

TEST REPORT

Application No.:	GZCR2411001372HS
Applicant:	R. J. Reynolds Vapor Company
Address of Applicant:	P.O Box 906 401 N. Main St Winston-Salem, NC 27102, USA
Manufacturer:	R. J. Reynolds Vapor Company
Address of Manufacturer:	P.O Box 906 401 N. Main St Winston-Salem, NC 27102, USA
Factory:	1. Shenzhen Smoore Technology Limited Zixing Branch 2. Shenzhen Smoore Technology Limited Songgang Branch
Address of Factory:	1. No.6 songgang Avenue, Tantou Community, Songgang Steet, Bao'an District, Shenzhen, Guangdong Province, China 2. No.2 South Second Road of Datianyang, Dongfang Community, Songgang Street, Bao'an District, Shenzhen City, Guangdong Province, China
Product Name:	Vuse Pro
Model No.:	UAPBTF16
Trade Mark:	Vuse
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2024-11-20
Date of Test:	2024-11-26 to 2024-12-05
Date of Issue:	2024-12-09

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Ricky Liu
Manager

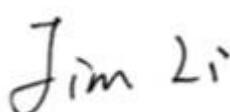
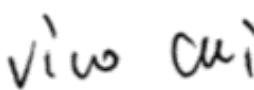


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Revision Record			
Version	Report No.	Date	Remark
01	GZCR241100137202	2024-12-09	Original

Authorized for issue by			
		 Jim Li	
		 Vico Cui	

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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 Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 11.12	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	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	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

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.

There are two configures with different BT antenna for the product, so all the tests were performed on the configure 1 (sample number:GZ_SP_20241170637 with Sunway Antenna, Marked as M1 in the report) and additional test Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions Below 1GHz, Radiated Spurious Emissions Above 1GHz are performed on configure 2 GZ_SP_20241170637 (sample number:GZ_SP_20241170638 with Speed Antenna, Marked as M2 in the report).



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 4.4 V powered by built-in battery as below: Model: L1066E Rated: DC 4.4 V, 400mAh DC 5 V for charging
Cable(s):	Type C charging ports with 0.3m unshielded charging cables
Test Voltage:	AC 120 V, 60 Hz
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	Option 1 (Sunway Antenna): 1.2 dBi according to antenna specification Option 2 (Speed Antenna): -0.4 dBi according to antenna specification
Antenna Number:	1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ
AC/DC Adapter	HUAWEI	Model:HW-110600C02; Input:AC 100-240V,1.8A Max.50/60Hz; Output:DC 5V/2A, 10V/4A, 11V/6A Max.	JL28L4NBM03275
USB Cable (1.0m length)	/	/	/



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.22dB
Radiated Emissions which fall in the restricted bands	±5.14dB (3m); ±4.90dB (10m); ±4.88dB (1GHz-6GHz); ±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±3.08dB (9kHz to 150kHz); ±3.19dB (150kHz to 30MHz); ±5.14dB (30MHz-1GHz) (3m); ±4.90dB (30MHz-1GHz) (10m)
Radiated Spurious Emissions Above 1GHz	±4.88dB (1GHz-6GHz); ±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 0.274%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:
The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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4.5 Test Facility

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

- **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, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Guangzhou Branch, Testing Center, EEC Laboratory

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-24	2025-08-23
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2024-09-02	2025-09-01
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2024-12-04	2025-12-03
Test Software E3r	Audix	Ver.6.191211	GZE100-77	N/A	N/A

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKG-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2024-10-14	2025-10-13
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07

Radiated Spurious Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2024-10-14	2025-10-13
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2024-10-14	2025-10-13
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2136	2023-11-02	2025-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2257	2024-08-19	2025-08-18
MXG Vector Signal Generator	Keysight	N5182B	EMC2258	2024-08-19	2025-08-18
Test Software	TST	V2.0	GZE100-82	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2024-12-03	2025-12-02



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General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2024-06-13	2025-06-12



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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

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 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 Option 1: 1.2 dBi, Option 2: -0.4 dBi.

Antenna location: Refer to internal photo.



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 56.3 % RH Atmospheric Pressure: 1013 mbar

7.1.2 Test Mode Description

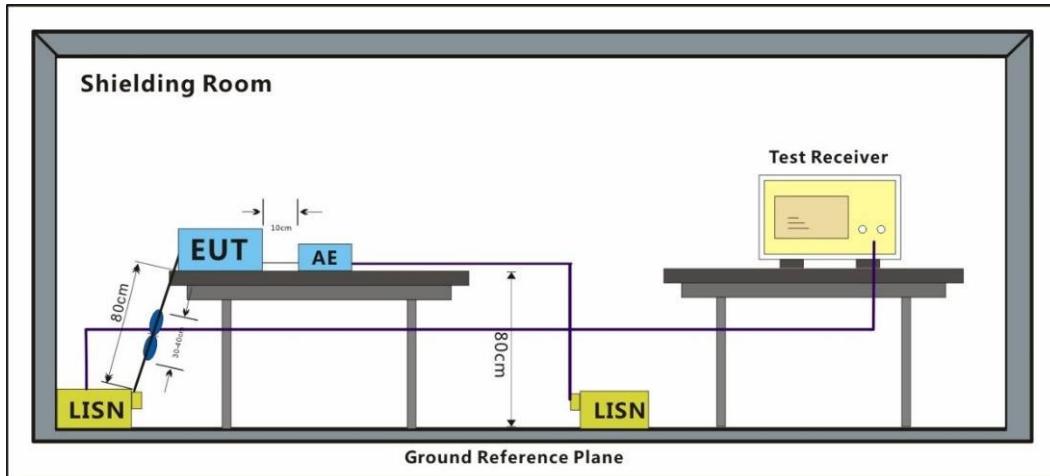
Pre-scan / Final test	Mode Code	Description
Final test	02	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M1.
Pre-scan	03	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M1.
Final test	09	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M2.
Pre-scan	10	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M2.



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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

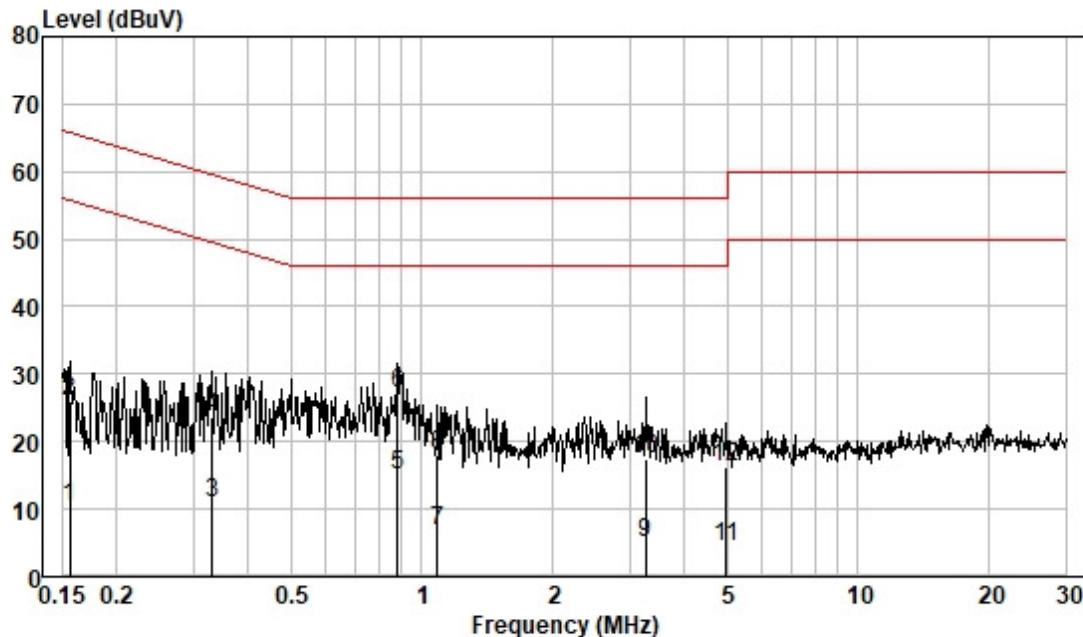
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 02; Line: Live line



Pol :LINE
Mode :
Model :M1
Power :

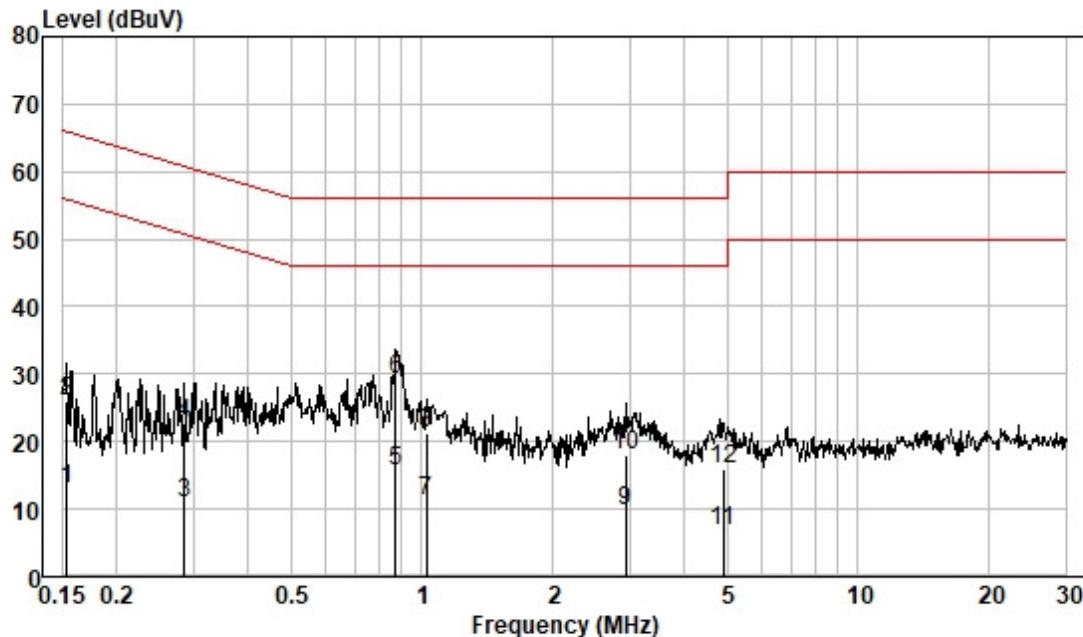
	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
Frequenc MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 0.156	0.85	0.04	9.56	10.45	55.69	-45.24	Average
2 0.156	16.29	0.04	9.56	25.89	65.69	-39.80	QP
3 0.330	1.17	0.04	9.57	10.78	49.44	-38.66	Average
4 0.330	14.13	0.04	9.57	23.74	59.44	-35.70	QP
5 0.880	5.28	0.07	9.61	14.96	46.00	-31.04	Average
6 0.880	17.43	0.07	9.61	27.11	56.00	-28.89	QP
7 1.082	-2.90	0.08	9.54	6.72	46.00	-39.28	Average
8 1.082	8.27	0.08	9.54	17.89	56.00	-38.11	QP
9 3.258	-4.82	0.16	9.57	4.91	46.00	-41.09	Average
10 3.258	7.61	0.16	9.57	17.34	56.00	-38.66	QP
11 4.978	-5.33	0.20	9.60	4.47	46.00	-41.53	Average
12 4.978	6.38	0.20	9.60	16.18	56.00	-39.82	QP



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Test Mode: 02; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model : M1

Power :

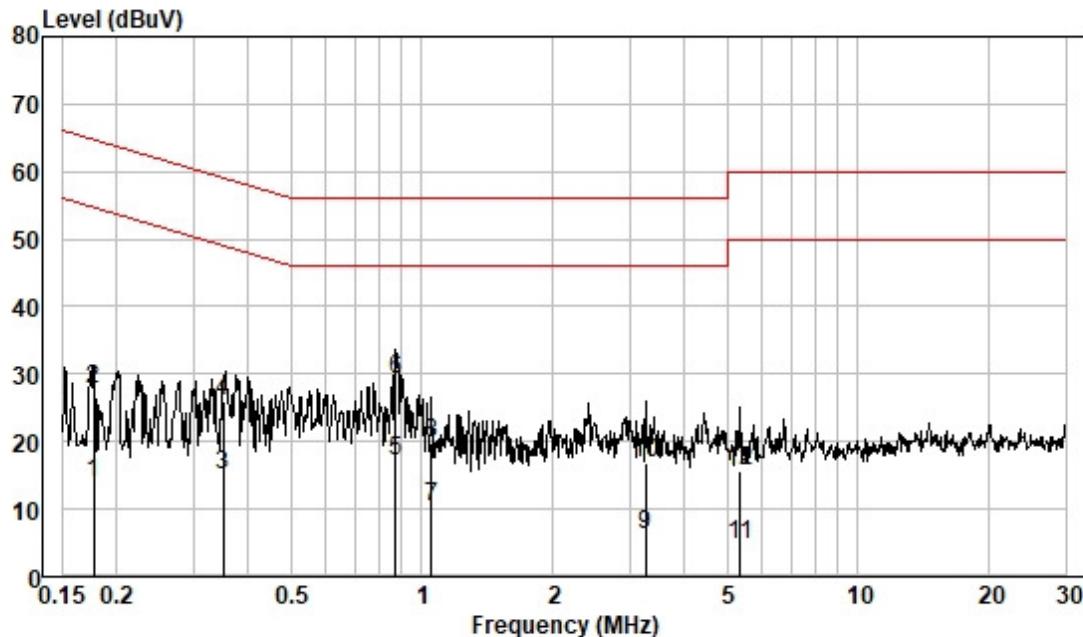
	Frequency	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.153	3.35	0.04	9.51	12.90	55.82	-42.92	Average
2	0.153	16.38	0.04	9.51	25.93	65.82	-39.89	QP
3	0.285	1.46	0.04	9.54	11.04	50.68	-39.64	Average
4	0.285	13.11	0.04	9.54	22.69	60.68	-37.99	QP
5	0.871	5.92	0.07	9.53	15.52	46.00	-30.48	Average
6	0.871	19.74	0.07	9.53	29.34	56.00	-26.66	QP
7	1.027	1.56	0.07	9.56	11.19	46.00	-34.81	Average
8	1.027	11.60	0.07	9.56	21.23	56.00	-34.77	QP
9	2.931	-0.10	0.15	9.56	9.61	46.00	-36.39	Average
10	2.931	8.28	0.15	9.56	17.99	56.00	-38.01	QP
11	4.900	-3.11	0.19	9.65	6.73	46.00	-39.27	Average
12	4.900	6.04	0.19	9.65	15.88	56.00	-40.12	QP



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Test Mode: 09; Line: Live line



Pol :LINE

Mode :

Model :M2

Power :

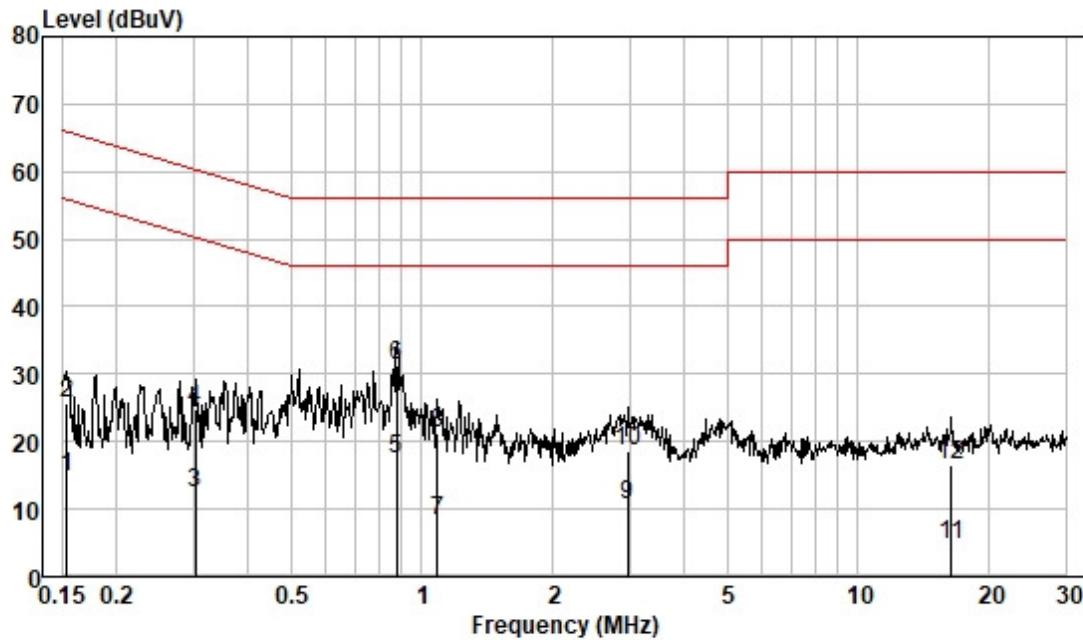
	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
Frequenc MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 0.177	4.31	0.04	9.54	13.89	54.64	-40.75	Average
2 0.177	18.23	0.04	9.54	27.81	64.64	-36.83	QP
3 0.350	5.43	0.05	9.59	15.07	48.96	-33.89	Average
4 0.350	16.33	0.05	9.59	25.97	58.96	-32.99	QP
5 0.871	7.36	0.07	9.61	17.04	46.00	-28.96	Average
6 0.871	19.59	0.07	9.61	29.27	56.00	-26.73	QP
7 1.054	0.59	0.07	9.54	10.20	46.00	-35.80	Average
8 1.054	10.22	0.07	9.54	19.83	56.00	-36.17	QP
9 3.258	-3.61	0.16	9.57	6.12	46.00	-39.88	Average
10 3.258	7.01	0.16	9.57	16.74	56.00	-39.26	QP
11 5.362	-5.20	0.20	9.62	4.62	50.00	-45.38	Average
12 5.362	5.87	0.20	9.62	15.69	60.00	-44.31	QP



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Test Mode: 09; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model : M2

Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.153	5.15	0.04	9.51	14.70	55.82	-41.12	Average
2	0.153	16.19	0.04	9.51	25.74	65.82	-40.08	QP
3	0.302	2.72	0.04	9.54	12.30	50.19	-37.89	Average
4	0.302	15.15	0.04	9.54	24.73	60.19	-35.46	QP
5	0.876	7.76	0.07	9.53	17.36	46.00	-28.64	Average
6	0.876	21.64	0.07	9.53	31.24	56.00	-24.76	QP
7	1.082	-1.39	0.08	9.56	8.25	46.00	-37.75	Average
8	1.082	11.52	0.08	9.56	21.16	56.00	-34.84	QP
9	2.962	0.81	0.16	9.56	10.53	46.00	-35.47	Average
10	2.962	8.75	0.16	9.56	18.47	56.00	-37.53	QP
11	16.398	-5.43	0.34	9.90	4.81	50.00	-45.19	Average
12	16.398	6.31	0.34	9.90	16.55	60.00	-43.45	QP



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7.2 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 11.12

Limit:

Test Distance: 3 m

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 49.9 % RH Atmospheric Pressure: 1013 mbar

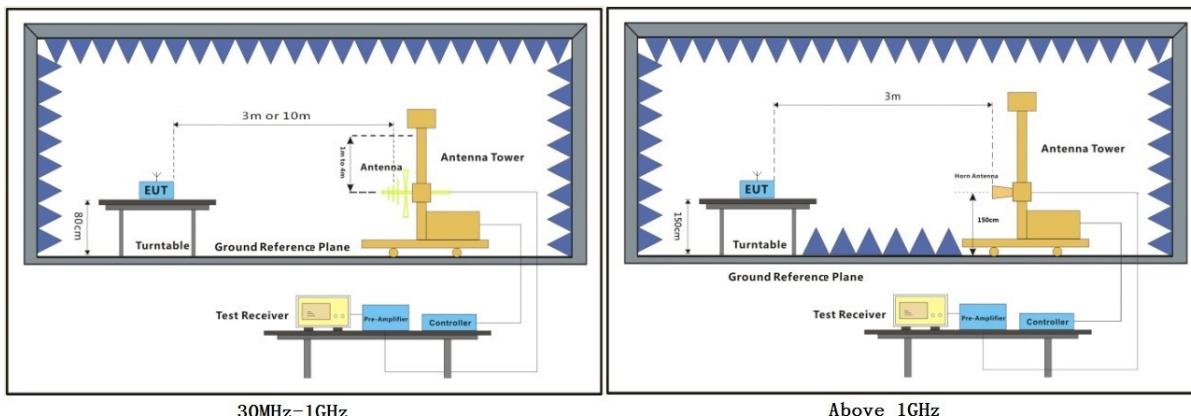


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7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.
Pre-scan	02	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M1.
Pre-scan	03	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M1.
Final test	07	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M2.
Pre-scan	08	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M2.
Pre-scan	09	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M2.
Pre-scan	10	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M2.

7.2.3 Test Setup Diagram

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7.2.4 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

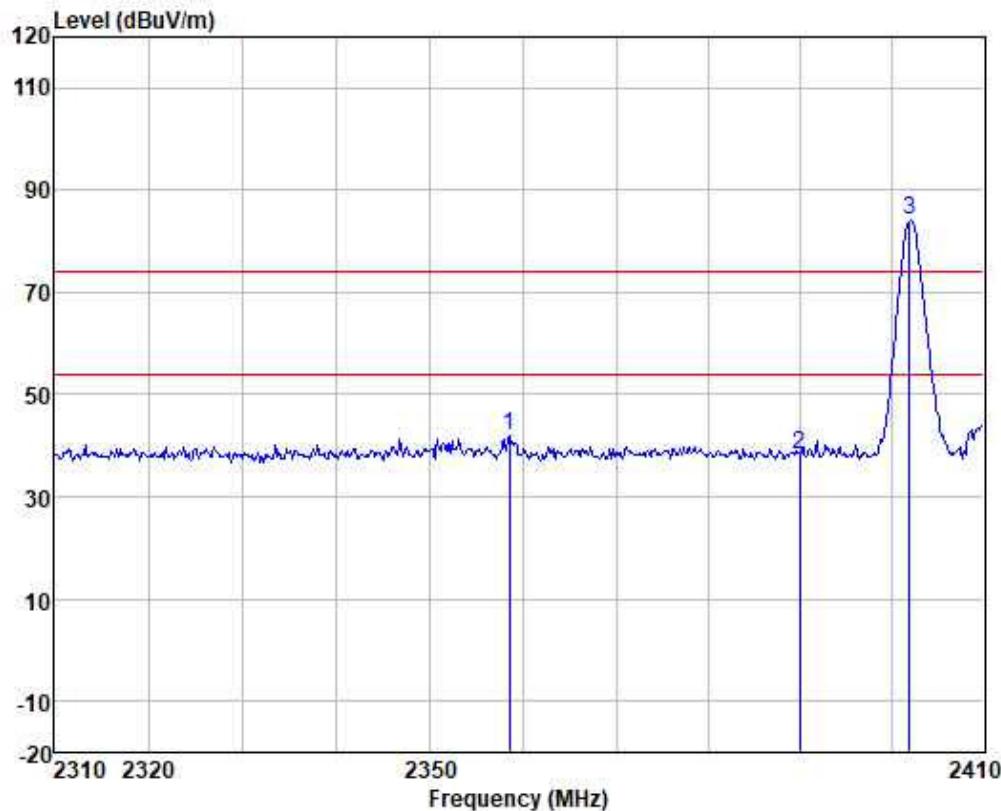
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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



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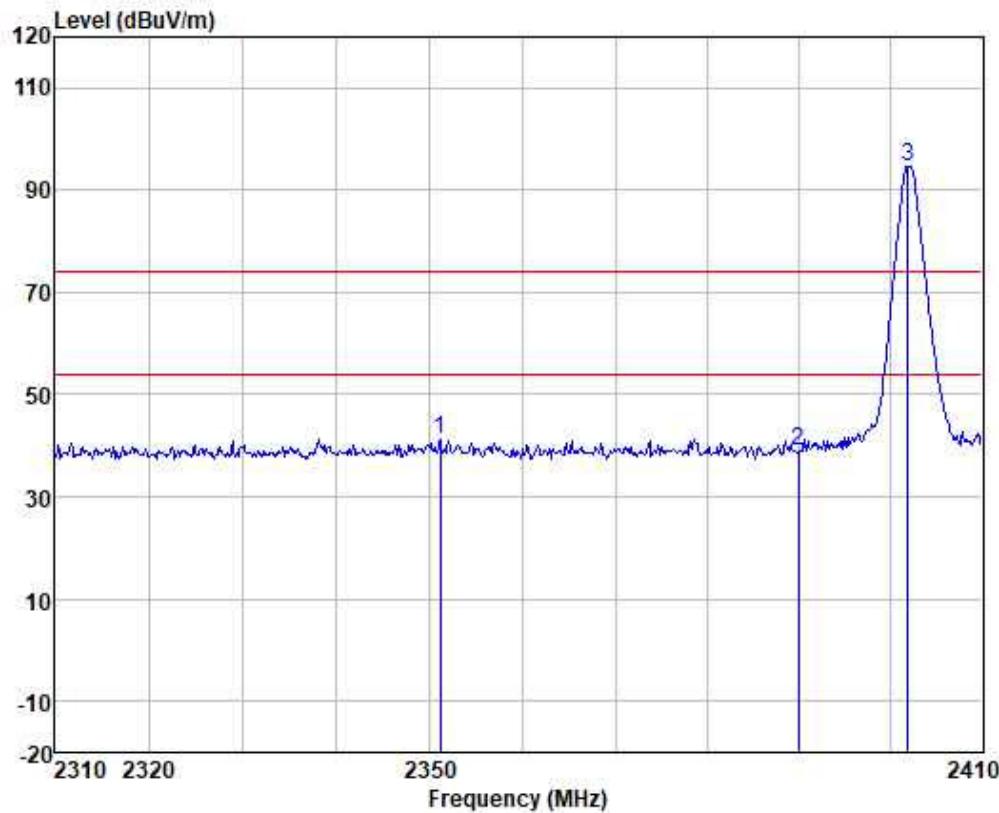
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



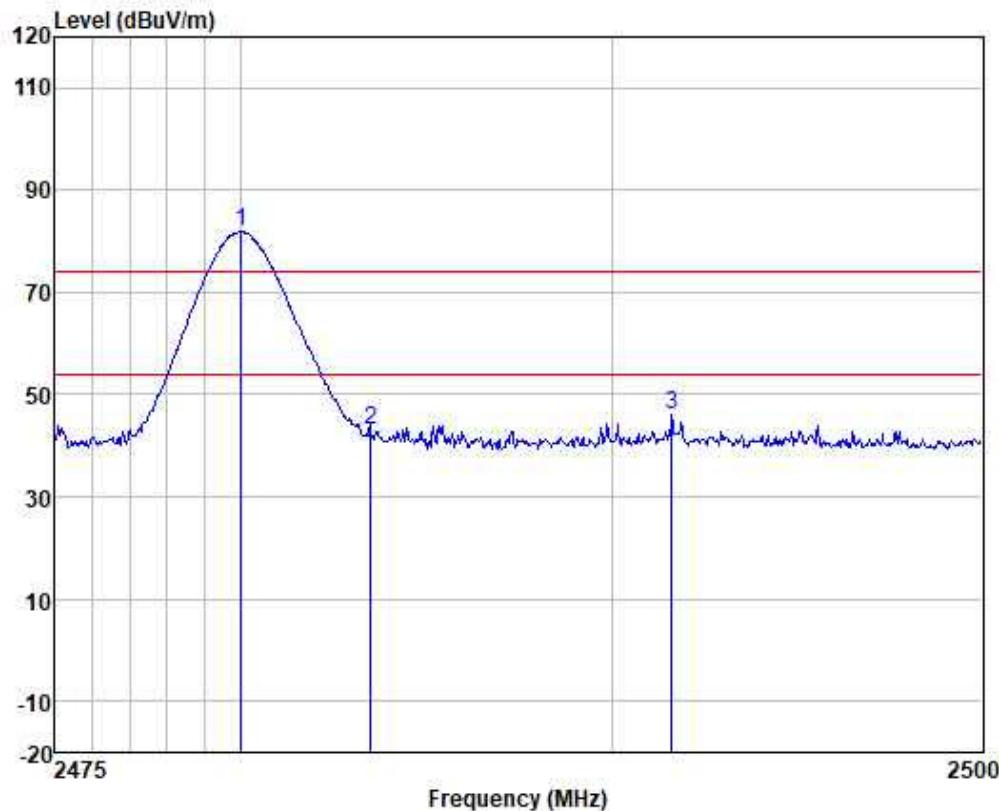
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Freq	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2351.086	48.08	27.61	3.42	37.77	41.34	74.00	-32.66 HORIZONTAL peak
2	2390.000	45.46	27.68	3.44	37.77	38.81	74.00	-35.19 HORIZONTAL peak
3 *	2402.000	101.39	27.71	3.45	37.77	94.78	74.00	20.78 HORIZONTAL peak



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



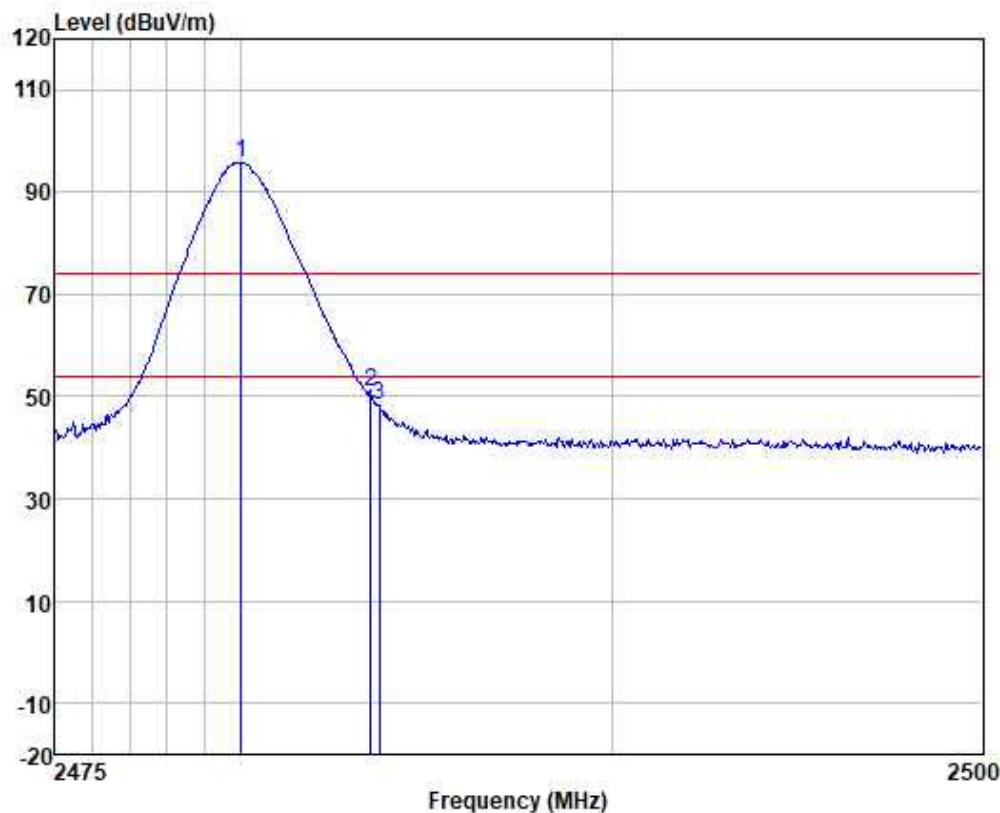
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Freq	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 * 2480.000	88.25	27.84	3.48	37.76	81.81	74.00	7.81	VERTICAL peak
2 2483.500	49.44	27.85	3.49	37.76	43.02	74.00	-30.98	VERTICAL peak
3 2491.622	52.33	27.86	3.49	37.76	45.92	74.00	-28.08	VERTICAL peak



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



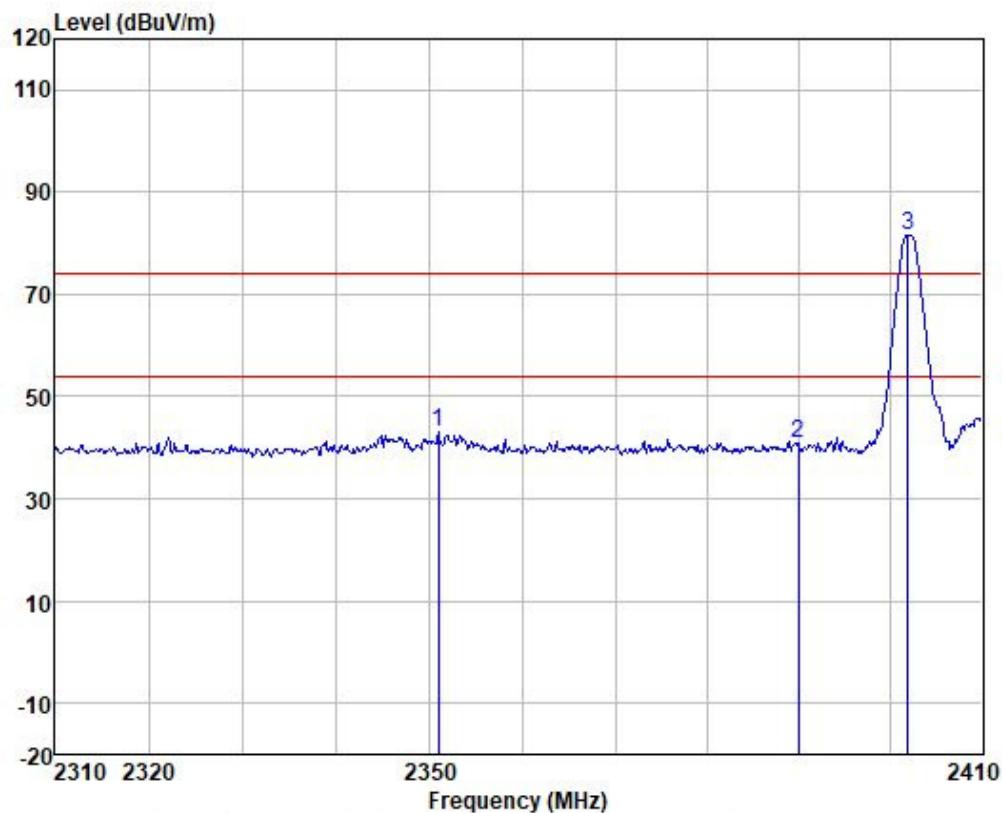
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2480.000	102.15	27.84	3.48	37.76	95.71	74.00	21.71 HORIZONTAL peak
2	2483.500	57.28	27.85	3.49	37.76	50.86	74.00	-23.14 HORIZONTAL peak
3	2483.721	54.77	27.85	3.49	37.76	48.35	74.00	-25.65 HORIZONTAL peak



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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2350.886	49.92	27.61	3.42	37.77	43.18	74.00	-30.82	VERTICAL	peak
2 2390.000	47.57	27.68	3.44	37.77	40.92	74.00	-33.08	VERTICAL	peak
3 * 2402.000	87.98	27.71	3.45	37.77	81.37	74.00	7.37	VERTICAL	peak

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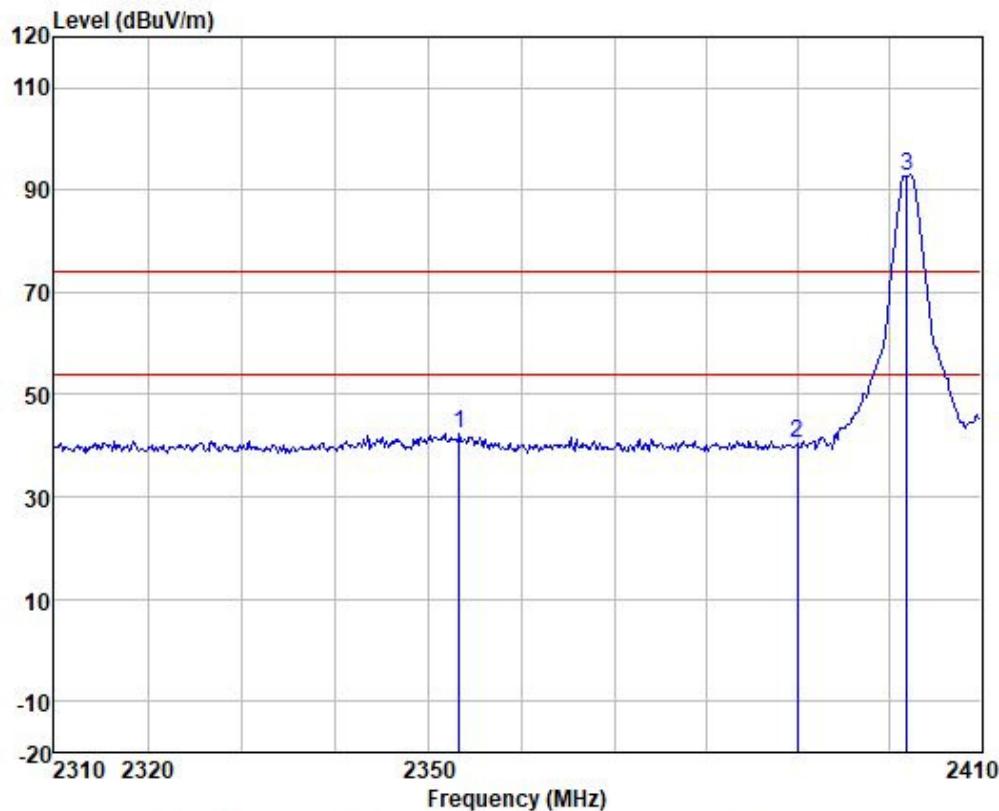
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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Over	Over	Remark
	Level	Factor	Loss	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	
1	2353.279	49.07	27.61	3.42	37.77	42.33	74.00	-31.67	HORIZONTAL	peak
2	2390.000	47.05	27.68	3.44	37.77	40.40	74.00	-33.60	HORIZONTAL	peak
3 *	2402.000	99.51	27.71	3.45	37.77	92.90	74.00	18.90	HORIZONTAL	peak

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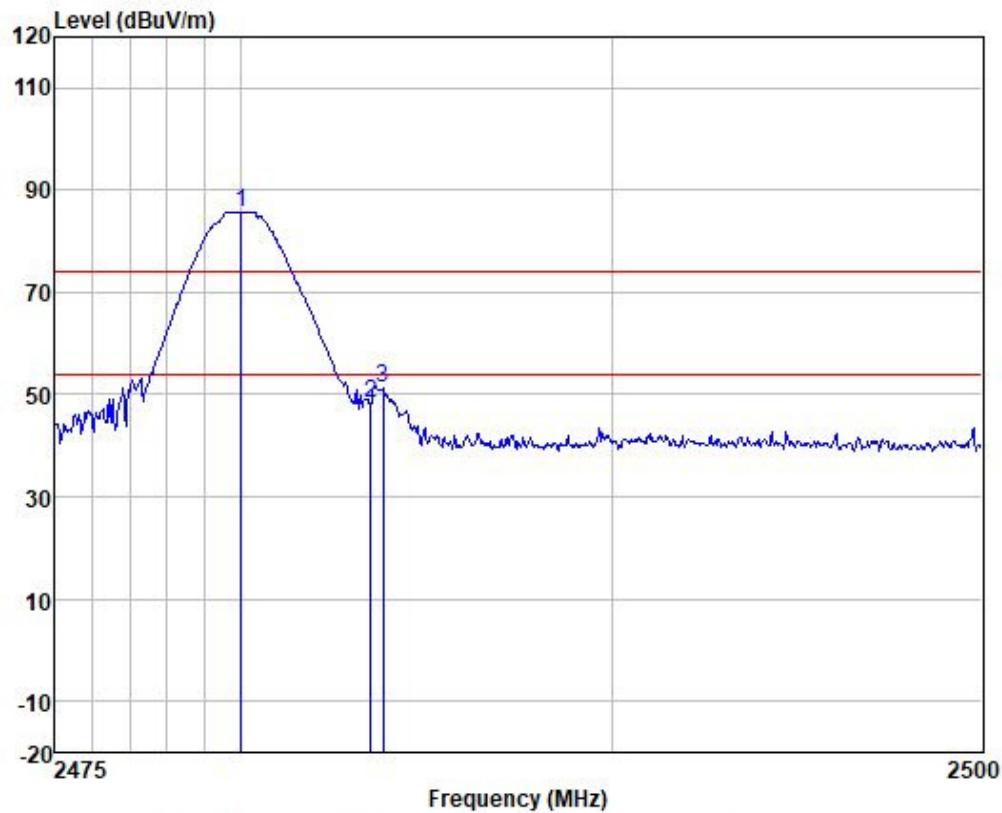
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Freq MHz	Read Level dBuV	Antenna Factor	Cable Loss dB	Preamp Factor	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
	MHz	dB/m		dB	dBuV/m	dBuV/m		
1 * 2480.000	92.09	27.84	3.48	37.76	85.65	74.00	11.65	VERTICAL peak
2 2483.500	54.67	27.85	3.49	37.76	48.25	74.00	-25.75	VERTICAL peak
3 2483.821	57.54	27.85	3.49	37.76	51.12	74.00	-22.88	VERTICAL peak

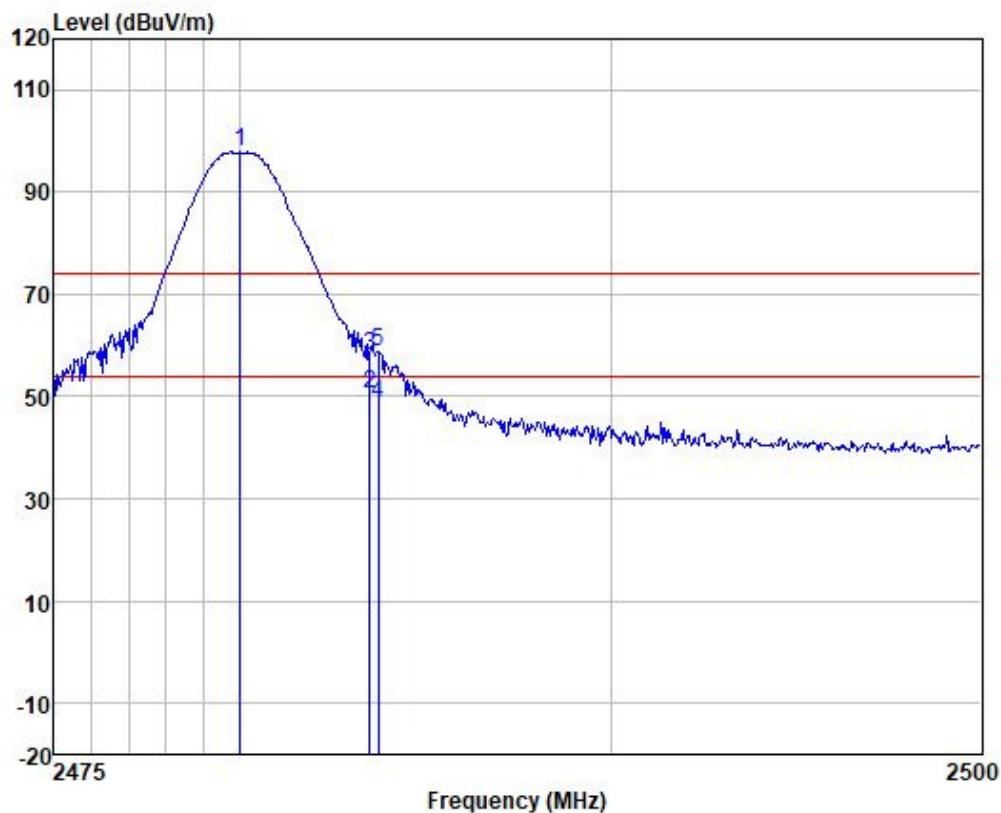
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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 2480.000	104.26	27.84	3.48	37.76	97.82	74.00	23.82	HORIZONTAL	peak
2 2483.500	56.84	27.85	3.49	37.76	50.42	54.00	-3.58	HORIZONTAL	Average
3 2483.500	64.32	27.85	3.49	37.76	57.90	74.00	-16.10	HORIZONTAL	peak
4 2483.721	55.10	27.85	3.49	37.76	48.68	54.00	-5.32	HORIZONTAL	Average
5 2483.721	65.09	27.85	3.49	37.76	58.67	74.00	-15.33	HORIZONTAL	peak

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7.3 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

Limit:

Test Distance: 3 m

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
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 52.5 % RH Atmospheric Pressure: 1013 mbar

7.3.2 Test Mode Description

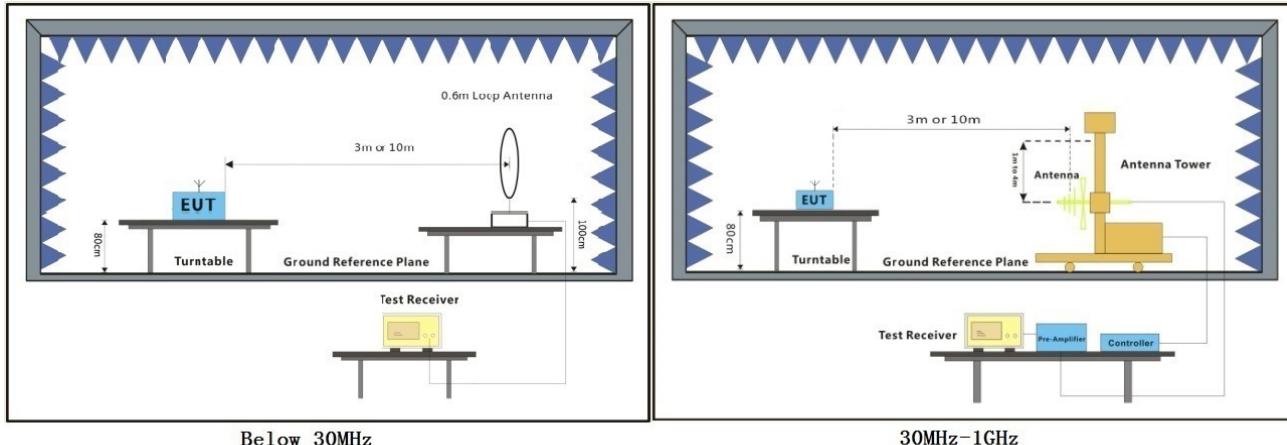
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.
Pre-scan	02	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M1.
Pre-scan	03	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M1.
Final test	07	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M2.
Pre-scan	08	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M2.
Pre-scan	09	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M2.
Pre-scan	10	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M2.



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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

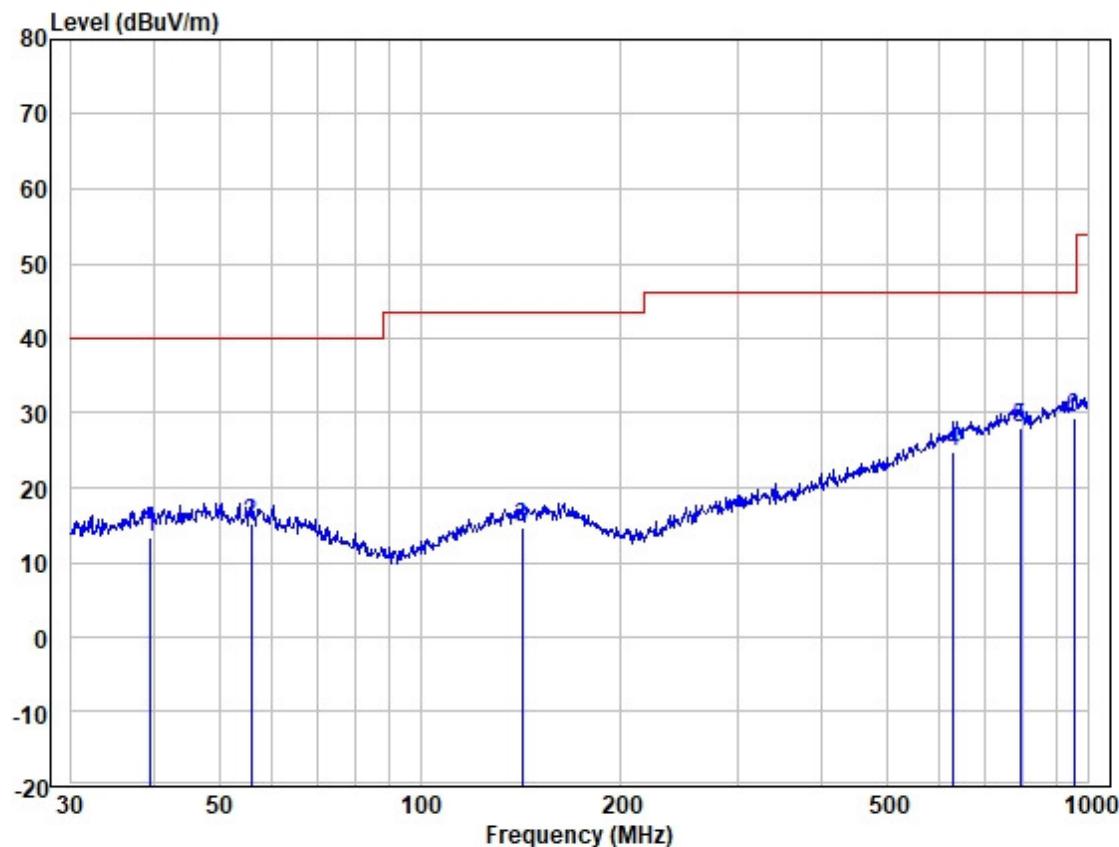
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, 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.



Test Mode: 00; Polarity: Horizontal



Site : 966 Chamber
Job :
Model : M1
Power :
Test Mode :

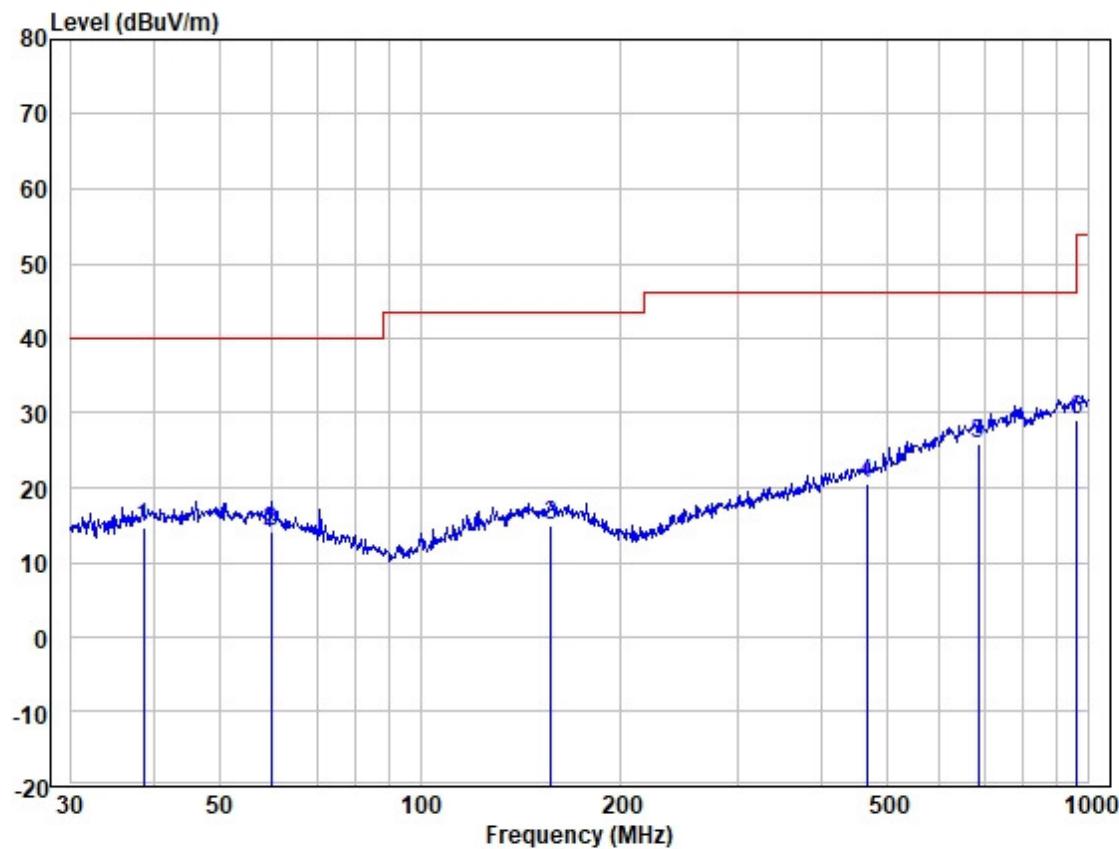
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 39.437	26.81	19.09	0.35	32.86	13.39	40.00	-26.61	HORIZONTAL	QP
2 55.805	28.41	19.18	0.40	32.87	15.12	40.00	-24.88	HORIZONTAL	QP
3 142.324	28.12	18.74	0.64	32.81	14.69	43.52	-28.83	HORIZONTAL	QP
4 629.477	29.89	26.32	1.45	32.82	24.84	46.02	-21.18	HORIZONTAL	QP
5 790.619	30.40	28.39	1.65	32.44	28.00	46.02	-18.02	HORIZONTAL	QP
6 952.094	29.53	29.76	1.80	31.73	29.36	46.02	-16.66	HORIZONTAL	QP



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Test Mode: 00; Polarity: Vertical



Site : 966 Chamber
Job :
Model : M1
Power :
Test Mode :

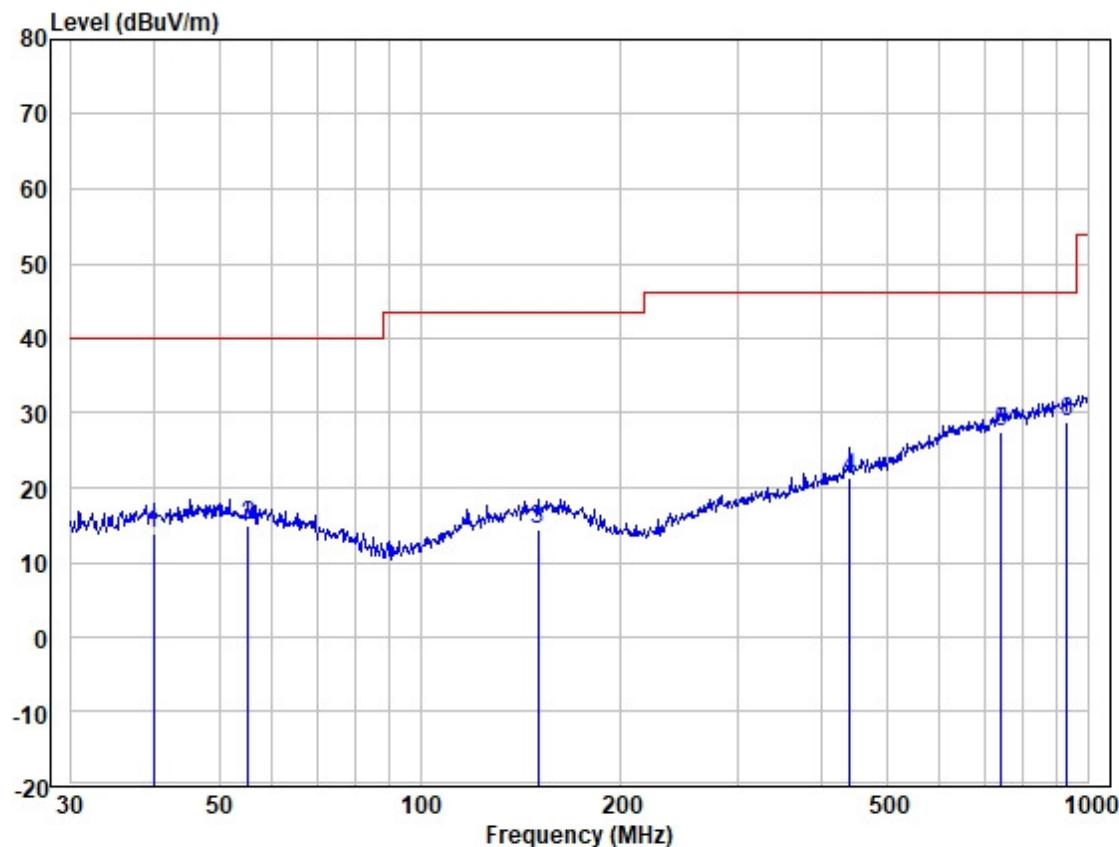
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 38.616	28.28	18.93	0.35	32.86	14.70	40.00	-25.30	VERTICAL	QP
2 59.859	27.91	18.79	0.41	32.87	14.24	40.00	-25.76	VERTICAL	QP
3 157.007	27.83	19.18	0.69	32.83	14.87	43.52	-28.65	VERTICAL	QP
4 467.235	29.30	23.06	1.26	32.98	20.64	46.02	-25.38	VERTICAL	QP
5 684.745	30.35	26.43	1.53	32.56	25.75	46.02	-20.27	VERTICAL	QP
6 962.162	29.20	29.75	1.82	31.71	29.06	53.98	-24.92	VERTICAL	QP



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Test Mode: 07; Polarity: Horizontal



Site : 966 Chamber
Job :
Model : M2
Power :
Test Mode :

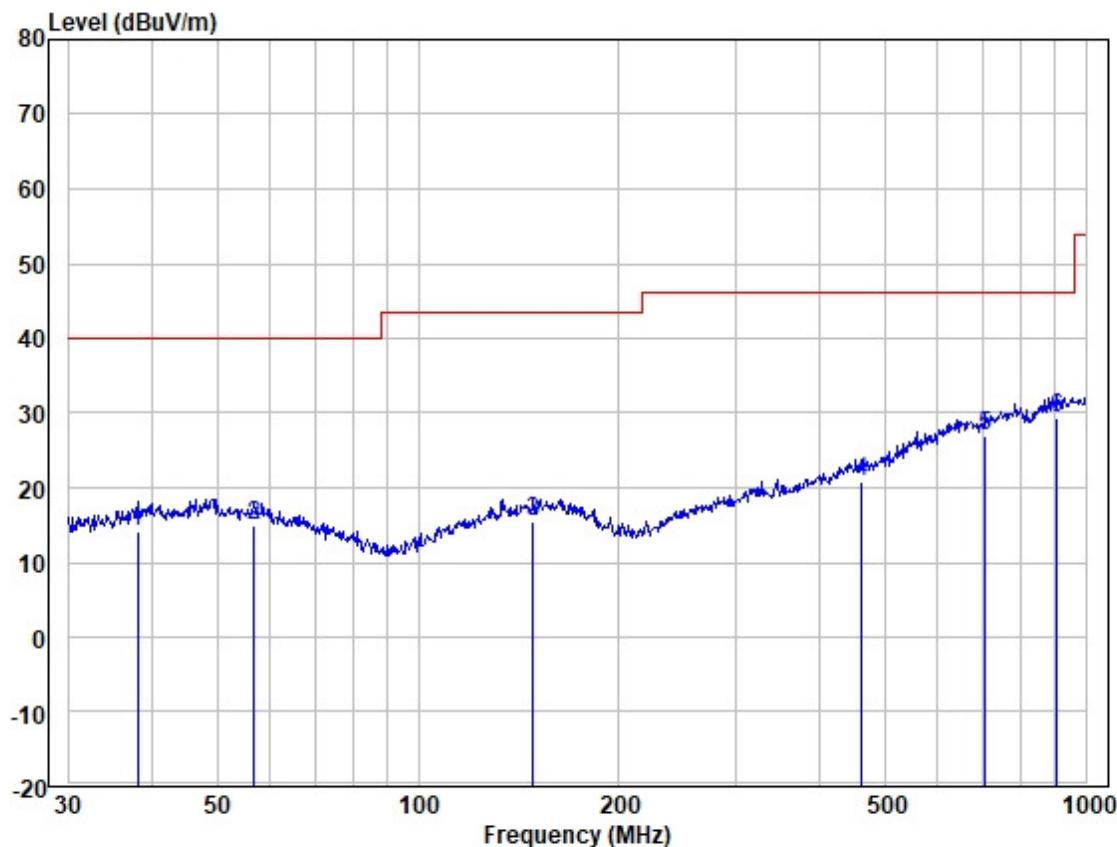
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
1 39.854	27.41	19.09	0.35	32.87	13.98	40.00	-26.02	HORIZONTAL	QP
2 55.221	28.09	19.28	0.40	32.88	14.89	40.00	-25.11	HORIZONTAL	QP
3 150.011	27.38	19.04	0.67	32.82	14.27	43.52	-29.25	HORIZONTAL	QP
4 440.196	30.59	22.45	1.20	32.97	21.27	46.02	-24.75	HORIZONTAL	QP
5 742.259	30.59	27.81	1.58	32.48	27.50	46.02	-18.52	HORIZONTAL	QP
6 929.008	29.02	29.73	1.77	31.81	28.71	46.02	-17.31	HORIZONTAL	QP



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Test Mode: 07; Polarity: Vertical



Site : 966 Chamber
Job :
Model : M2
Power :
Test Mode :

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
1 38.078	28.02	18.73	0.34	32.86	14.23	40.00	-25.77	VERTICAL	QP
2 56.792	28.34	19.08	0.40	32.87	14.95	40.00	-25.05	VERTICAL	QP
3 148.441	28.71	18.96	0.66	32.82	15.51	43.52	-28.01	VERTICAL	QP
4 462.346	29.48	22.97	1.25	32.98	20.72	46.02	-25.30	VERTICAL	QP
5 706.700	30.95	26.97	1.54	32.52	26.94	46.02	-19.08	VERTICAL	QP
6 906.482	30.03	29.48	1.76	31.96	29.31	46.02	-16.71	VERTICAL	QP

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7.4 Radiated Spurious Emissions Above 1GHz

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

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

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 49.9 % RH Atmospheric Pressure: 1013 mbar

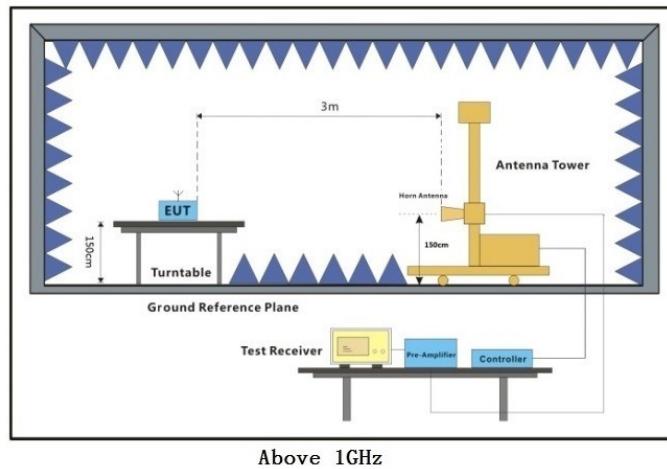
7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.
Pre-scan	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.
Pre-scan	02	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M1.
Pre-scan	03	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M1.
Final test	07	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M2.
Pre-scan	08	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M2.
Pre-scan	09	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M2.
Pre-scan	10	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation for M2.



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7.4.3 Test Setup Diagram

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7.4.4 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 (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 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:

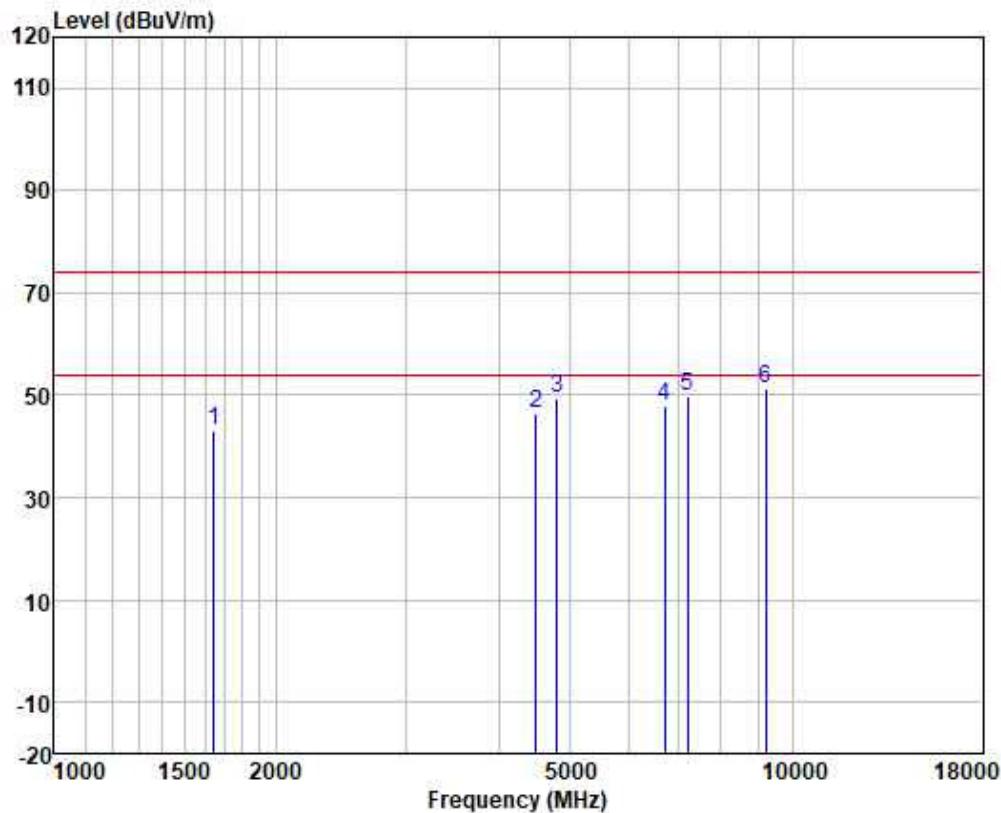
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, 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.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark		
	Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1644.019	53.36	24.84	2.79	38.08	42.91	74.00	-31.09	VERTICAL peak
2	4495.125	45.26	34.17	4.62	37.44	46.61	74.00	-27.39	VERTICAL peak
3	4804.000	47.77	34.16	4.81	37.38	49.36	74.00	-24.64	VERTICAL peak
4	6717.762	44.84	34.42	5.75	37.12	47.89	74.00	-26.11	VERTICAL peak
5	7206.000	45.58	35.63	5.93	37.17	49.97	74.00	-24.03	VERTICAL peak
6	9205.540	43.79	37.97	6.73	37.13	51.36	74.00	-22.64	VERTICAL peak

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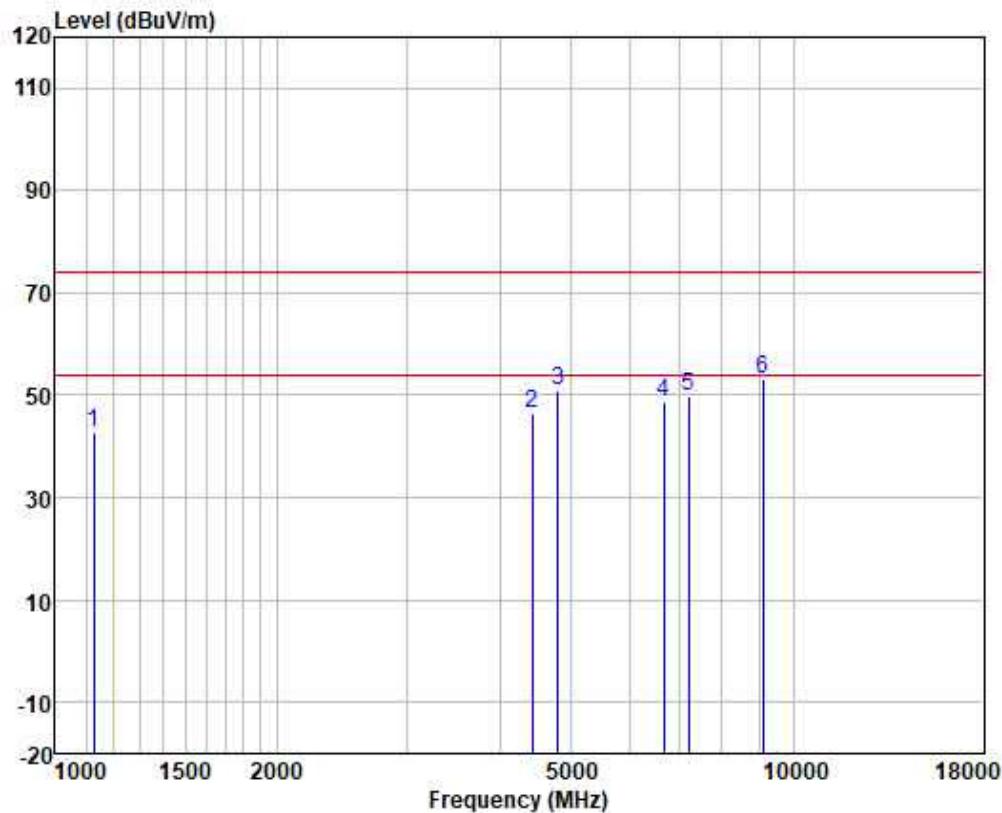


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Freq MHz	Read Freq MHz	Antenna Level dBuV	Cable Loss dB	Preamp Factor	Level dB	Limit Line dBuV/m	Over Limit dB	Over Line dBuV/m	Over Pol/Phase dB	Remark
1	1129.072	56.18	22.78	2.30	38.72	42.54	74.00	-31.46	HORIZONTAL	peak
2	4430.628	45.53	33.87	4.61	37.45	46.56	74.00	-27.44	HORIZONTAL	peak
3	4804.000	49.29	34.16	4.81	37.38	50.88	74.00	-23.12	HORIZONTAL	peak
4	6679.040	45.67	34.28	5.72	37.12	48.55	74.00	-25.45	HORIZONTAL	peak
5	7206.000	45.35	35.63	5.93	37.17	49.74	74.00	-24.26	HORIZONTAL	peak
6	9099.724	45.96	37.75	6.64	37.14	53.21	74.00	-20.79	HORIZONTAL	peak

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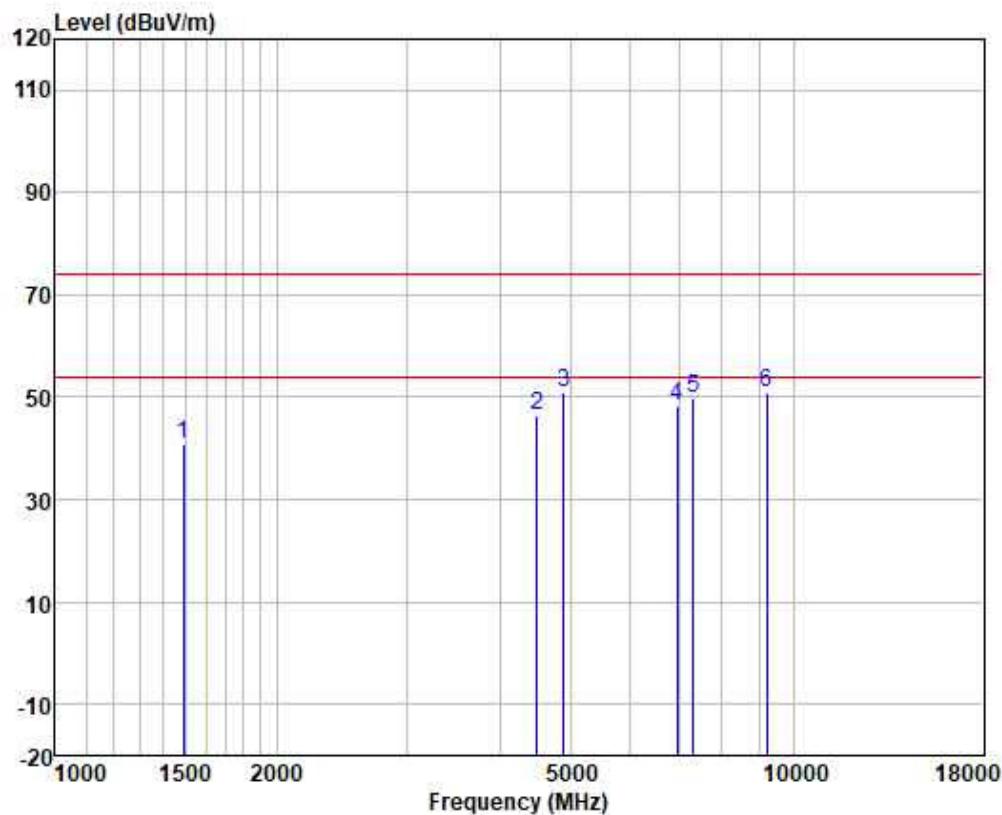
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Freq	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1490.142	52.08	24.42	2.70	38.33	40.87	74.00	-33.13 VERTICAL peak
2	4495.125	45.27	34.17	4.62	37.44	46.62	74.00	-27.38 VERTICAL peak
3	4880.000	49.43	34.15	4.85	37.35	51.08	74.00	-22.92 VERTICAL peak
4	6954.852	44.62	35.04	5.86	37.14	48.38	74.00	-25.62 VERTICAL peak
5	7320.000	44.83	36.07	5.98	37.18	49.70	74.00	-24.30 VERTICAL peak
6	9205.540	43.32	37.97	6.73	37.13	50.89	74.00	-23.11 VERTICAL peak

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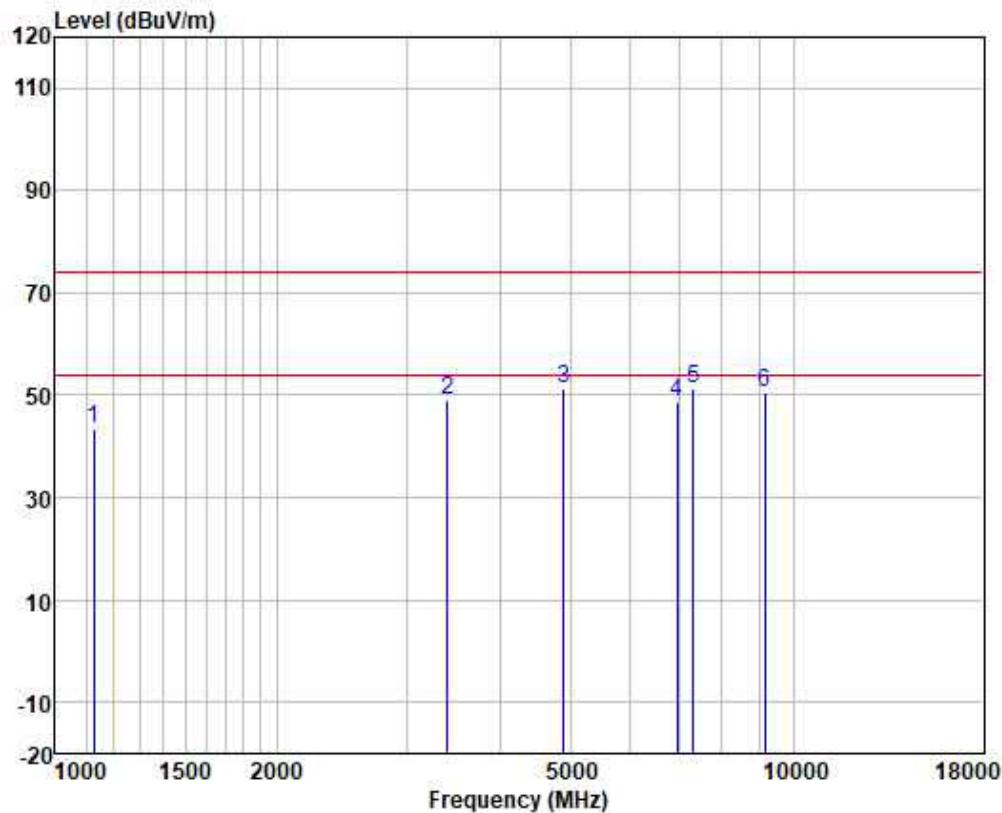
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



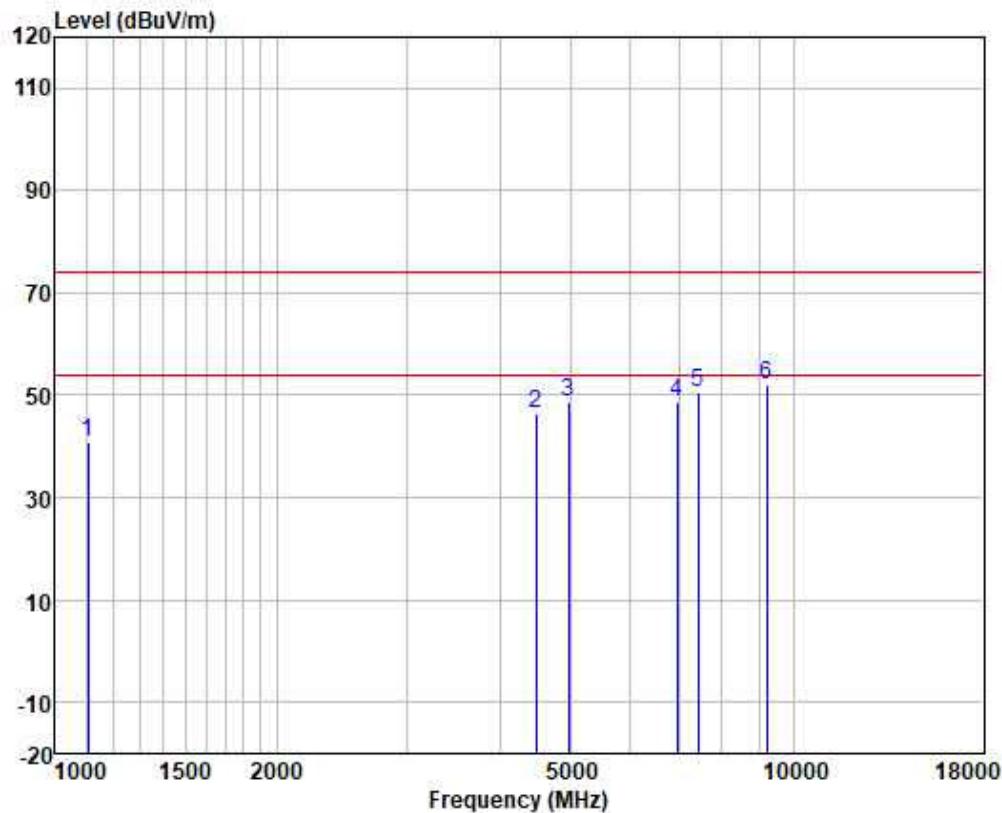
Freq MHz	Read Freq MHz	Antenna Level dBuV	Cable Loss dB	Preamp Factor	Level dB	Limit Line dBuV/m	Over Limit dB	Over Line dBuV/m	Over Pol/Phase dB	Remark
1	1129.072	57.12	22.78	2.30	38.72	43.48	74.00	-30.52	HORIZONTAL	peak
2	3396.098	53.55	28.99	4.06	37.56	49.04	74.00	-24.96	HORIZONTAL	peak
3	4880.000	49.81	34.15	4.85	37.35	51.46	74.00	-22.54	HORIZONTAL	peak
4	6954.852	44.98	35.04	5.86	37.14	48.74	74.00	-25.26	HORIZONTAL	peak
5	7320.000	46.56	36.07	5.98	37.18	51.43	74.00	-22.57	HORIZONTAL	peak
6	9152.479	43.19	37.85	6.68	37.13	50.59	74.00	-23.41	HORIZONTAL	peak



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



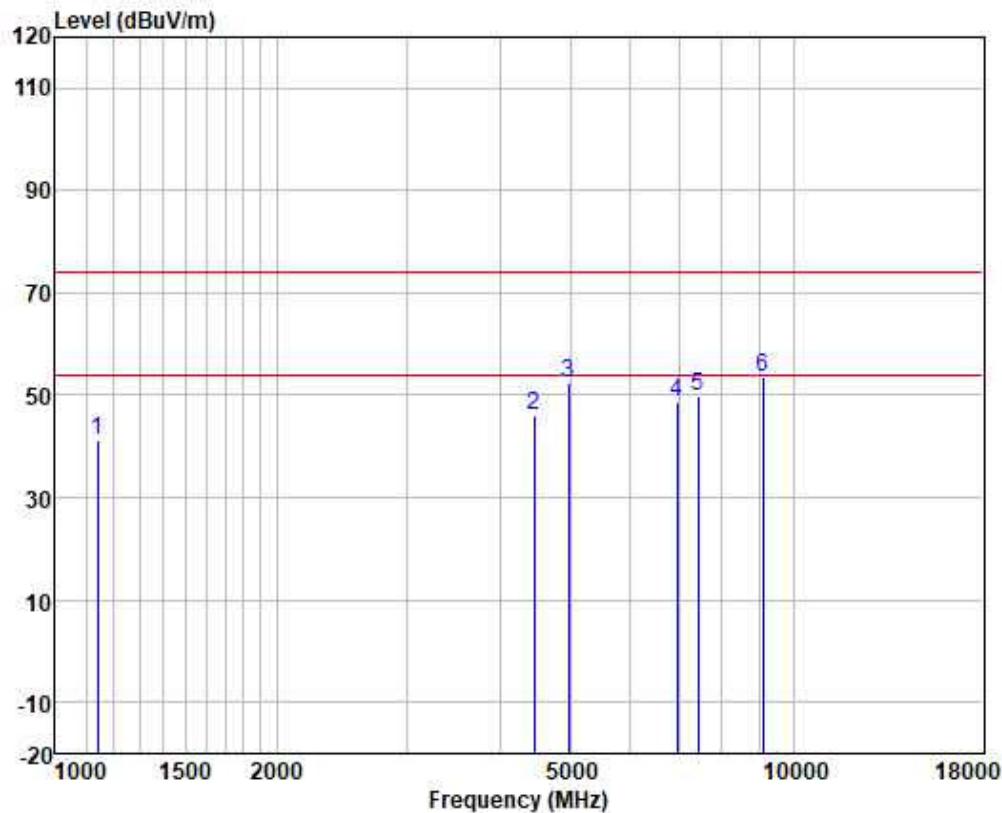
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Over	Remark
	Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1109.660	54.77	22.71	2.28	38.74	41.02	74.00	-32.98	VERTICAL peak
2	4482.150	45.25	34.12	4.62	37.44	46.55	74.00	-27.45	VERTICAL peak
3	4960.000	46.91	34.15	4.89	37.32	48.63	74.00	-25.37	VERTICAL peak
4	6954.852	44.88	35.04	5.86	37.14	48.64	74.00	-25.36	VERTICAL peak
5	7440.000	45.32	36.33	6.02	37.18	50.49	74.00	-23.51	VERTICAL peak
6	9205.540	44.67	37.97	6.73	37.13	52.24	74.00	-21.76	VERTICAL peak

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



Freq MHz	Read Freq MHz	Antenna Level dBuV	Cable Loss dB	Preamp Factor	Level dB	Limit Line dBuV/m	Over Line dBuV/m	Over Limit dB	Over Pol/Phase	Remark
1	1142.201	54.72	22.83	2.31	38.72	41.14	74.00	-32.86	HORIZONTAL	peak
2	4456.315	45.00	34.00	4.61	37.45	46.16	74.00	-27.84	HORIZONTAL	peak
3	4960.000	50.53	34.15	4.89	37.32	52.25	74.00	-21.75	HORIZONTAL	peak
4	6954.852	45.01	35.04	5.86	37.14	48.77	74.00	-25.23	HORIZONTAL	peak
5	7440.000	44.65	36.33	6.02	37.18	49.82	74.00	-24.18	HORIZONTAL	peak
6	9099.724	46.26	37.75	6.64	37.14	53.51	74.00	-20.49	HORIZONTAL	peak

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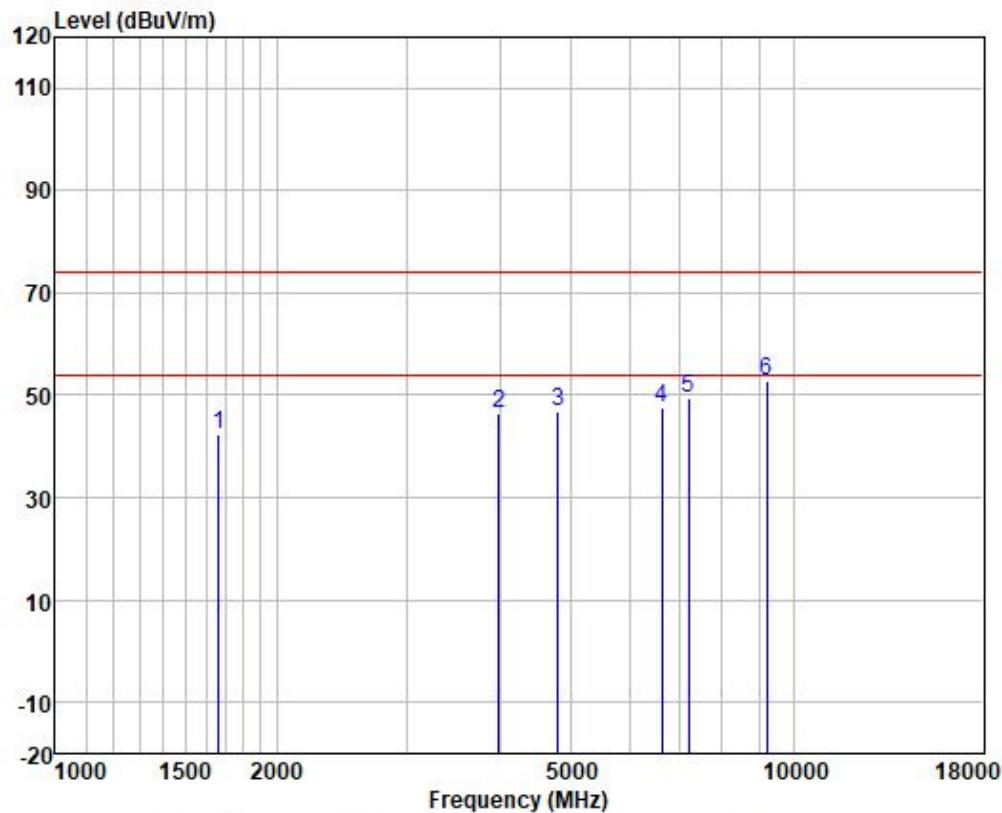
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



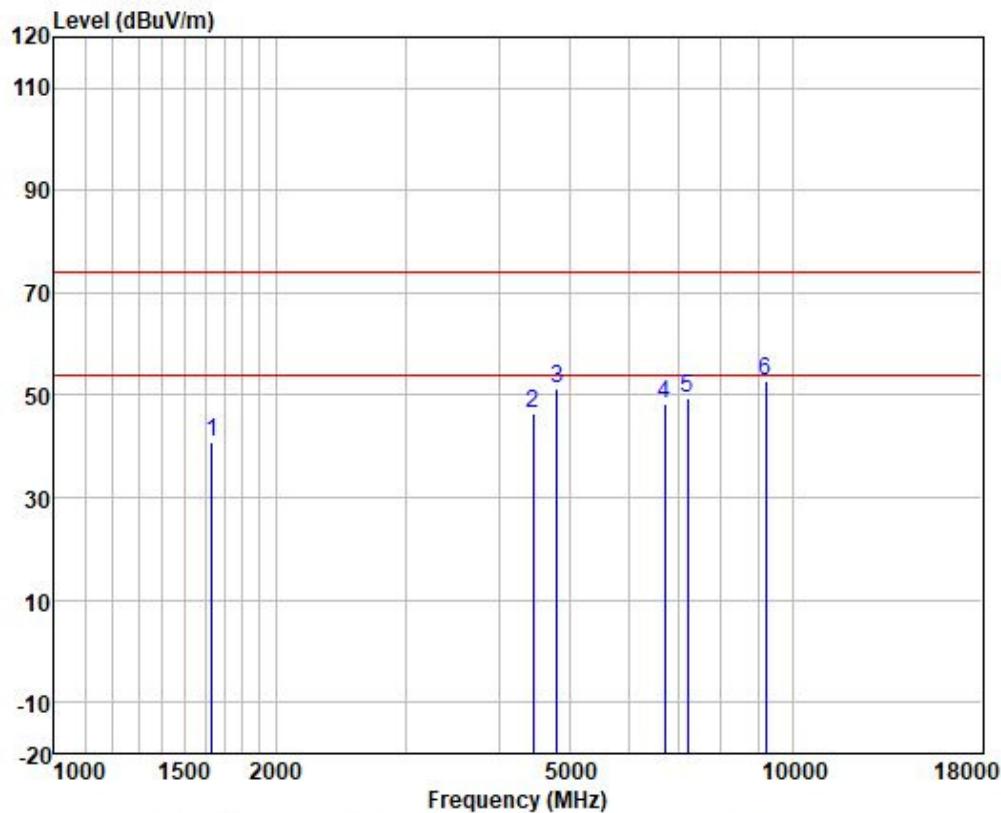
Freq MHz	Read Freq MHz	Antenna Level dBuV	Cable Loss dB	Preamp Factor	Level dB	Limit Line dBuV/m	Over Limit dB	Over Line Pol/Phase	Remark
1	1663.137	52.80	24.93	2.81	38.06	42.48	74.00	-31.52	VERTICAL peak
2	3992.781	48.92	30.59	4.49	37.50	46.50	74.00	-27.50	VERTICAL peak
3	4804.000	45.34	34.16	4.81	37.38	46.93	74.00	-27.07	VERTICAL peak
4	6640.542	44.91	34.17	5.70	37.12	47.66	74.00	-26.34	VERTICAL peak
5	7206.000	45.01	35.63	5.93	37.17	49.40	74.00	-24.60	VERTICAL peak
6	9205.540	45.38	37.97	6.73	37.13	52.95	74.00	-21.05	VERTICAL peak



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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Freq MHz	ReadAntenna 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	51.25	24.81	2.78	38.11	40.73	74.00	-33.27	HORIZONTAL	peak
2 4456.315	45.25	34.00	4.61	37.45	46.41	74.00	-27.59	HORIZONTAL	peak
3 4804.000	49.71	34.16	4.81	37.38	51.30	74.00	-22.70	HORIZONTAL	peak
4 6717.762	45.38	34.42	5.75	37.12	48.43	74.00	-25.57	HORIZONTAL	peak
5 7206.000	45.18	35.63	5.93	37.17	49.57	74.00	-24.43	HORIZONTAL	peak
6 9205.540	45.22	37.97	6.73	37.13	52.79	74.00	-21.21	HORIZONTAL	peak

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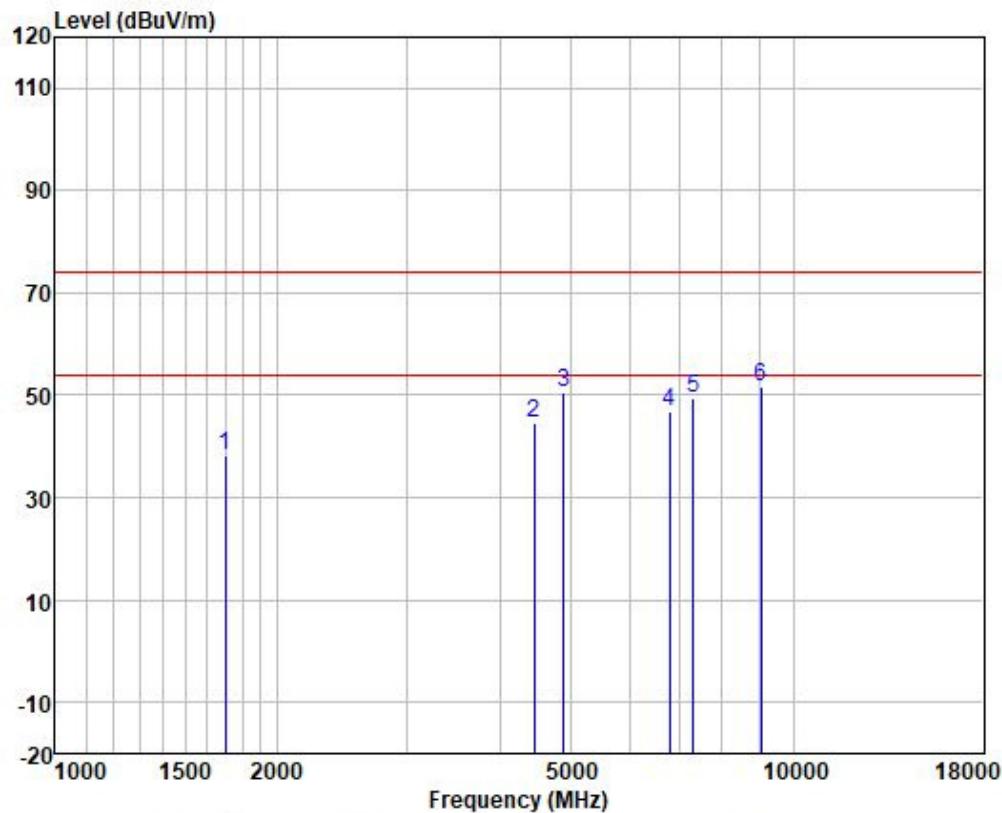
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



Freq MHz	Read Freq MHz	Antenna Level dBuV	Cable Loss dB	Preamp Factor	Level dB	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1 1702.042	48.09	25.15	2.85	38.03	38.06	74.00	-35.94	VERTICAL	peak
2 4456.315	43.54	34.00	4.61	37.45	44.70	74.00	-29.30	VERTICAL	peak
3 4880.000	48.82	34.15	4.85	37.35	50.47	74.00	-23.53	VERTICAL	peak
4 6795.879	43.66	34.69	5.79	37.13	47.01	74.00	-26.99	VERTICAL	peak
5 7320.000	44.68	36.07	5.98	37.18	49.55	74.00	-24.45	VERTICAL	peak
6 9047.272	44.50	37.67	6.60	37.14	51.63	74.00	-22.37	VERTICAL	peak

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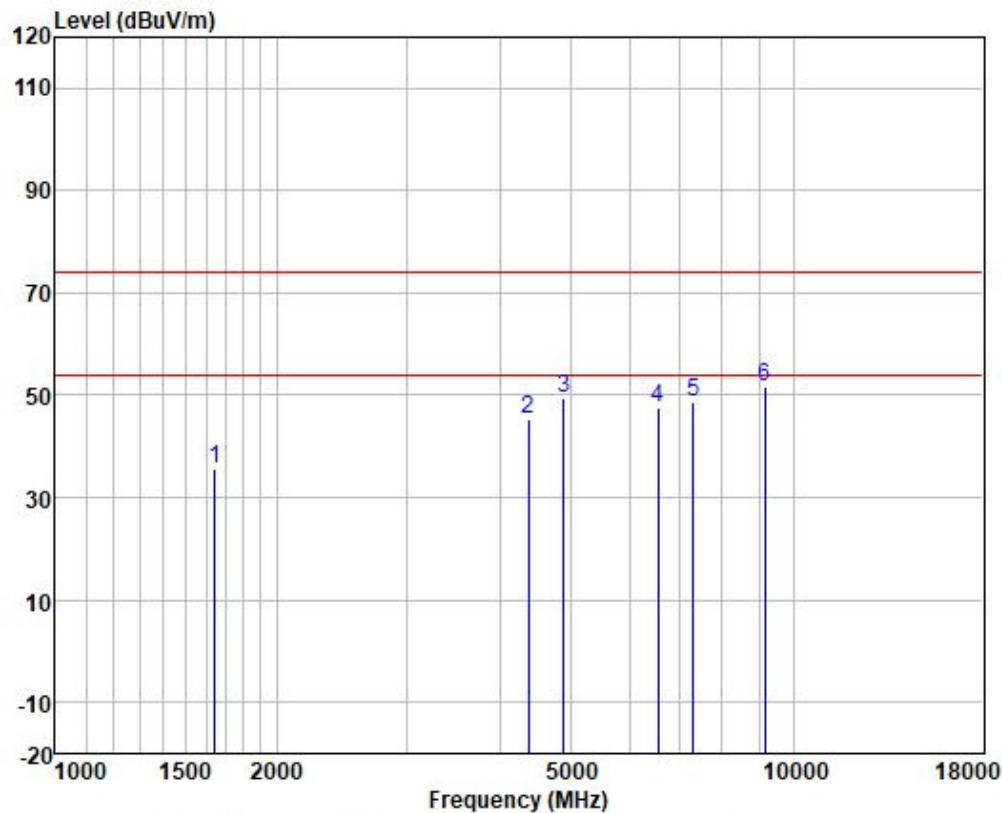
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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Freq MHz	Read Freq MHz	Antenna Level dBuV	Cable Loss dB	Preamp Factor	Level dB	Limit Line dBuV/m	Over Limit dB	Over Line Pol/Phase	Remark
1 1644.019	46.09	24.84	2.79	38.08	35.64	74.00	-38.36	HORIZONTAL	peak
2 4379.699	44.45	33.59	4.60	37.46	45.18	74.00	-28.82	HORIZONTAL	peak
3 4880.000	47.88	34.15	4.85	37.35	49.53	74.00	-24.47	HORIZONTAL	peak
4 6564.209	45.08	33.99	5.67	37.12	47.62	74.00	-26.38	HORIZONTAL	peak
5 7320.000	43.99	36.07	5.98	37.18	48.86	74.00	-25.14	HORIZONTAL	peak
6 9152.479	44.44	37.85	6.68	37.13	51.84	74.00	-22.16	HORIZONTAL	peak

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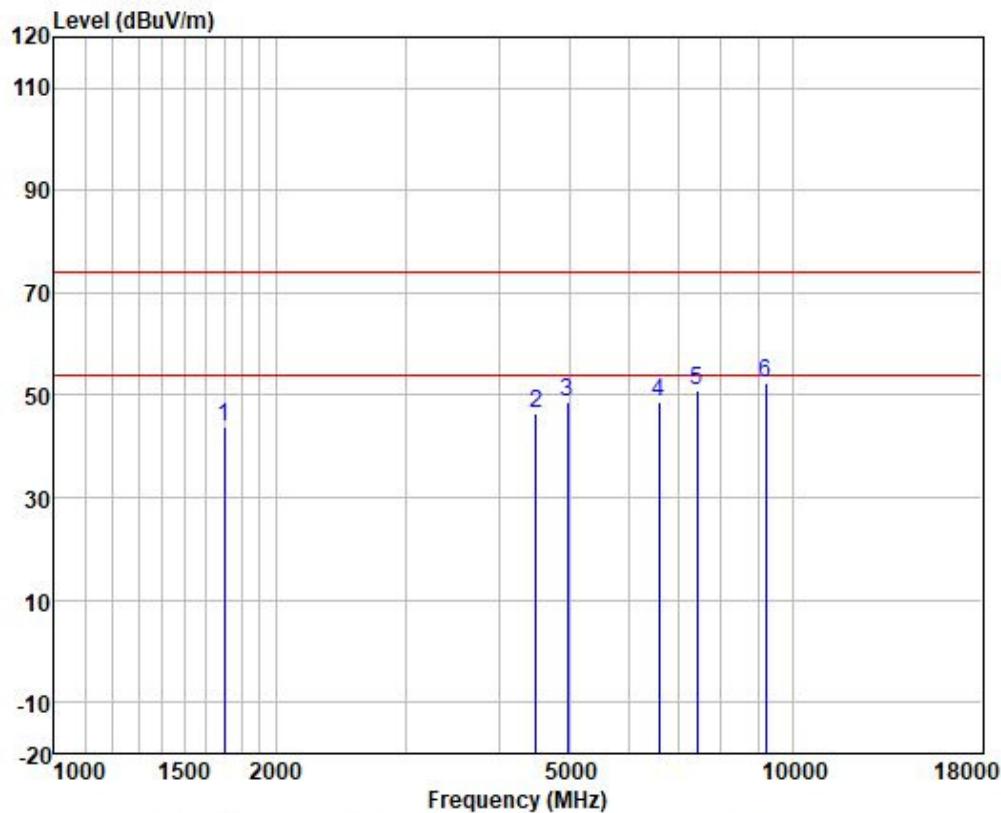
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Over	Remark
	Antenna	Level	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1	1702.042	53.98	25.15	2.85	38.03	43.95	74.00	-30.05	VERTICAL peak
2	4495.125	45.12	34.17	4.62	37.44	46.47	74.00	-27.53	VERTICAL peak
3	4960.000	46.79	34.15	4.89	37.32	48.51	74.00	-25.49	VERTICAL peak
4	6602.265	45.93	34.07	5.69	37.12	48.57	74.00	-25.43	VERTICAL peak
5	7440.000	45.70	36.33	6.02	37.18	50.87	74.00	-23.13	VERTICAL peak
6	9205.540	45.01	37.97	6.73	37.13	52.58	74.00	-21.42	VERTICAL peak

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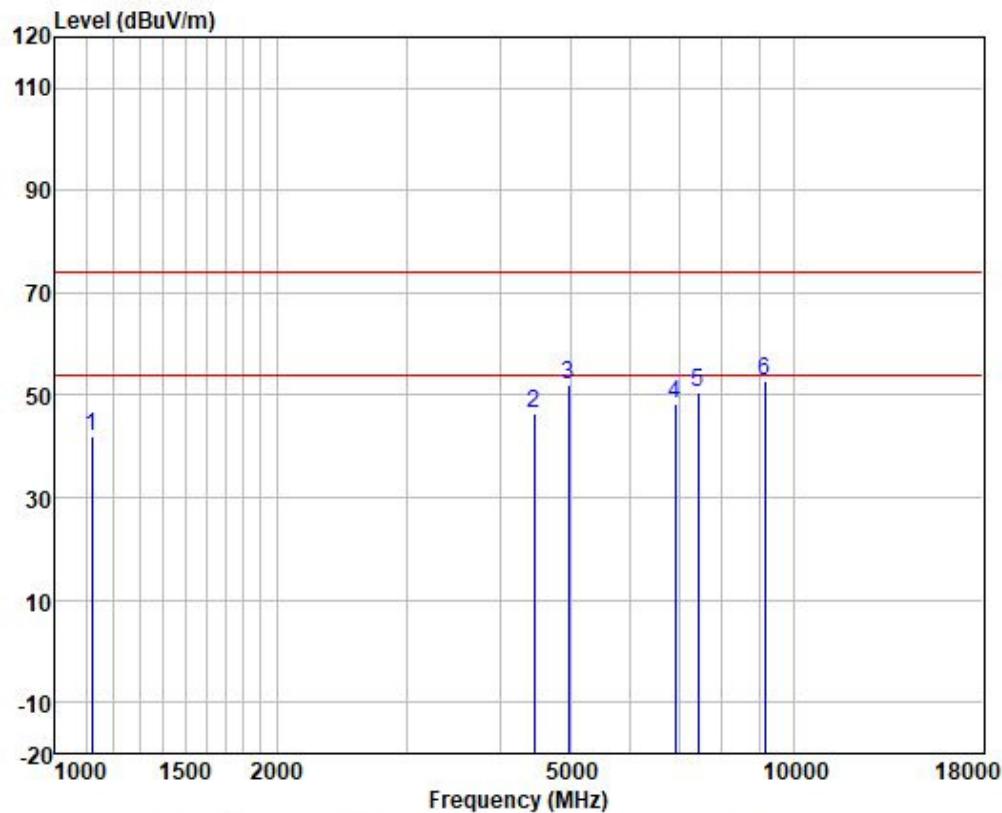
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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



Freq MHz	ReadAntenna 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 1122.563	55.79	22.75	2.29	38.73	42.10	74.00	-31.90	HORIZONTAL	peak
2 4456.315	45.32	34.00	4.61	37.45	46.48	74.00	-27.52	HORIZONTAL	peak
3 4960.000	50.45	34.15	4.89	37.32	52.17	74.00	-21.83	HORIZONTAL	peak
4 6914.763	44.66	34.97	5.84	37.14	48.33	74.00	-25.67	HORIZONTAL	peak
5 7440.000	45.23	36.33	6.02	37.18	50.40	74.00	-23.60	HORIZONTAL	peak
6 9152.479	45.34	37.85	6.68	37.13	52.74	74.00	-21.26	HORIZONTAL	peak

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7.5 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

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 54.8 % RH Atmospheric Pressure: 1013 mbar

7.5.2 Test Mode Description

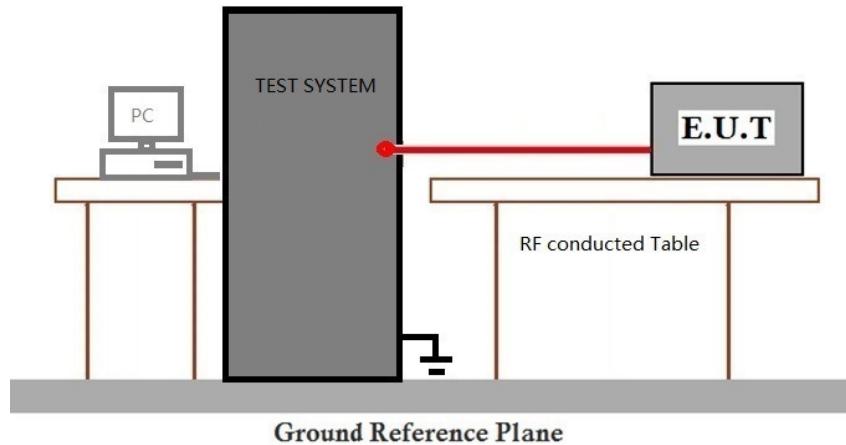
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.



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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

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7.6 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

7.6.1 E.U.T. Operation

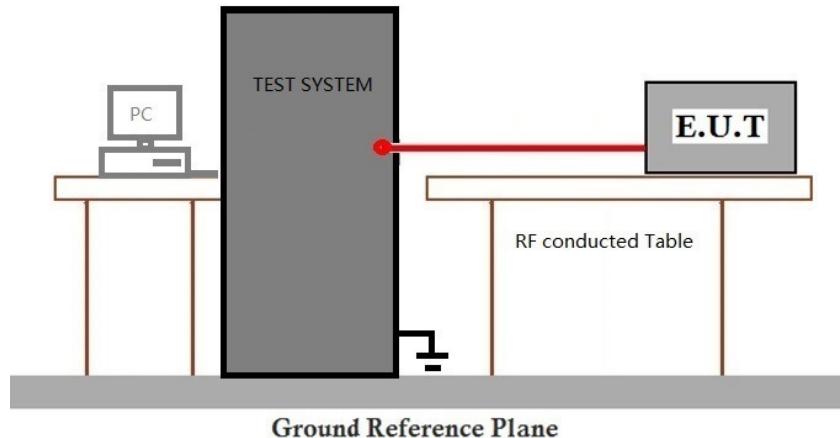
Operating Environment:

Temperature: 22.2 °C Humidity: 54.8 % RH Atmospheric Pressure: 1013 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 for M1.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.7 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

7.7.1 E.U.T. Operation

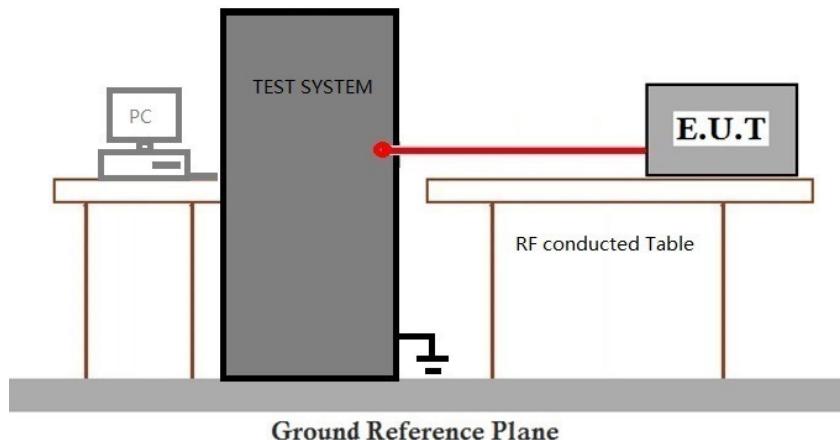
Operating Environment:

Temperature: 22.2 °C Humidity: 54.8 % RH Atmospheric Pressure: 1013 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 for M1.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 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)).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 54.8 % RH Atmospheric Pressure: 1013 mbar

7.8.2 Test Mode Description

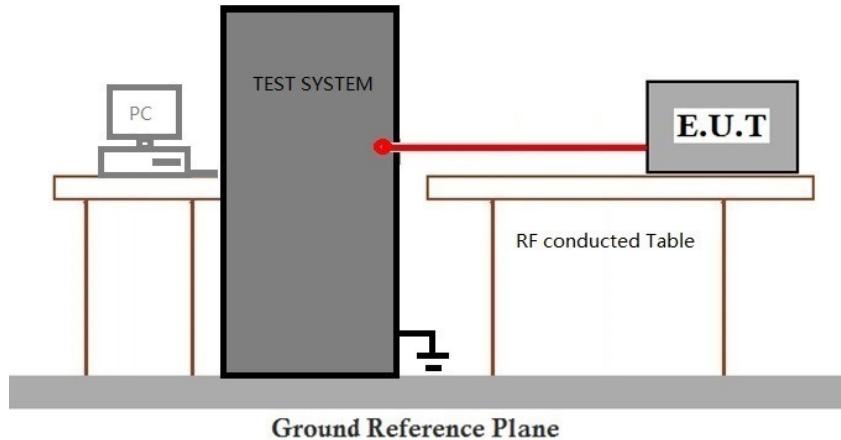
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.



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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 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)).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 54.8 % RH Atmospheric Pressure: 1013 mbar

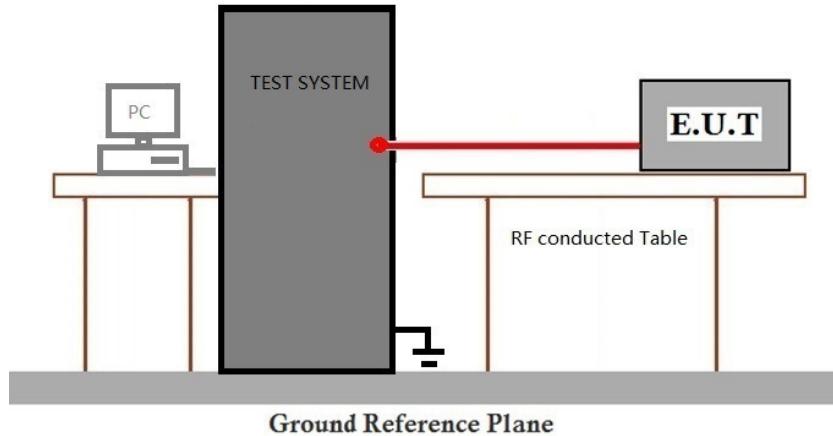
7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.
Final test	01	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for M1.



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7.9.3 Test Setup Diagram**7.9.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR241100137202



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2411001372HS



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