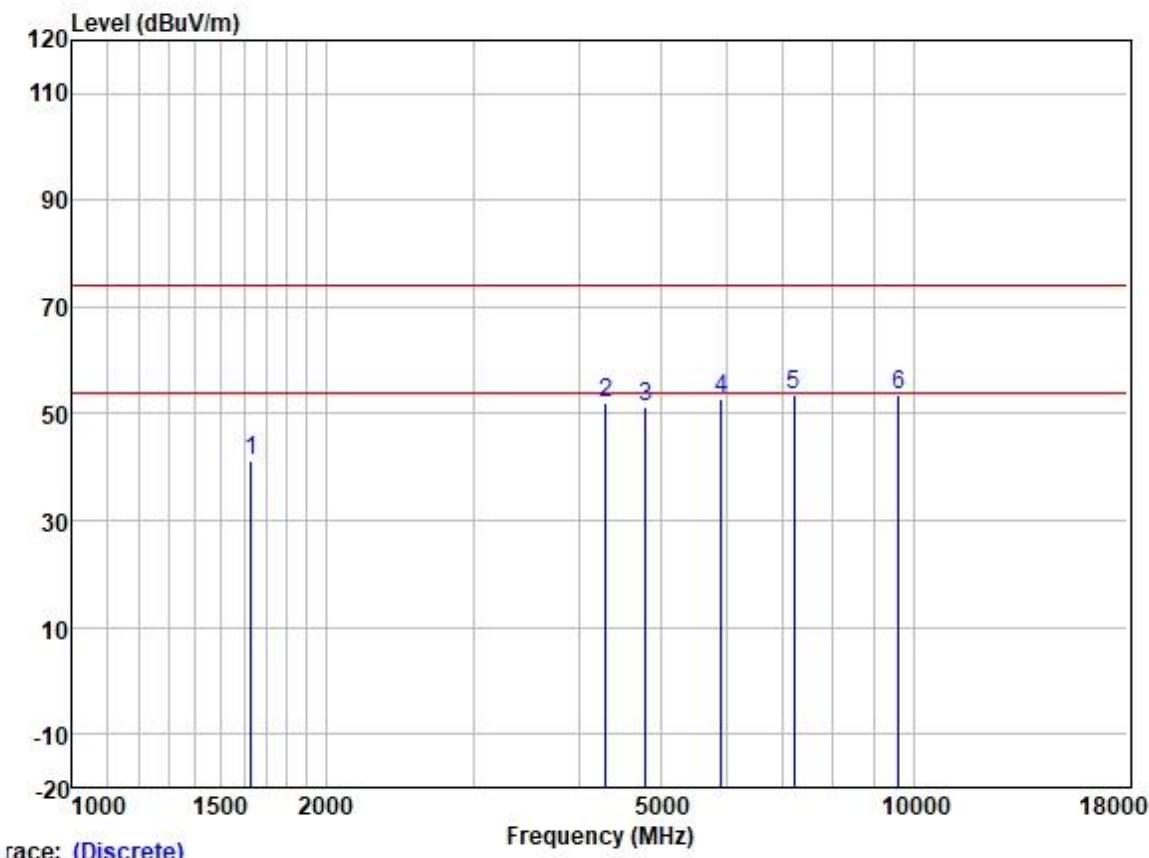
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor					
1 1629.825	50.65	25.61	2.80	37.95	41.11	74.00	-32.89	VERTICAL	Peak		
2 4304.400	53.73	30.48	4.65	36.81	52.05	74.00	-21.95	VERTICAL	Peak		
3 4804.000	51.16	31.42	5.40	36.83	51.15	74.00	-22.85	VERTICAL	Peak		
4 5915.516	51.33	32.33	5.95	36.90	52.71	74.00	-21.29	VERTICAL	Peak		
5 7206.000	49.32	35.54	5.98	37.38	53.46	74.00	-20.54	VERTICAL	Peak		
6 9608.000	45.48	38.37	7.07	37.42	53.50	74.00	-20.50	VERTICAL	Peak		

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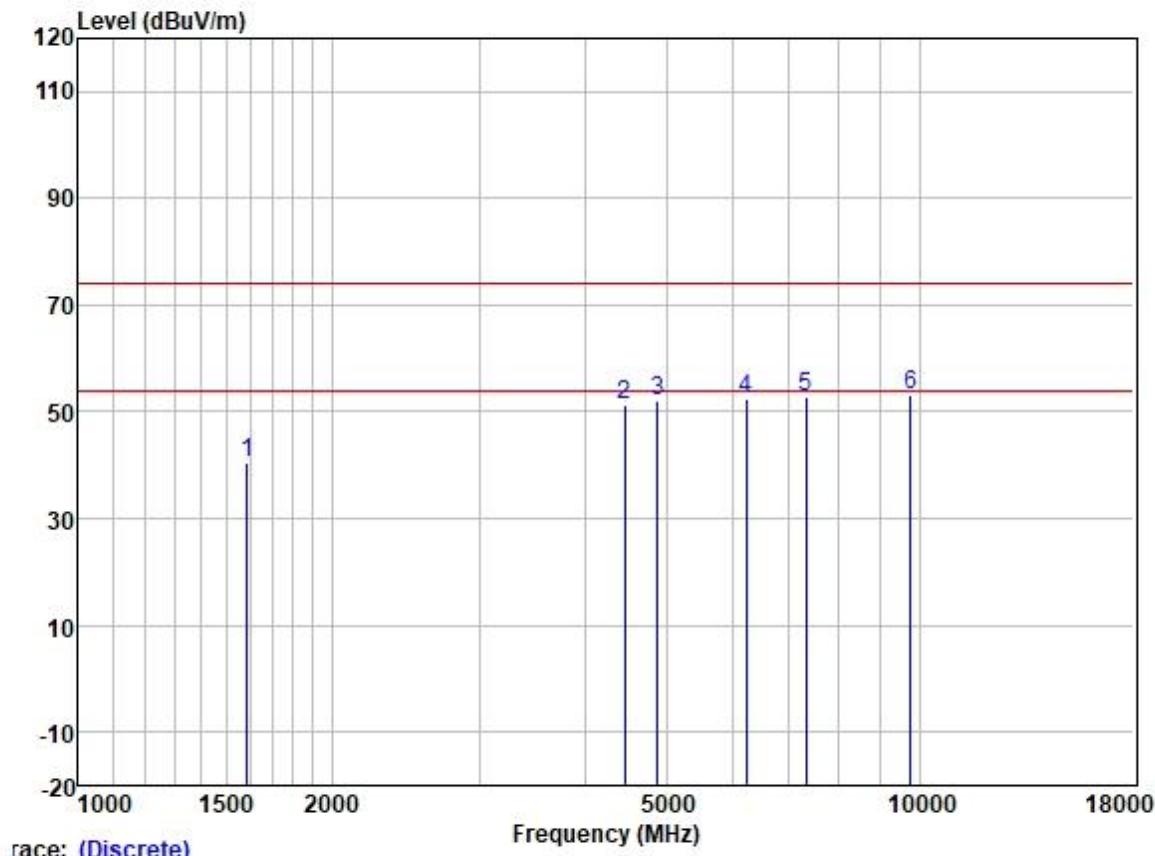
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1 1587.975	50.26	25.57	2.80	37.98	40.65	74.00	-33.35	HORIZONTAL	Peak				
2 4456.315	52.50	30.75	4.88	36.81	51.32	74.00	-22.68	HORIZONTAL	Peak				
3 4880.000	51.72	31.54	5.50	36.84	51.92	74.00	-22.08	HORIZONTAL	Peak				
4 6231.427	50.21	33.11	6.04	36.94	52.42	74.00	-21.58	HORIZONTAL	Peak				
5 7320.000	48.05	36.00	6.13	37.43	52.75	74.00	-21.25	HORIZONTAL	Peak				
6 9760.000	44.94	38.50	7.02	37.41	53.05	74.00	-20.95	HORIZONTAL	Peak				

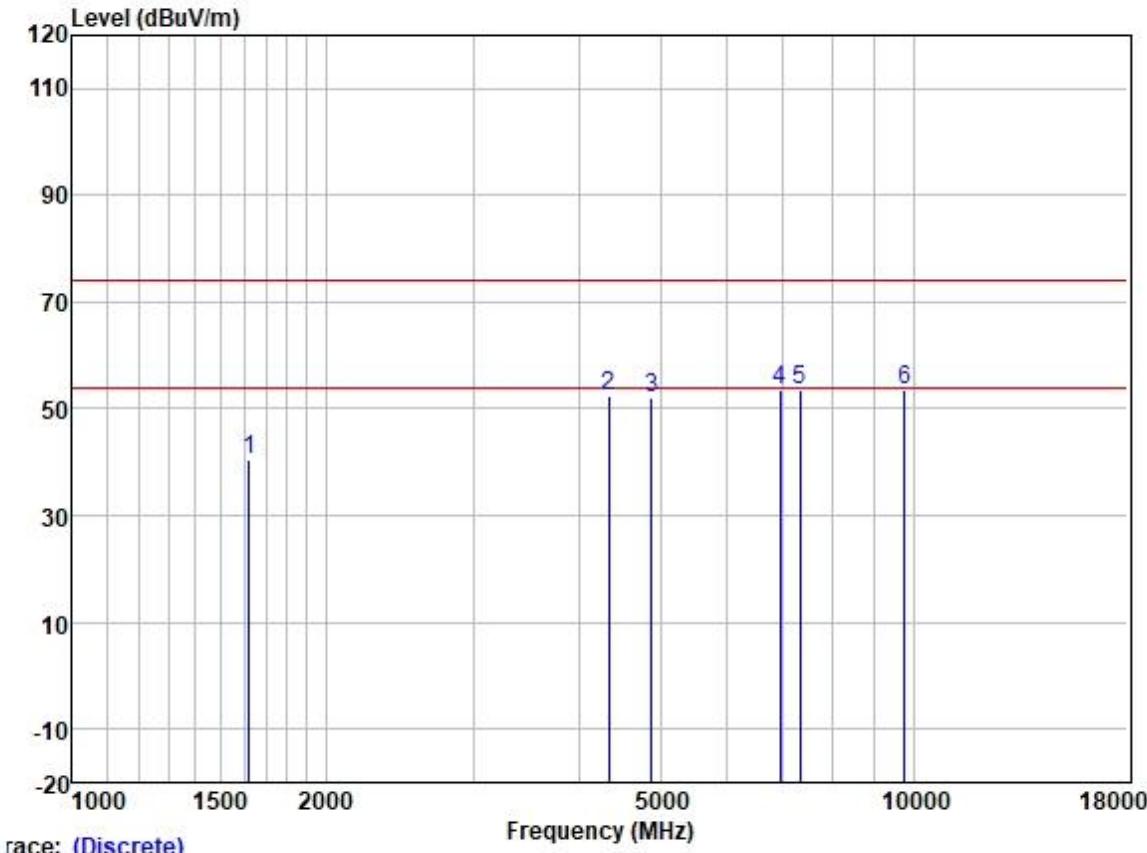
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor						
1	1620.431	50.11	25.60	2.80	37.95	40.56	74.00	-33.44	VERTICAL		Peak	
2	4341.886	53.81	30.57	4.67	36.81	52.24	74.00	-21.76	VERTICAL		Peak	
3	4880.000	51.95	31.54	5.50	36.84	52.15	74.00	-21.85	VERTICAL		Peak	
4	6934.778	49.85	34.92	5.81	37.19	53.39	74.00	-20.61	VERTICAL		Peak	
5	7320.000	48.90	36.00	6.13	37.43	53.60	74.00	-20.40	VERTICAL		Peak	
6	9760.000	45.57	38.50	7.02	37.41	53.68	74.00	-20.32	VERTICAL		Peak	

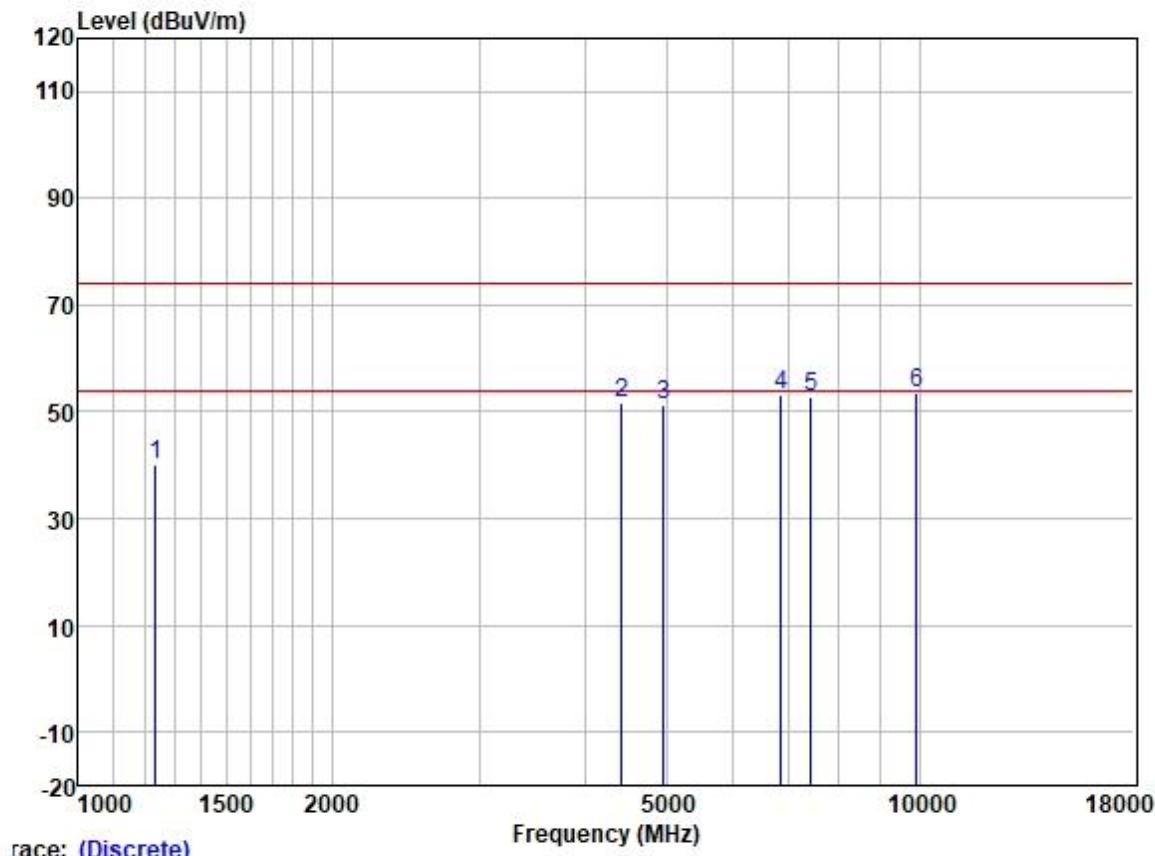
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Race: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit		Over	Limit	Pol/Phase	Remark
				Level	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 1234.909	51.38	24.93	2.30	38.37	40.24	74.00	-33.76	HORIZONTAL	Peak
2 4430.628	52.99	30.72	4.78	36.81	51.68	74.00	-22.32	HORIZONTAL	Peak
3 4960.000	50.67	31.65	5.65	36.84	51.13	74.00	-22.87	HORIZONTAL	Peak
4 6855.063	49.71	34.78	5.82	37.15	53.16	74.00	-20.84	HORIZONTAL	Peak
5 7440.000	47.93	36.27	6.22	37.47	52.95	74.00	-21.05	HORIZONTAL	Peak
6 9920.000	45.24	38.65	6.96	37.40	53.45	74.00	-20.55	HORIZONTAL	Peak

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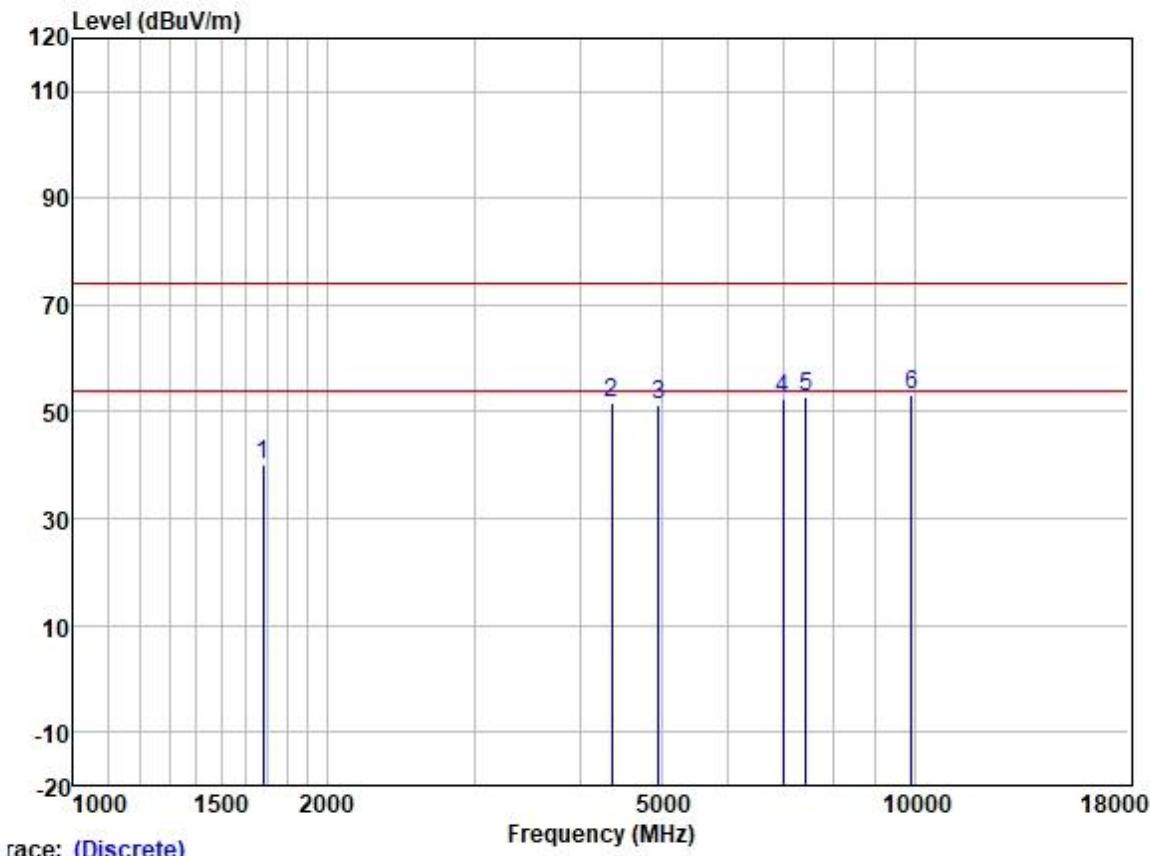
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB				
1	1682.477	49.55	25.68	2.80	37.91	40.12	74.00	-33.88 VERTICAL Peak
2	4367.058	53.28	30.62	4.68	36.81	51.77	74.00	-22.23 VERTICAL Peak
3	4960.000	50.72	31.65	5.65	36.84	51.18	74.00	-22.82 VERTICAL Peak
4	6974.982	48.81	34.97	5.81	37.23	52.36	74.00	-21.64 VERTICAL Peak
5	7440.000	47.83	36.27	6.22	37.47	52.85	74.00	-21.15 VERTICAL Peak
6	9920.000	44.89	38.65	6.96	37.40	53.10	74.00	-20.90 VERTICAL Peak

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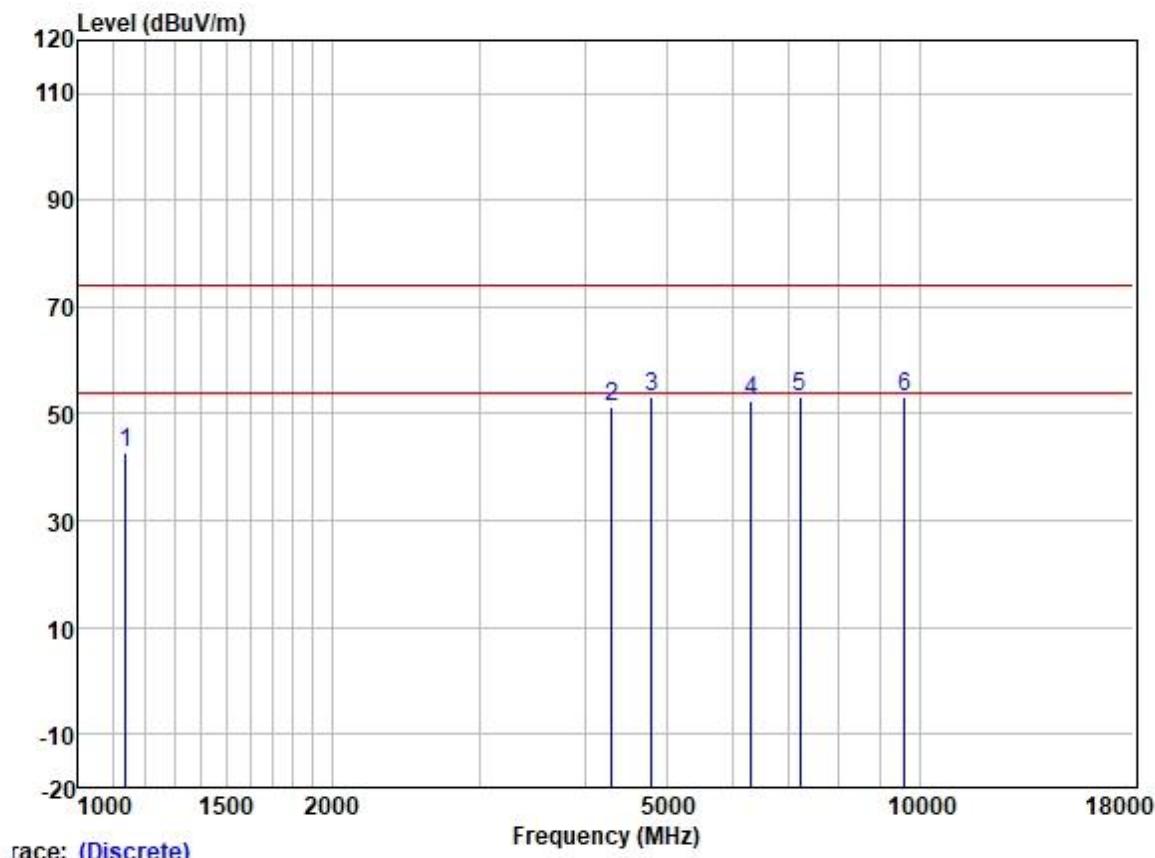
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 1138.904	54.26	24.46	2.27	38.42	42.57	74.00	-31.43	HORIZONTAL	Peak		
2 4304.400	53.04	30.48	4.65	36.81	51.36	74.00	-22.64	HORIZONTAL	Peak		
3 4804.000	53.13	31.42	5.40	36.83	53.12	74.00	-20.88	HORIZONTAL	Peak		
4 6303.890	49.96	33.44	5.97	36.96	52.41	74.00	-21.59	HORIZONTAL	Peak		
5 7206.000	48.96	35.54	5.98	37.38	53.10	74.00	-20.90	HORIZONTAL	Peak		
6 9608.000	45.20	38.37	7.07	37.42	53.22	74.00	-20.78	HORIZONTAL	Peak		

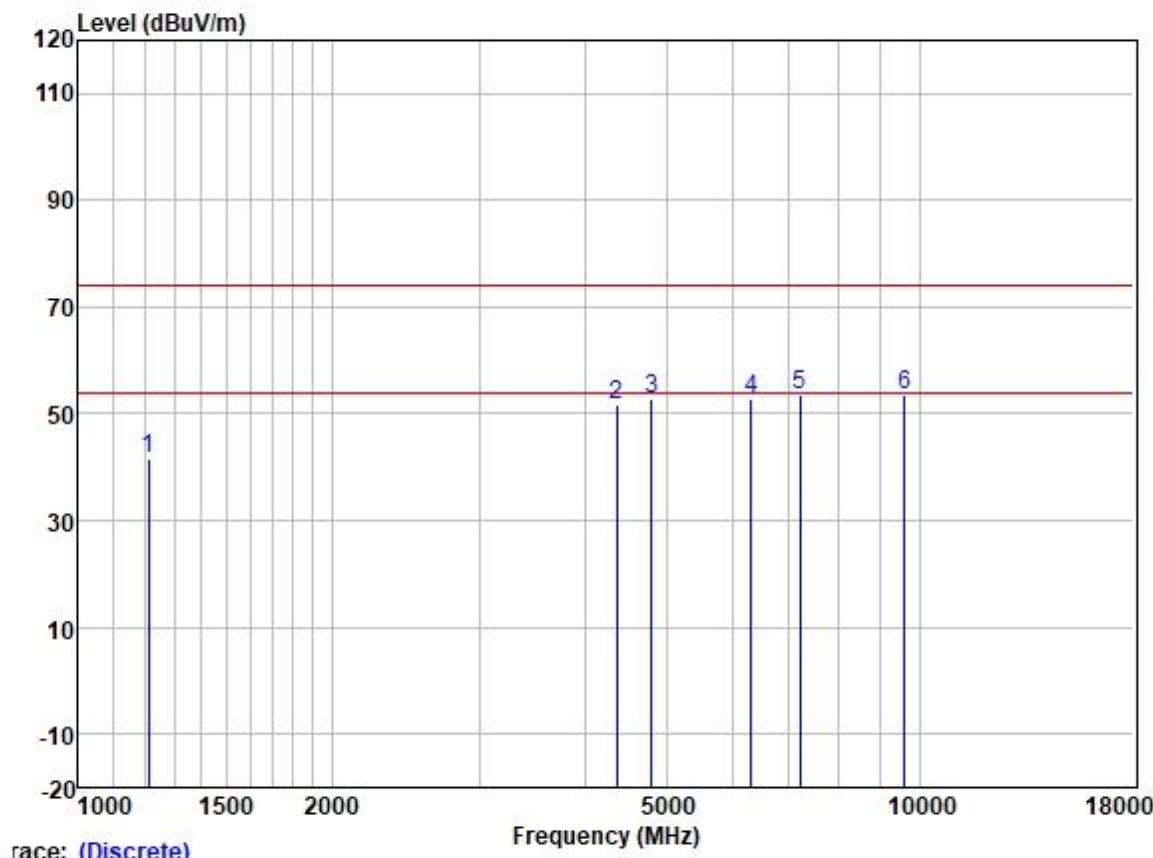
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB									
1	1210.174	52.75	24.74	2.33	38.39	41.43	74.00	-32.57	VERTICAL			Peak	
2	4367.058	53.09	30.62	4.68	36.81	51.58	74.00	-22.42	VERTICAL			Peak	
3	4804.000	52.85	31.42	5.40	36.83	52.84	74.00	-21.16	VERTICAL			Peak	
4	6303.890	50.33	33.44	5.97	36.96	52.78	74.00	-21.22	VERTICAL			Peak	
5	7206.000	49.22	35.54	5.98	37.38	53.36	74.00	-20.64	VERTICAL			Peak	
6	9608.000	45.66	38.37	7.07	37.42	53.68	74.00	-20.32	VERTICAL			Peak	

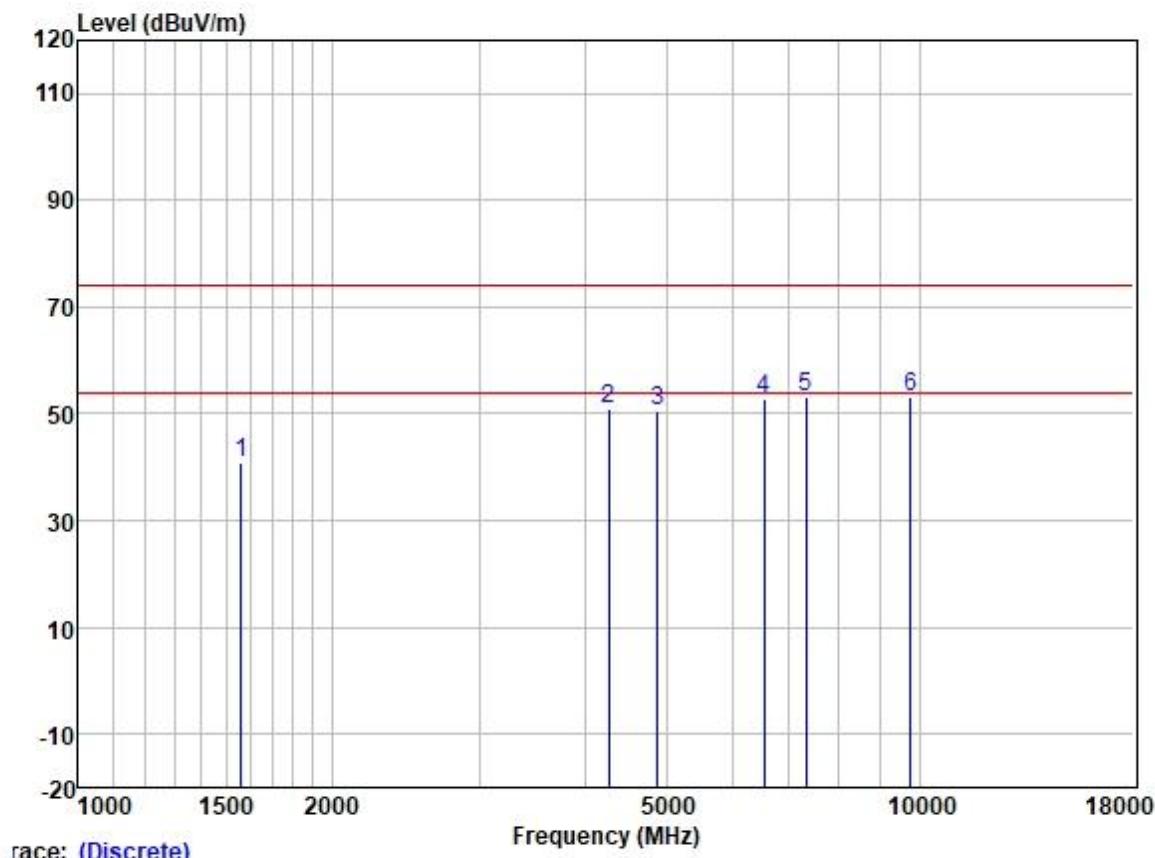
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB				
1	1560.673	50.44	25.54	2.80	38.03	40.75	74.00	-33.25 HORIZONTAL Peak
2	4267.237	52.85	30.38	4.63	36.81	51.05	74.00	-22.95 HORIZONTAL Peak
3	4880.000	50.31	31.54	5.50	36.84	50.51	74.00	-23.49 HORIZONTAL Peak
4	6545.263	49.79	34.06	5.84	37.03	52.66	74.00	-21.34 HORIZONTAL Peak
5	7320.000	48.48	36.00	6.13	37.43	53.18	74.00	-20.82 HORIZONTAL Peak
6	9760.000	44.91	38.50	7.02	37.41	53.02	74.00	-20.98 HORIZONTAL Peak

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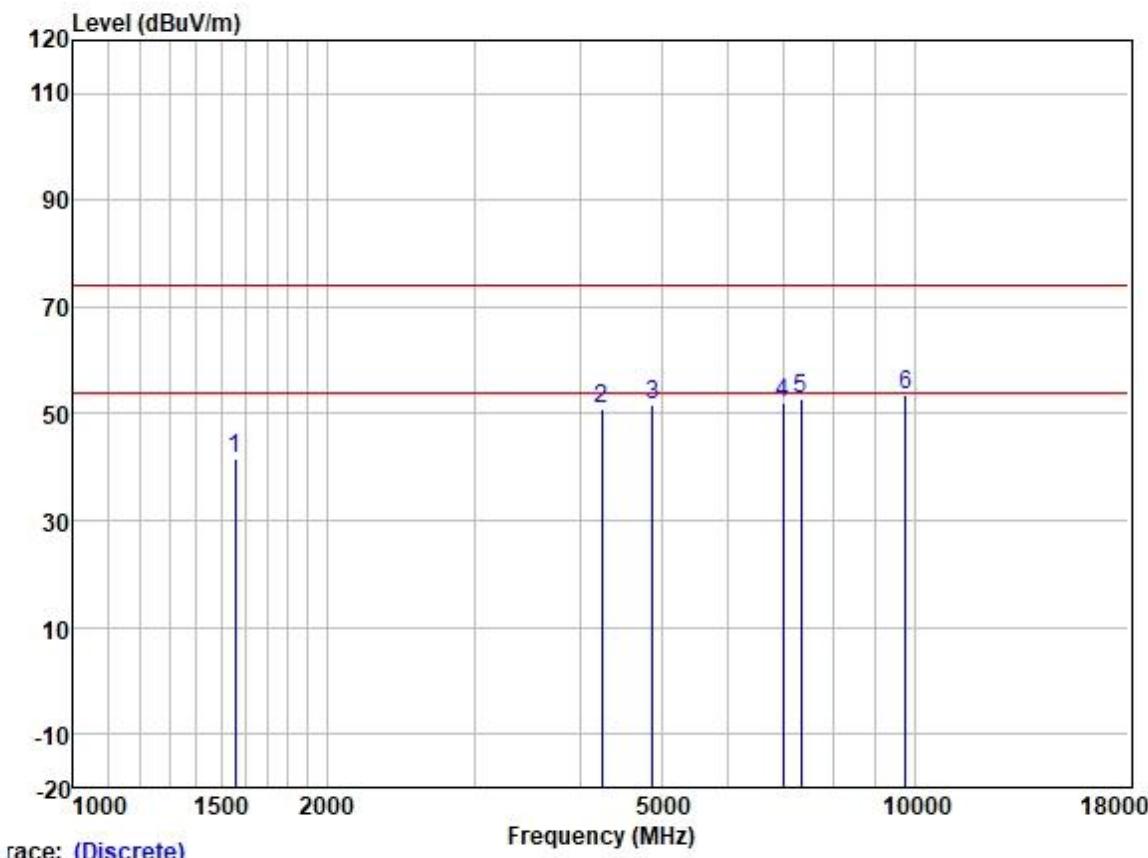
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



Mode: (Discrete)

Line	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Over	Line	Limit	Pol/Phase	Remark
		MHz	dBuV	Level	Factor				dB	dBuV/m	dBuV/m				
1	1556.169	51.17	25.54	2.80	38.03	41.48	74.00	-32.52	VERTICAL			Peak			
2	4242.641	52.79	30.30	4.62	36.81	50.90	74.00	-23.10	VERTICAL			Peak			
3	4880.000	51.31	31.54	5.50	36.84	51.51	74.00	-22.49	VERTICAL			Peak			
4	6974.982	48.52	34.97	5.81	37.23	52.07	74.00	-21.93	VERTICAL			Peak			
5	7320.000	48.27	36.00	6.13	37.43	52.97	74.00	-21.03	VERTICAL			Peak			
6	9760.000	45.35	38.50	7.02	37.41	53.46	74.00	-20.54	VERTICAL			Peak			

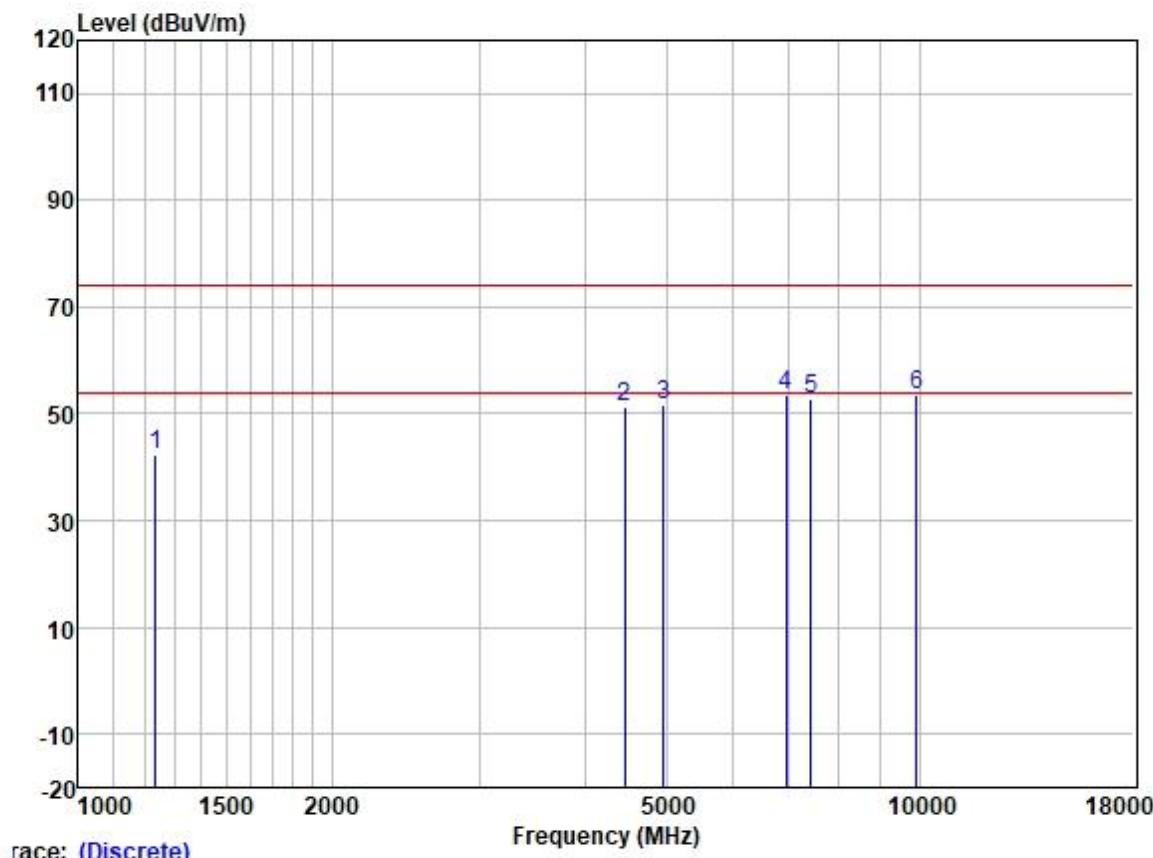
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Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB				
1	1234.909	53.48	24.93	2.30	38.37	42.34	74.00	-31.66 HORIZONTAL Peak
2	4456.315	52.57	30.75	4.88	36.81	51.39	74.00	-22.61 HORIZONTAL Peak
3	4960.000	51.29	31.65	5.65	36.84	51.75	74.00	-22.25 HORIZONTAL Peak
4	6934.778	49.98	34.92	5.81	37.19	53.52	74.00	-20.48 HORIZONTAL Peak
5	7440.000	47.90	36.27	6.22	37.47	52.92	74.00	-21.08 HORIZONTAL Peak
6	9920.000	45.47	38.65	6.96	37.40	53.68	74.00	-20.32 HORIZONTAL Peak

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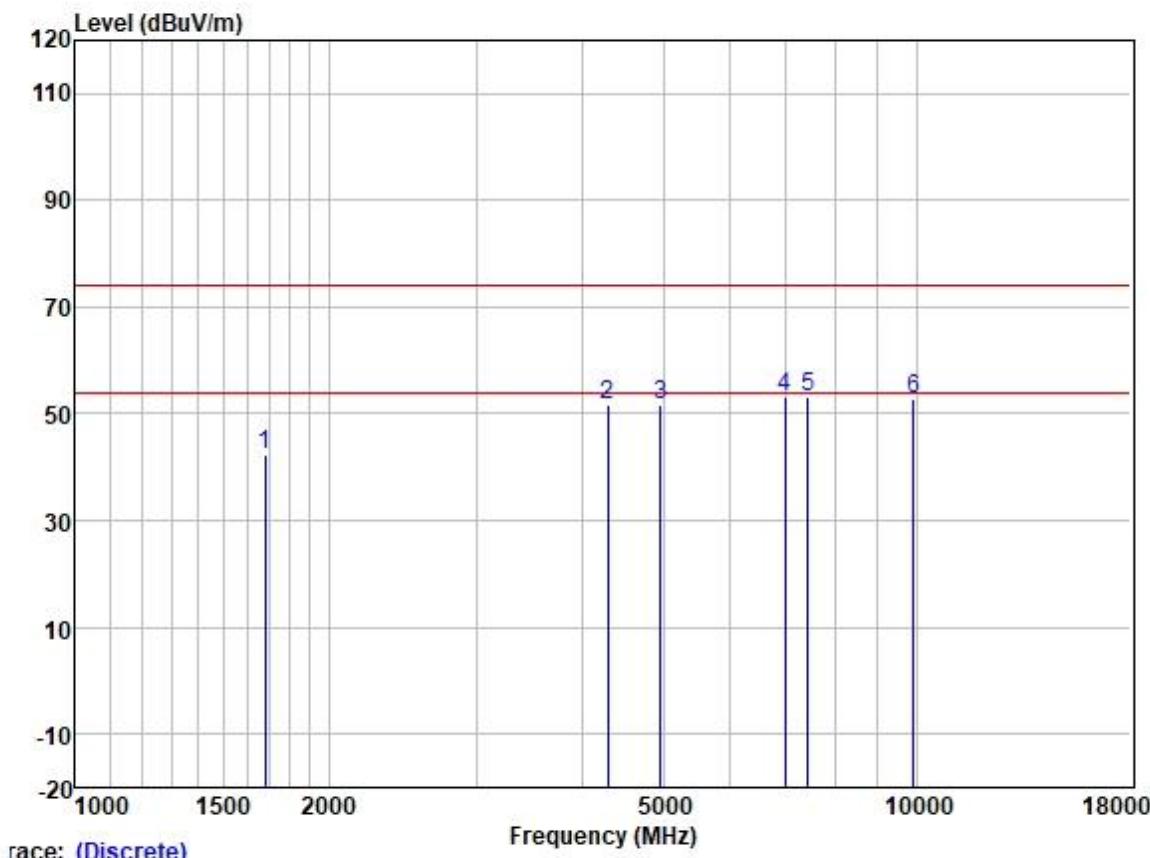


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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1682.477	51.89	25.68	2.80	37.91	42.46	74.00	-31.54	VERTICAL	Peak	
2	4291.977	53.27	30.45	4.64	36.81	51.55	74.00	-22.45	VERTICAL	Peak	
3	4960.000	51.10	31.65	5.65	36.84	51.56	74.00	-22.44	VERTICAL	Peak	
4	6974.982	49.65	34.97	5.81	37.23	53.20	74.00	-20.80	VERTICAL	Peak	
5	7440.000	48.31	36.27	6.22	37.47	53.33	74.00	-20.67	VERTICAL	Peak	
6	9920.000	44.76	38.65	6.96	37.40	52.97	74.00	-21.03	VERTICAL	Peak	

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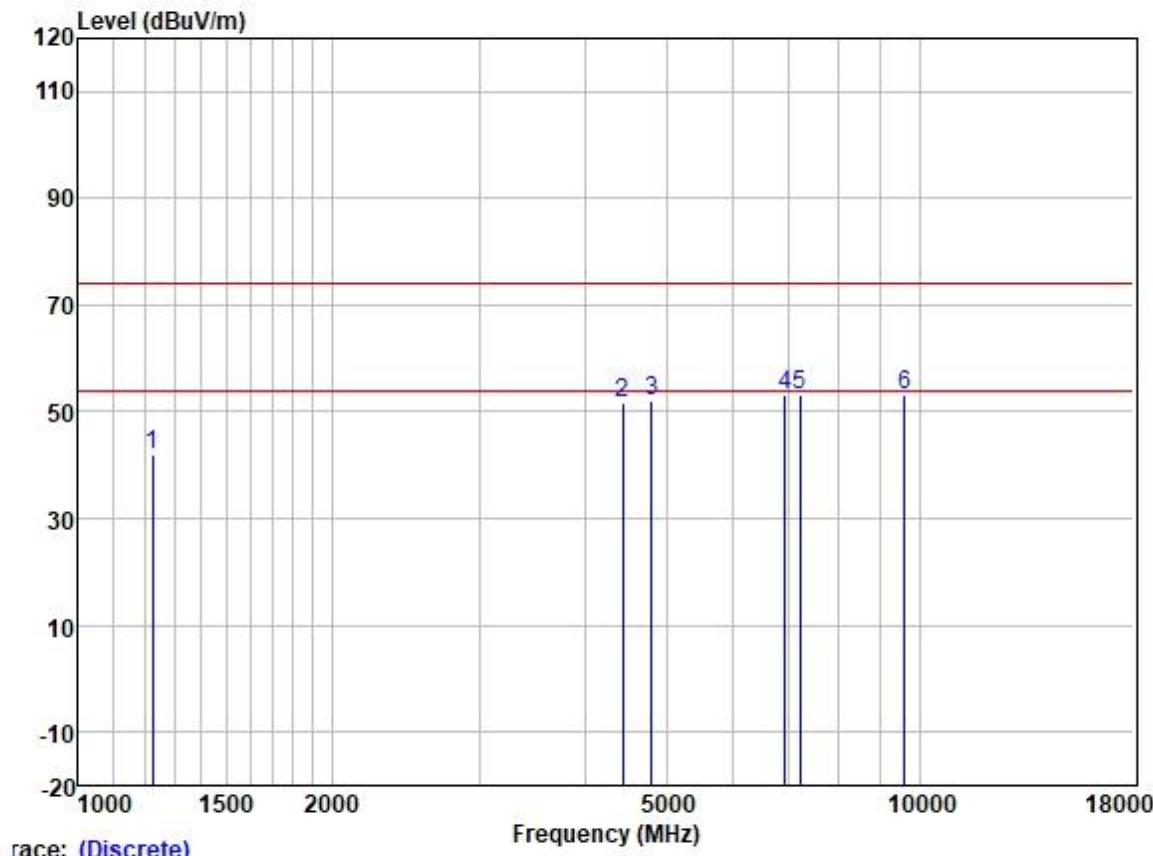


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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	1224.247	53.27	24.85	2.31	38.37	42.06	74.00	-31.94	HORIZONTAL	Peak			
2	4443.453	53.05	30.73	4.83	36.81	51.80	74.00	-22.20	HORIZONTAL	Peak			
3	4804.000	51.94	31.42	5.40	36.83	51.93	74.00	-22.07	HORIZONTAL	Peak			
4	6914.763	49.56	34.89	5.81	37.19	53.07	74.00	-20.93	HORIZONTAL	Peak			
5	7206.000	49.21	35.54	5.98	37.38	53.35	74.00	-20.65	HORIZONTAL	Peak			
6	9608.000	45.33	38.37	7.07	37.42	53.35	74.00	-20.65	HORIZONTAL	Peak			

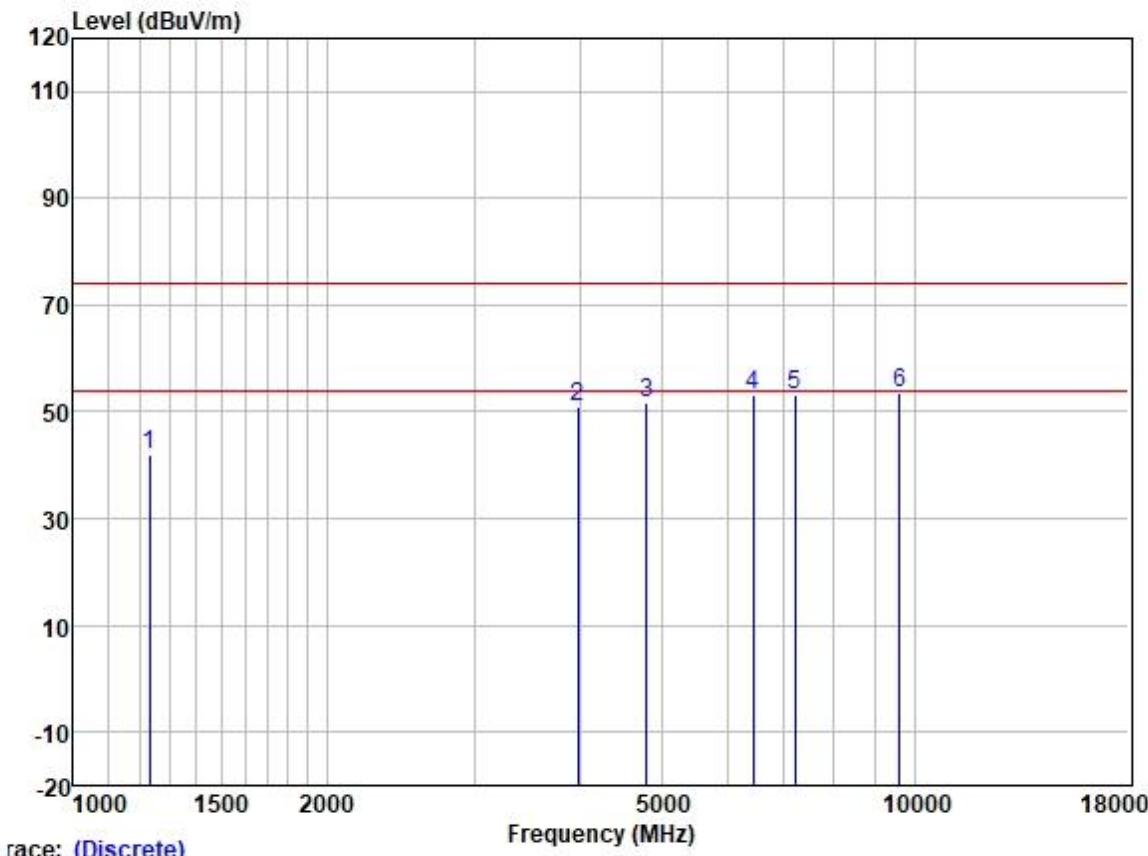
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1 1231.345	53.10	24.91	2.31	38.37	41.95	74.00	-32.05	VERTICAL				Peak	
2 3981.257	53.52	29.78	4.60	36.81	51.09	74.00	-22.91	VERTICAL				Peak	
3 4804.000	51.81	31.42	5.40	36.83	51.80	74.00	-22.20	VERTICAL				Peak	
4 6432.732	50.47	33.83	5.88	36.99	53.19	74.00	-20.81	VERTICAL				Peak	
5 7206.000	49.09	35.54	5.98	37.38	53.23	74.00	-20.77	VERTICAL				Peak	
6 9608.000	45.70	38.37	7.07	37.42	53.72	74.00	-20.28	VERTICAL				Peak	

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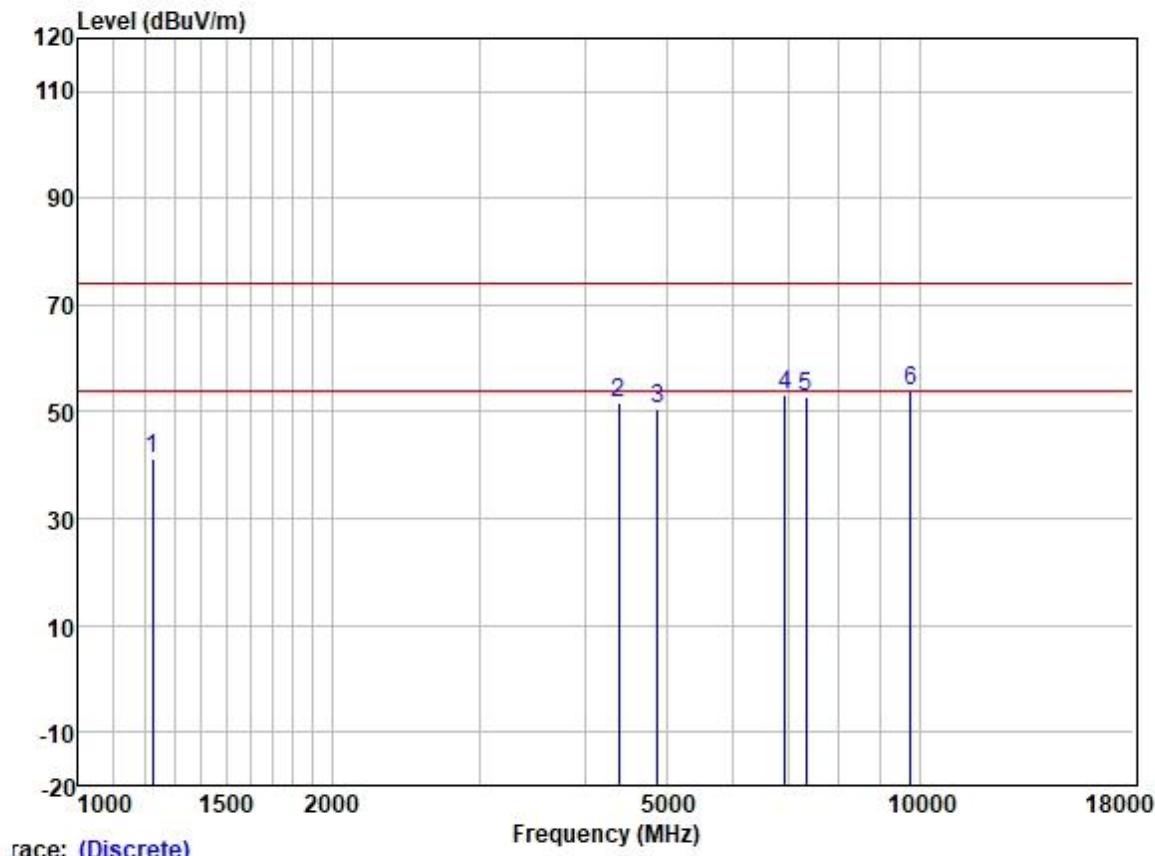
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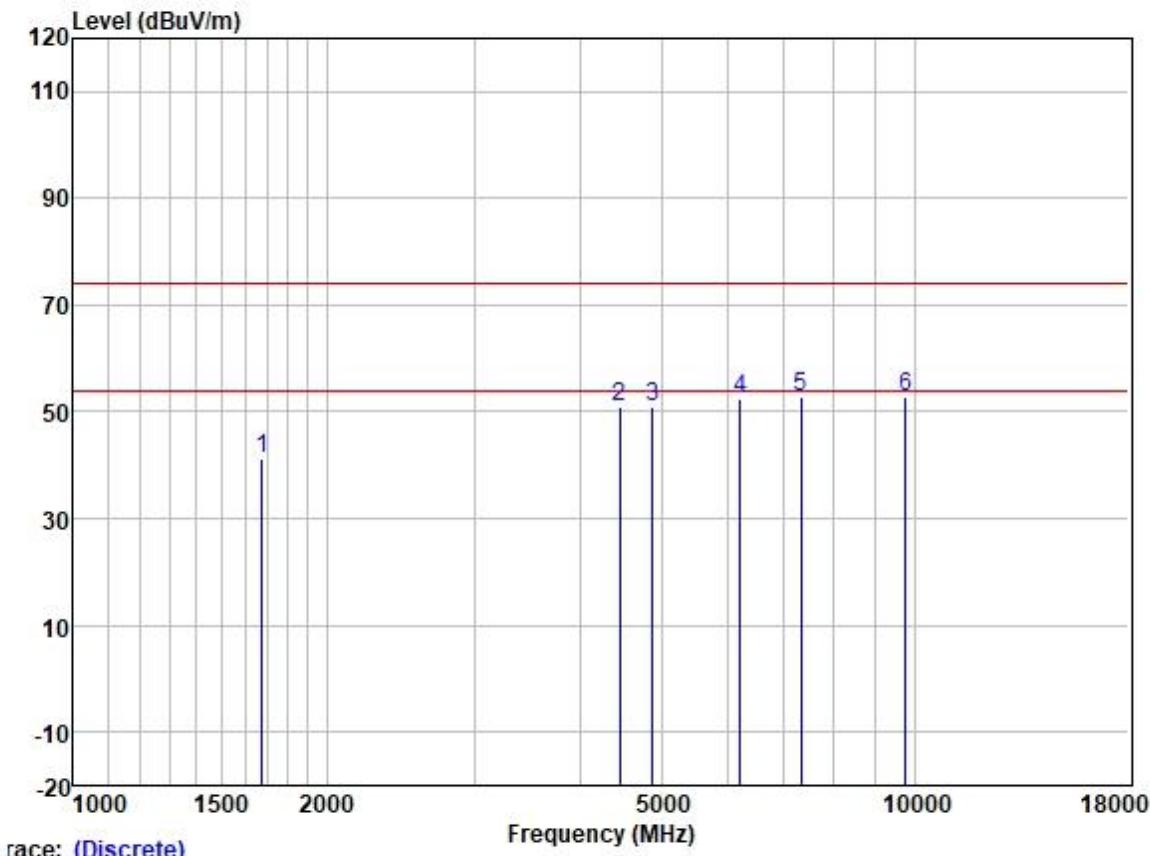
Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1	1677.621	50.60	25.68	2.80	37.91	41.17	74.00	-32.83	VERTICAL			Peak	
2	4456.315	52.19	30.75	4.88	36.81	51.01	74.00	-22.99	VERTICAL			Peak	
3	4880.000	50.84	31.54	5.50	36.84	51.04	74.00	-22.96	VERTICAL			Peak	
4	6213.441	50.42	33.03	6.06	36.94	52.57	74.00	-21.43	VERTICAL			Peak	
5	7320.000	48.18	36.00	6.13	37.43	52.88	74.00	-21.12	VERTICAL			Peak	
6	9760.000	44.70	38.50	7.02	37.41	52.81	74.00	-21.19	VERTICAL			Peak	

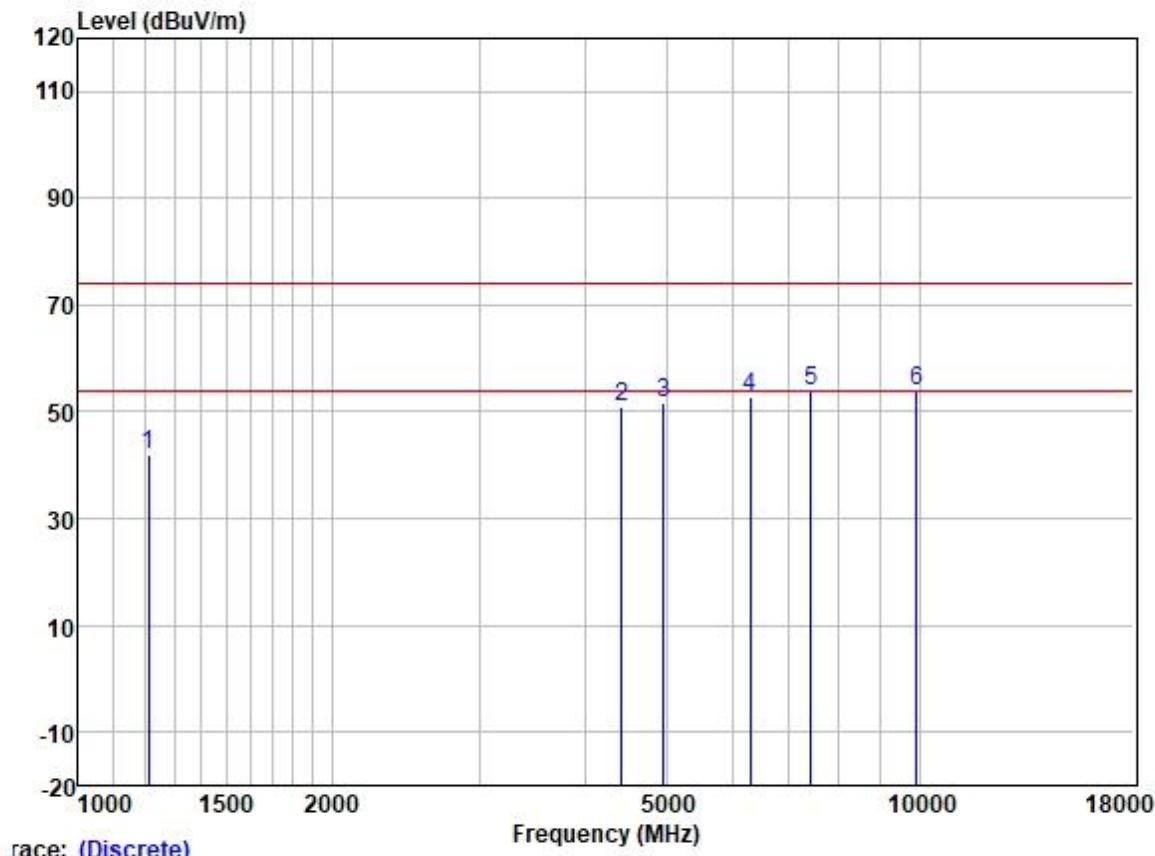
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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	1210.174	53.33	24.74	2.33	38.39	42.01	74.00	-31.99	HORIZONTAL	Peak			
2	4430.628	52.40	30.72	4.78	36.81	51.09	74.00	-22.91	HORIZONTAL	Peak			
3	4960.000	51.31	31.65	5.65	36.84	51.77	74.00	-22.23	HORIZONTAL	Peak			
4	6285.695	50.29	33.37	5.98	36.95	52.69	74.00	-21.31	HORIZONTAL	Peak			
5	7440.000	48.76	36.27	6.22	37.47	53.78	74.00	-20.22	HORIZONTAL	Peak			
6	9920.000	45.55	38.65	6.96	37.40	53.76	74.00	-20.24	HORIZONTAL	Peak			

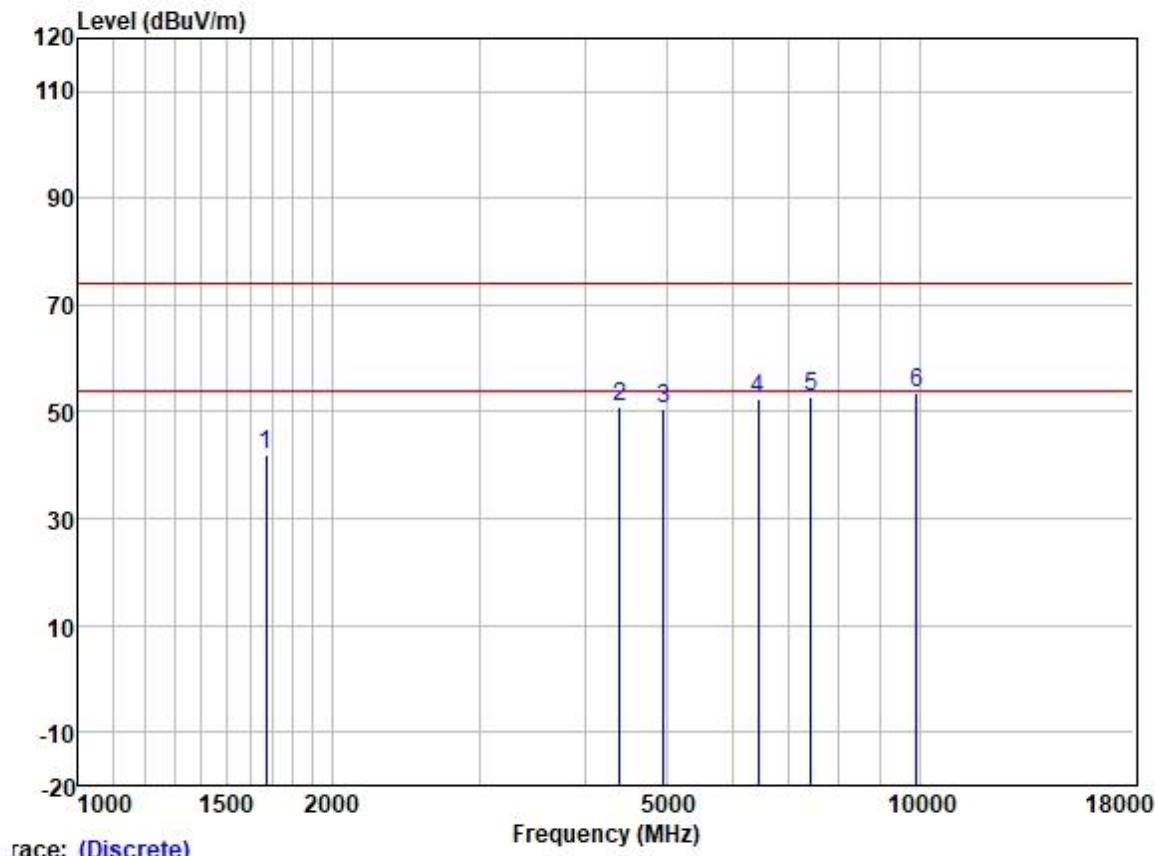
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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1	1672.779	51.36	25.67	2.80	37.91	41.92	74.00	-32.08	VERTICAL			Peak	
2	4405.090	52.45	30.68	4.70	36.81	51.02	74.00	-22.98	VERTICAL			Peak	
3	4960.000	50.09	31.65	5.65	36.84	50.55	74.00	-23.45	VERTICAL			Peak	
4	6432.732	49.81	33.83	5.88	36.99	52.53	74.00	-21.47	VERTICAL			Peak	
5	7440.000	47.82	36.27	6.22	37.47	52.84	74.00	-21.16	VERTICAL			Peak	
6	9920.000	45.46	38.65	6.96	37.40	53.67	74.00	-20.33	VERTICAL			Peak	

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## 7.9 Duty Cycle

Test Requirement KDB 558074 D01 v05r02 section 6  
Test Method: ANSI C63.10 (2013) Section 11.6

### 7.9.1 E.U.T. Operation

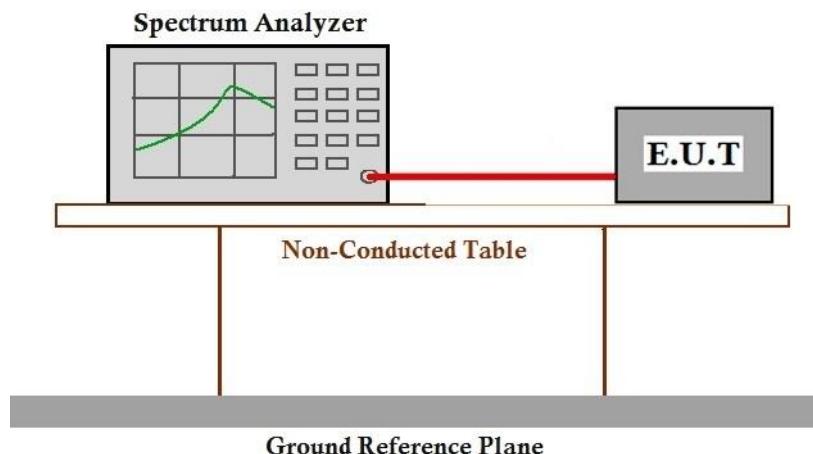
Operating Environment:

Temperature: 24.8 °C      Humidity: 54.8 % RH      Atmospheric Pressure: 1003 mbar

### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	01	TX mode(2Mbps)(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	04	TX mode(1Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	05	TX mode(2Mbps)(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation

### 7.9.3 Test Setup Diagram



### 7.9.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details

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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2211001513AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2211001513AT



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## 10 Appendix

For right earbud:

### 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	0.390	0.625	62.40	2.05	0.03
		2440	0.390	0.625	62.40	2.05	0.00
		2480	0.390	0.625	62.40	2.05	0.04
2M	SISO	2402	0.207	0.625	33.12	4.80	0.00
		2440	0.206	0.625	32.96	4.82	0.02
		2480	0.207	0.625	33.12	4.80	0.03



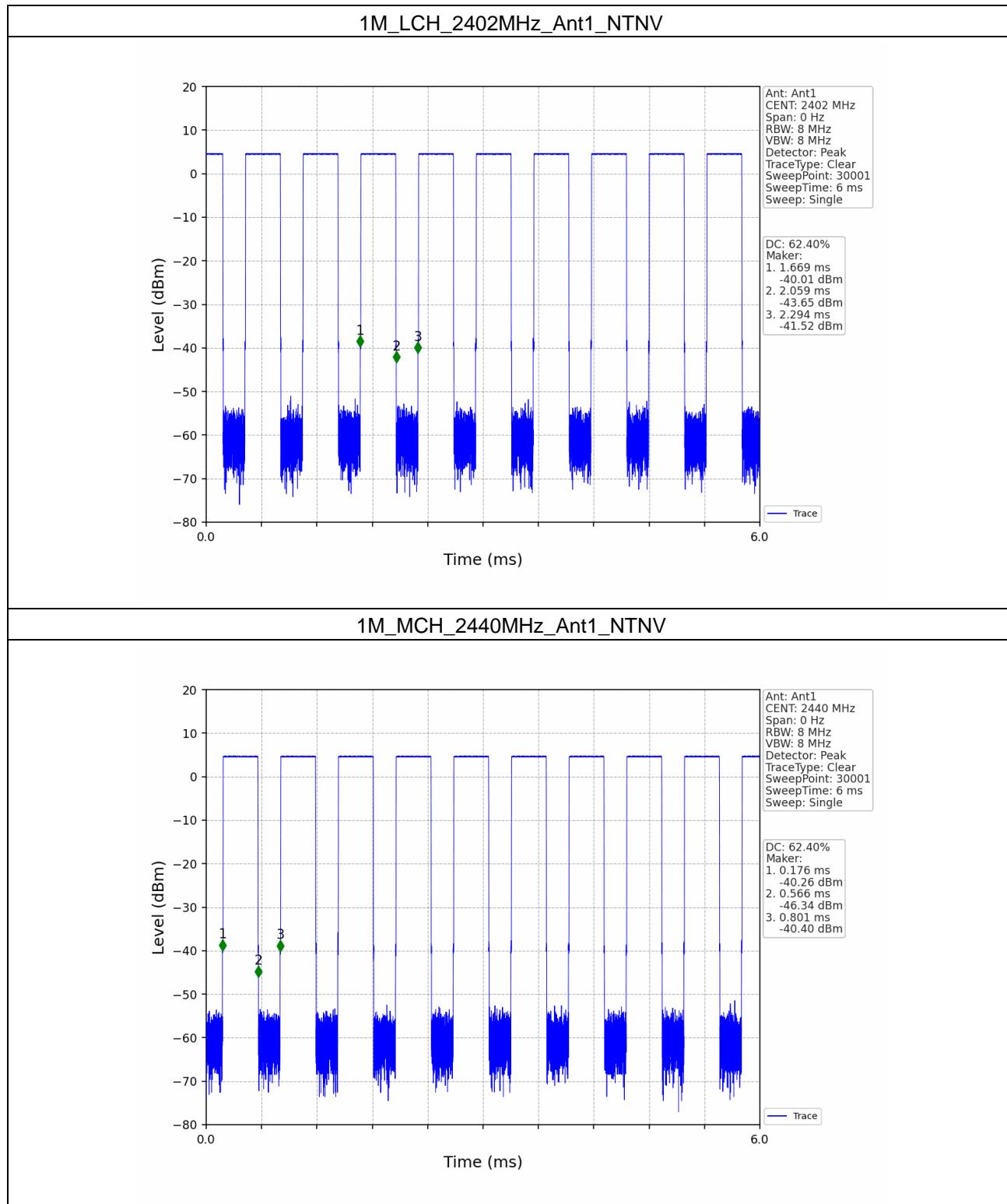
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## 1.1.2 Test Graph



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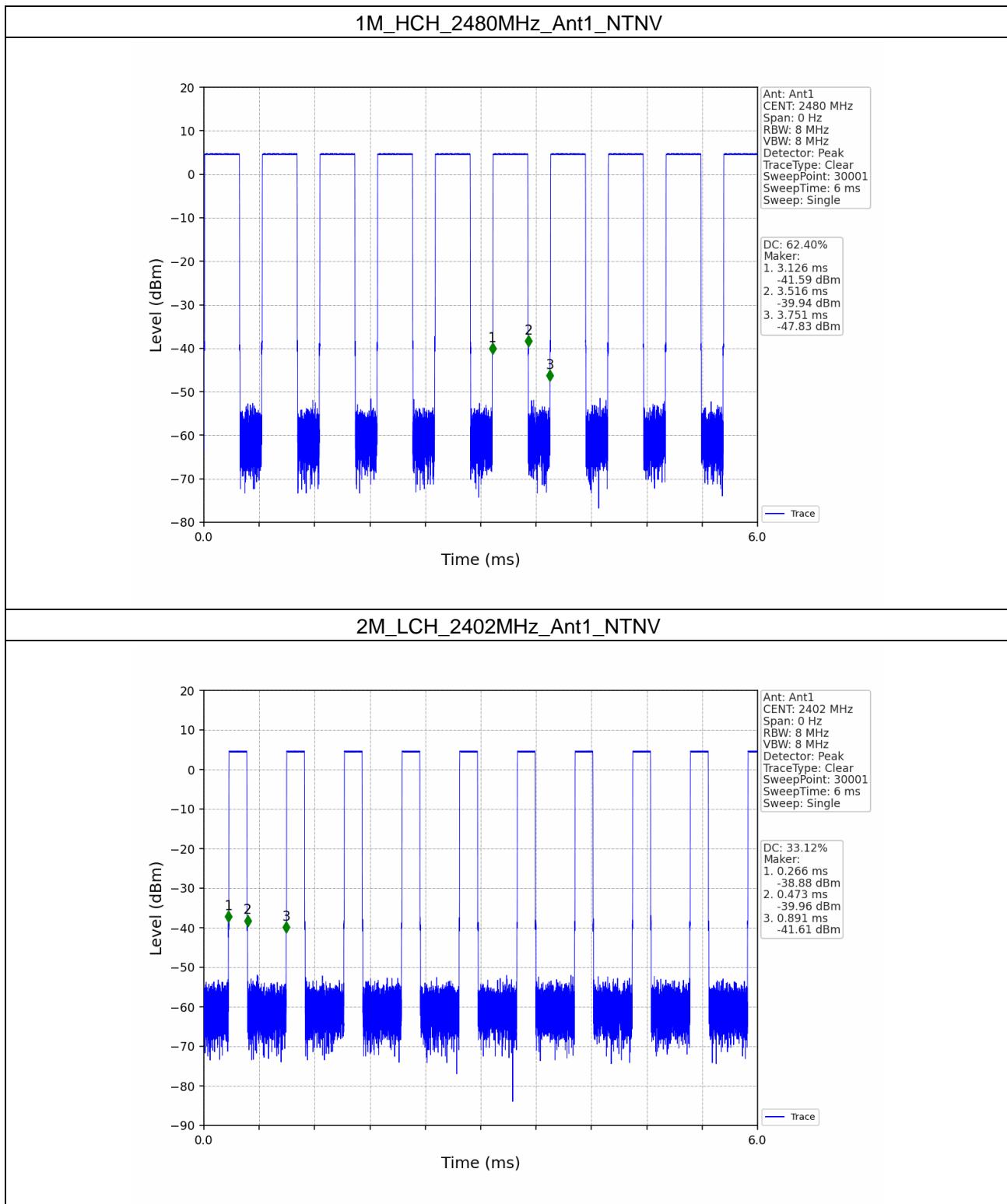
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