

TEST REPORT

Application No.:	GZCR2401000114HS
Applicant:	DOREL JUVENILE GROUP
Address of Applicant:	2525 State Street Columbus, Indiana, 47201-7494, United States
Manufacturer:	DOREL JUVENILE GROUP
Address of Manufacturer:	2525 State Street Columbus, Indiana, 47201-7494, United States
Factory:	SUZHOU LUCKY INTELLIGENT TECHNOLOGY CO., LTD
Address of Factory:	NO.3-4 BUILDING, NO.78 YANGJIA ROAD, LUJIA TOWN, KUNSHAN, JIANGSU, CHINA
Product Name:	Starling Smart Bassinet
Model No.:	BT099HCV, BT099HDF ♣
♣	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark:	MAXI-COSI
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2024-01-30
Date of Test:	2024-02-21 to 2024-04-16
Date of Issue:	2024-05-15

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



Ricky Liu
Manager

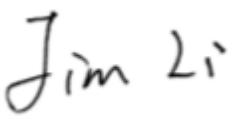
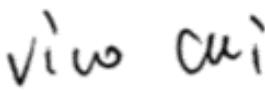


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Revision Record			
Version	Report No.	Date	Remark
01	GZCR240100011402	2024-05-15	Original

Authorized for issue by:			
		 _____ Jim Li/Project Engineer	
		 _____ Vico Cui/Reviewer	



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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
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	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 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

**: The EUT passed Radiated Spurious Emissions Below 1GHz test after modifications.

Note:

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

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

Declaration of EUT Family Grouping:

Model No.: BT099HCV, BT099HDF

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on fabric color.

Therefore, only one model BT099HCV was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5 V powered by AC/DC adapter as below:
	Model: MYX-0501500LUS
	Input: AC 100-240 V, 50/60Hz, 0.5A max
	Output: DC 5 V, 1.5 A
	Test Voltage: AC 120 V, 60 Hz
Cable(s):	For main unit: DC input ports For AC/DC adapter: AC plug; DC output cables (Unshielded, 1.4m)
Antenna Number:	2 (one for BT and BLE, the other for 2.4G/5GHz Wi-Fi)
For 2.4GHz Wi-Fi	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK); 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20): 11; 802.11n(HT40): 7
Channel Spacing:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	4.43 dBi according to antenna specification
For BLE	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 LE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	3.11 dBi according to antenna specification

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



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m); ±4.38dB (30MHz-1GHz; 10m); ± 5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
Radiated Spurious Emissions Above 1GHz	±5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)
Remark:	<p>The U_{lab} (lab Uncertainty) is less than U_{ETSI} (ETSI Uncertainty), so the test results</p> <ul style="list-style-type: none"> – 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,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
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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

The EUT passed Radiated Spurious Emissions Below 1GHz test after modifications.

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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	2023-08-04	2024-08-03
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	2023-09-08	2024-09-07
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2023-05-19	2024-05-18
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Power Spectrum Density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A



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Conducted Band Edges Measurement

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Spurious Emissions

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-78	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	2023-11-10	2024-11-09
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14
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	2022-09-23	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	2023-08-23	2024-08-22
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2023-10-20	2024-10-19
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

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Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-03-22	2025-03-21
TRILOG Broadband Antenna (25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2023-06-14	2025-06-13
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	2023-11-10	2024-11-09
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14
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	2022-09-23	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	2023-11-10	2024-11-09
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2023-10-20	2024-10-19
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

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2023-06-11	2024-06-10



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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 4.43 dBi for 2.4G/5GHz Wi-Fi and 3.11 dBi for BLE.

Antenna location: Refer to internal photo.



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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: 23.3 °C Humidity: 54.2 % RH Atmospheric Pressure: 1014 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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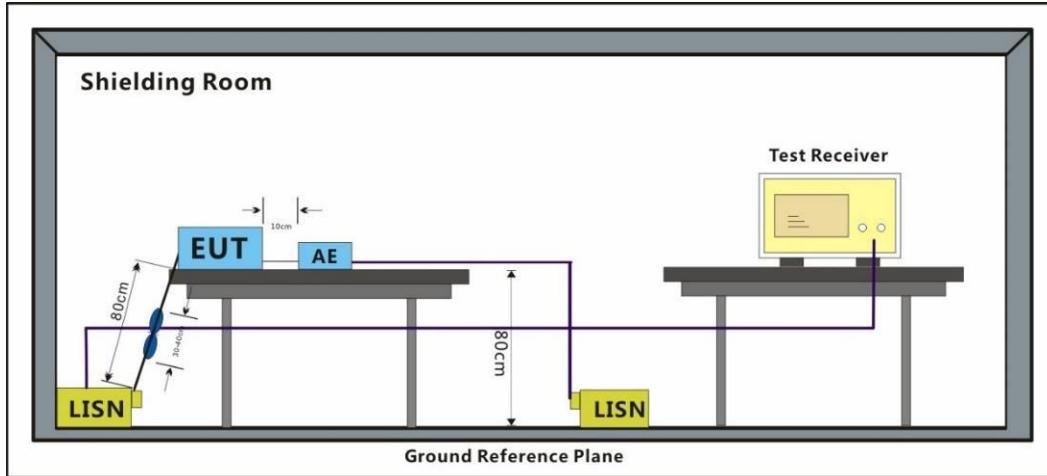
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7.1.3 Test Setup Diagram



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/50µH + 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.

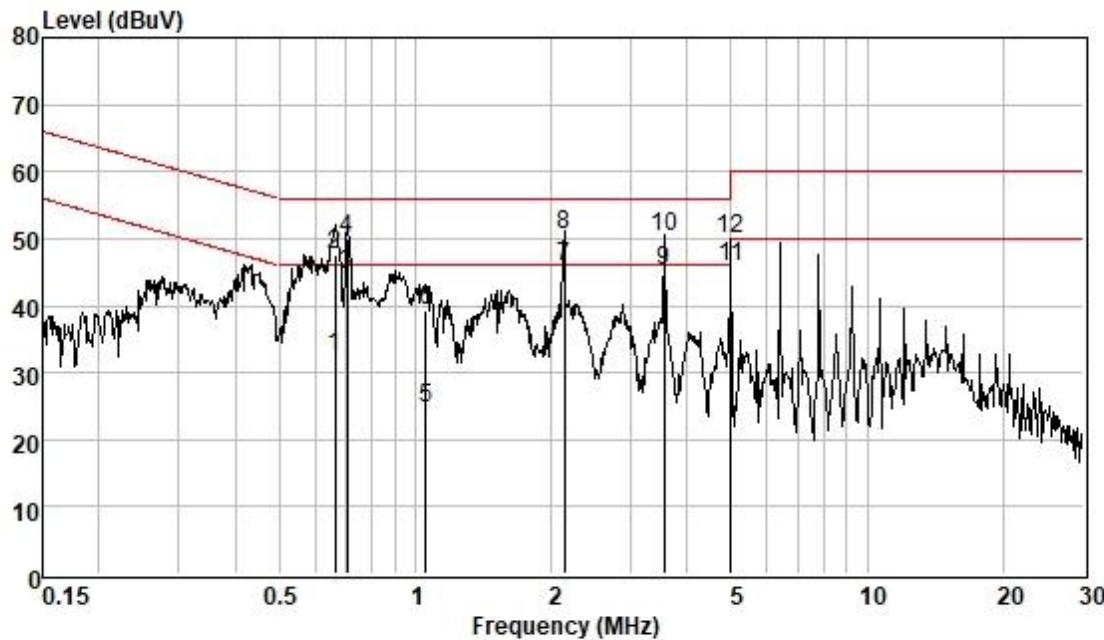
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 02; Line: Live line



Pol :LINE

Mode :

Model :

Power :

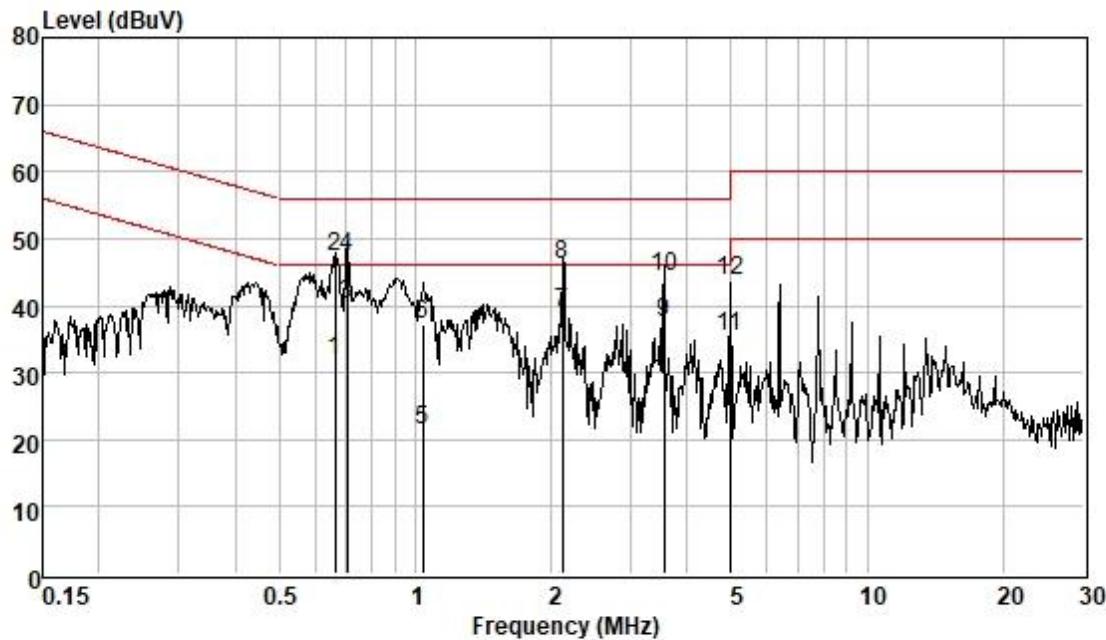
Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark	
							Over Limit dB	Remark
1 0.665	22.68	0.06	9.57	32.31	46.00	-13.69		Average
2 0.665	37.81	0.06	9.57	47.44	56.00	-8.56		QP
3 0.708	34.91	0.06	9.57	44.54	46.00	-1.46		Average
4 0.708	40.19	0.06	9.57	49.82	56.00	-6.18		QP
5 1.054	15.02	0.07	9.57	24.66	46.00	-21.34		Average
6 1.054	29.73	0.07	9.57	39.37	56.00	-16.63		QP
7 2.133	36.06	0.13	9.57	45.76	46.00	-0.24		Average
8 2.133	40.80	0.13	9.57	50.50	56.00	-5.50		QP
9 3.547	35.37	0.17	9.59	45.13	46.00	-0.87		Average
10 3.547	40.54	0.17	9.59	50.30	56.00	-5.70		QP
11 4.978	35.88	0.20	9.63	45.71	46.00	-0.29		Average
12 4.978	40.09	0.20	9.63	49.92	56.00	-6.08		QP



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Test Mode: 02; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Power :

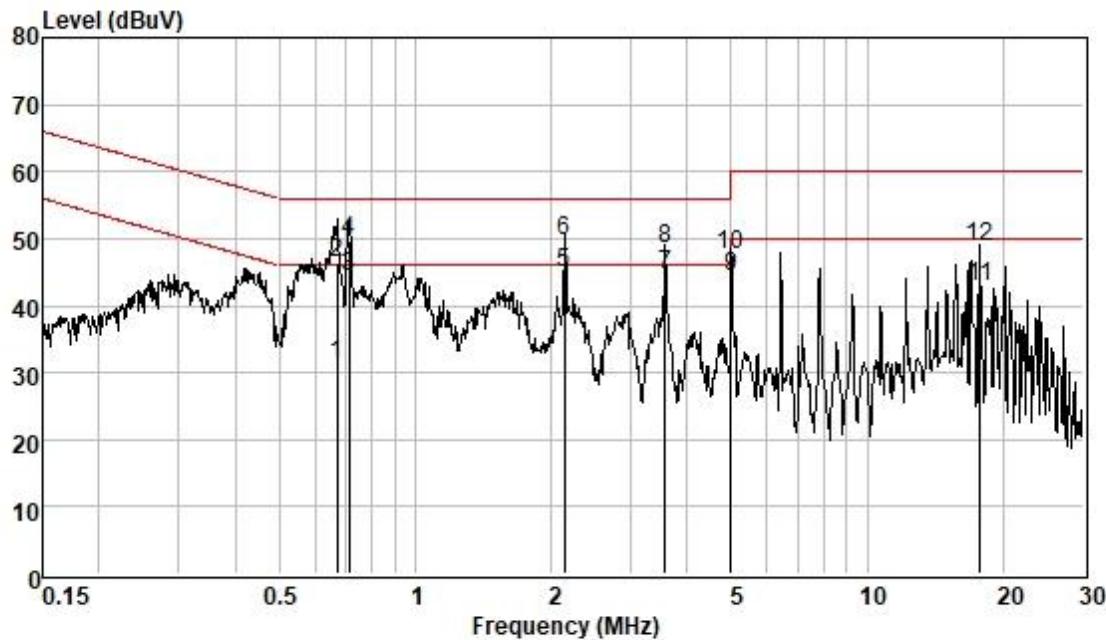
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.665	22.19	0.06	9.55	31.80	46.00	-14.20	Average
2	0.665	37.74	0.06	9.55	47.35	56.00	-8.65	QP
3	0.708	30.48	0.06	9.55	40.09	46.00	-5.91	Average
4	0.708	37.81	0.06	9.55	47.42	56.00	-8.58	QP
5	1.037	11.78	0.07	9.55	21.40	46.00	-24.60	Average
6	1.037	27.70	0.07	9.55	37.32	56.00	-18.68	QP
7	2.121	29.29	0.13	9.55	38.97	46.00	-7.03	Average
8	2.121	36.30	0.13	9.55	45.98	56.00	-10.02	QP
9	3.547	27.59	0.17	9.58	37.34	46.00	-8.66	Average
10	3.547	34.59	0.17	9.58	44.34	56.00	-11.66	QP
11	4.952	25.65	0.19	9.63	35.47	46.00	-10.53	Average
12	4.952	33.91	0.19	9.63	43.73	56.00	-12.27	QP



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Test Mode: 04; Line: Live line



Pol :LINE

Mode :

Model :

Power :

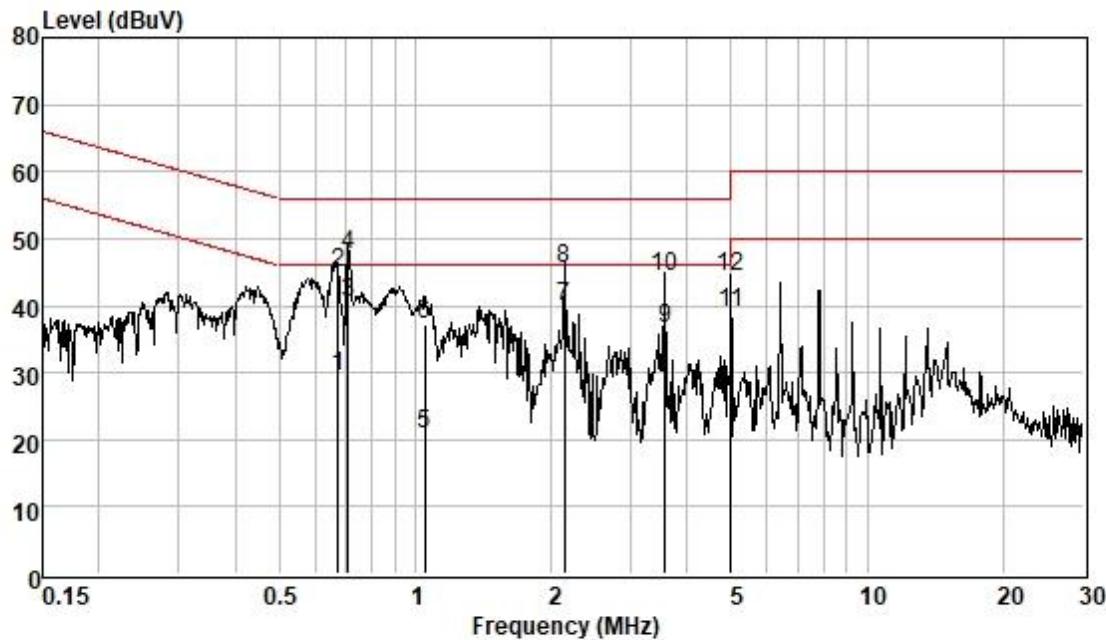
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.672	21.51	0.06	9.57	31.14	46.00	-14.86	Average
2	0.672	36.78	0.06	9.57	46.41	56.00	-9.59	QP
3	0.716	34.73	0.06	9.57	44.36	46.00	-1.64	Average
4	0.716	39.94	0.06	9.57	49.57	56.00	-6.43	QP
5	2.133	35.11	0.13	9.57	44.81	46.00	-1.19	Average
6	2.133	39.97	0.13	9.57	49.67	56.00	-6.33	QP
7	3.565	34.98	0.17	9.59	44.74	46.00	-1.26	Average
8	3.565	38.86	0.17	9.59	48.62	56.00	-7.38	QP
9	4.978	34.49	0.20	9.63	44.32	46.00	-1.68	Average
10	4.978	37.79	0.20	9.63	47.62	56.00	-8.38	QP
11	17.755	32.75	0.36	9.86	42.97	50.00	-7.03	Average
12	17.755	38.43	0.36	9.86	48.65	60.00	-11.35	QP



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Test Mode: 04; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.675	19.92	0.06	9.55	29.53	46.00	-16.47	Average
2	0.675	35.41	0.06	9.55	45.02	56.00	-10.98	QP
3	0.712	30.73	0.06	9.55	40.34	46.00	-5.66	Average
4	0.712	37.91	0.06	9.55	47.52	56.00	-8.48	QP
5	1.049	11.26	0.07	9.55	20.88	46.00	-25.12	Average
6	1.049	27.51	0.07	9.55	37.13	56.00	-18.87	QP
7	2.133	30.16	0.13	9.55	39.84	46.00	-6.16	Average
8	2.133	35.85	0.13	9.55	45.53	56.00	-10.47	QP
9	3.565	26.70	0.17	9.58	36.45	46.00	-9.55	Average
10	3.565	34.56	0.17	9.58	44.31	56.00	-11.69	QP
11	4.978	29.07	0.20	9.63	38.90	46.00	-7.10	Average
12	4.978	34.43	0.20	9.63	44.26	56.00	-11.74	QP



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7.2 Conducted Peak Output Power

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

Test Method: ANSI C63.10 (2013) Section 11.9.2

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 50.7 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

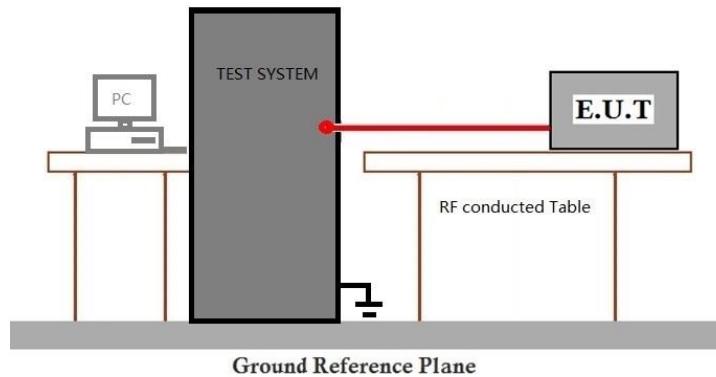
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.2.3 Test Setup Diagram



7.2.4 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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7.3 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

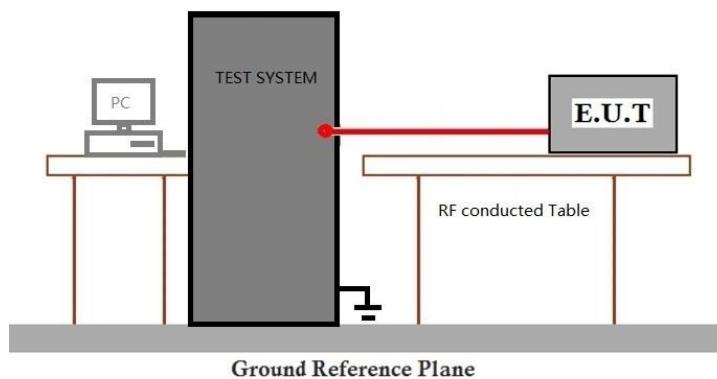
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 21.9 °C Humidity: 50.7 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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7.4 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

7.4.1 E.U.T. Operation

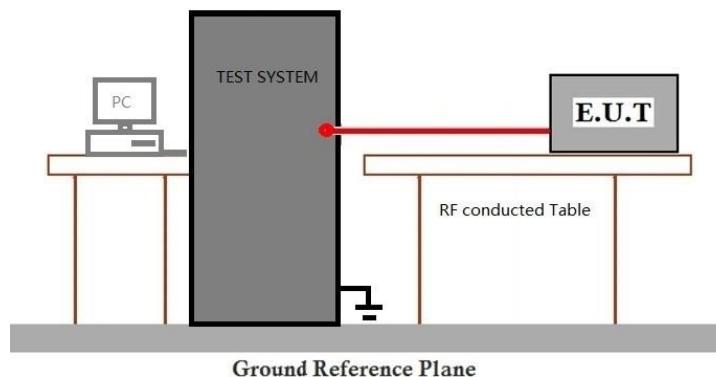
Operating Environment:

Temperature: 21.9 °C Humidity: 50.7 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 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)).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 50.7 % RH Atmospheric Pressure: 1020 mbar

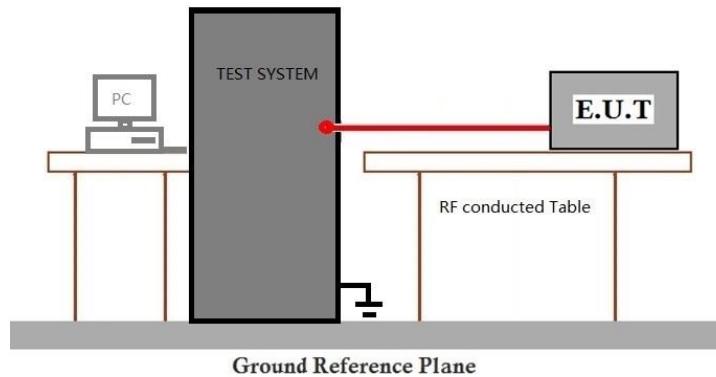
7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.5.3 Test Setup Diagram**7.5.4 Measurement Procedure and Data**

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7.6 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)).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 50.7 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

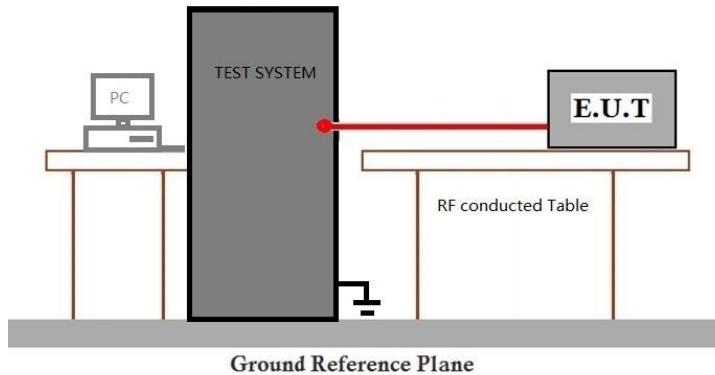
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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7.7 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 19.3 °C Humidity: 56.5 % RH Atmospheric Pressure: 1020 mbar

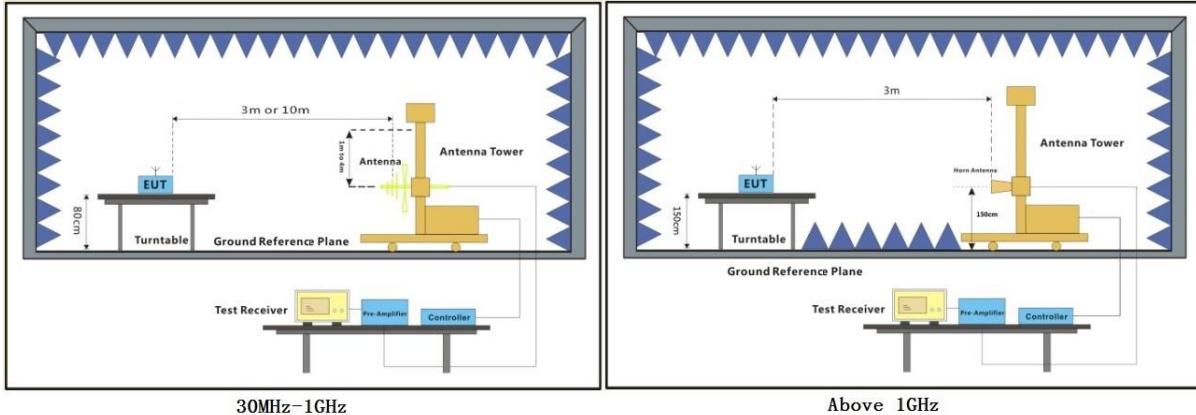
7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.7.3 Test Setup Diagram**7.7.4 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.
- 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.
- 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 peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest 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

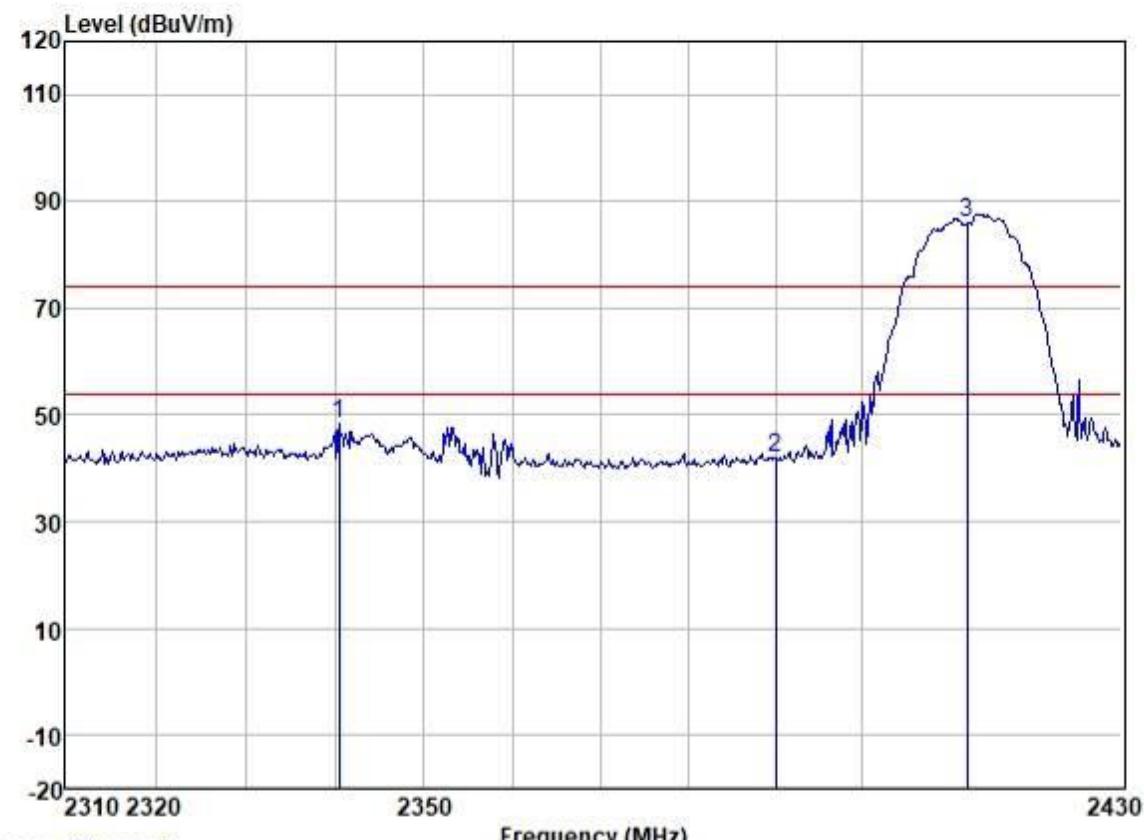
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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



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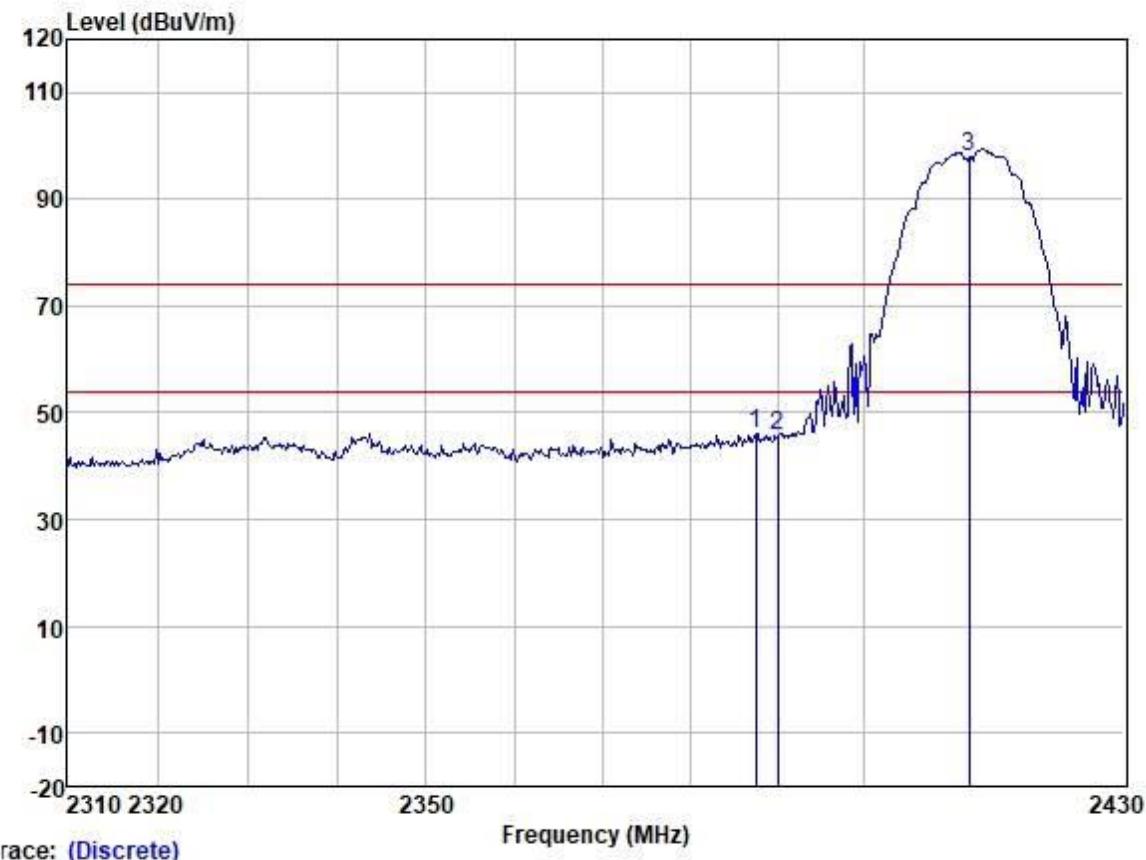
Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

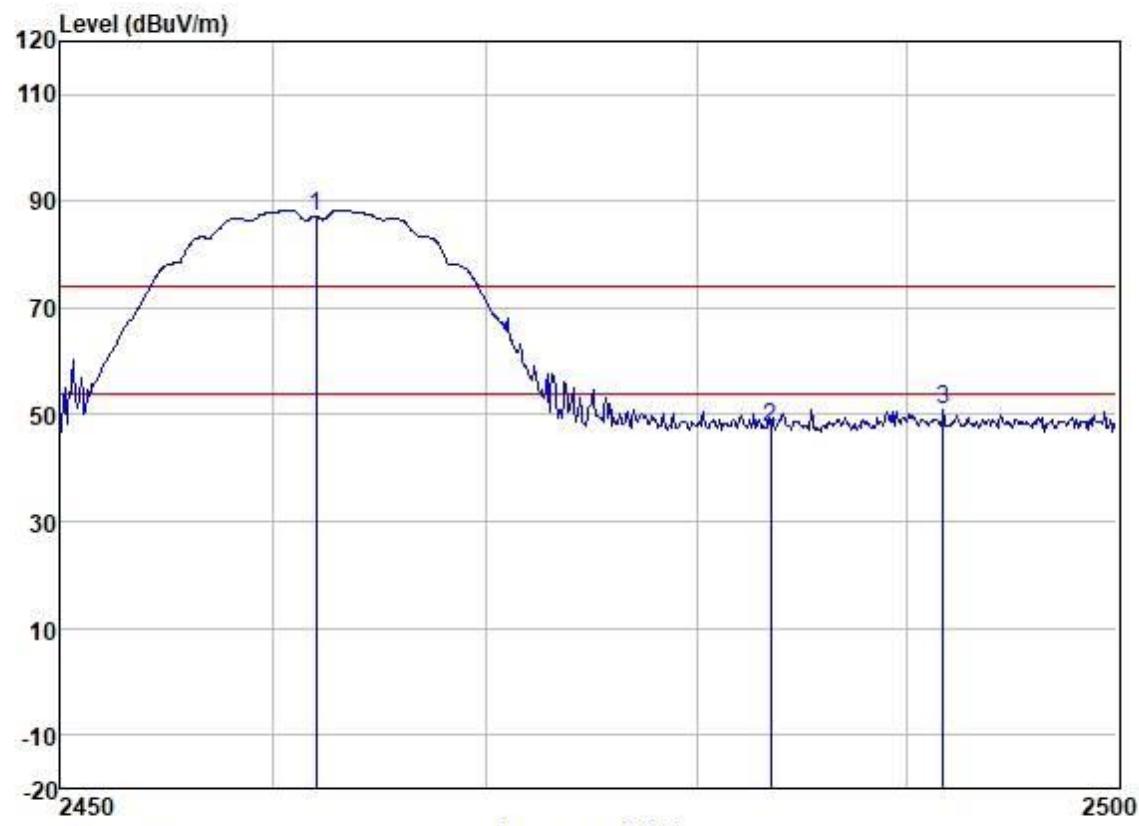


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 * 2462.000	92.79	27.82	3.81	37.20	87.22	74.00	13.22 VERTICAL peak
2 2483.500	53.27	27.85	3.82	37.19	47.75	74.00	-26.25 VERTICAL peak
3 2491.680	56.34	27.86	3.83	37.19	50.84	74.00	-23.16 VERTICAL peak

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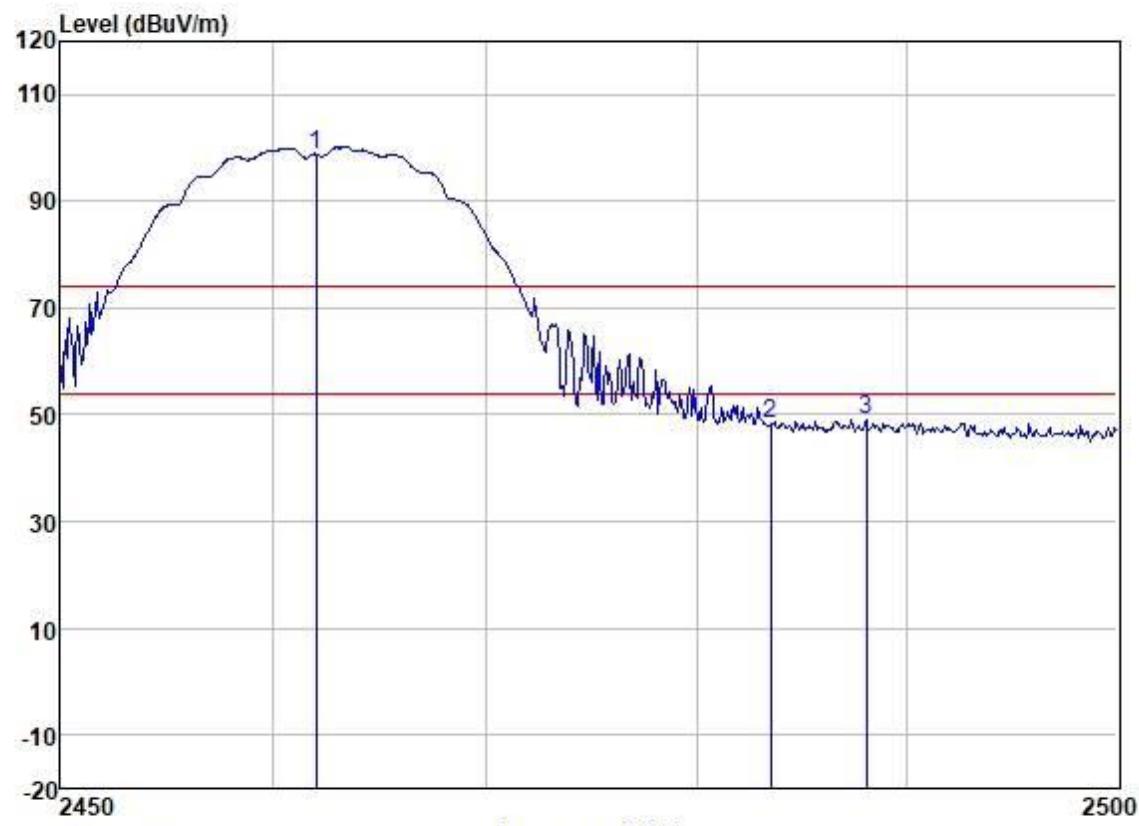


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Rate: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1 * 2462.000	104.46	27.82	3.81	37.20	98.89	74.00	24.89	HORIZONTAL	peak	
2 2483.500	53.73	27.85	3.82	37.19	48.21	74.00	-25.79	HORIZONTAL	peak	
3 2488.059	54.66	27.85	3.82	37.19	49.14	74.00	-24.86	HORIZONTAL	peak	

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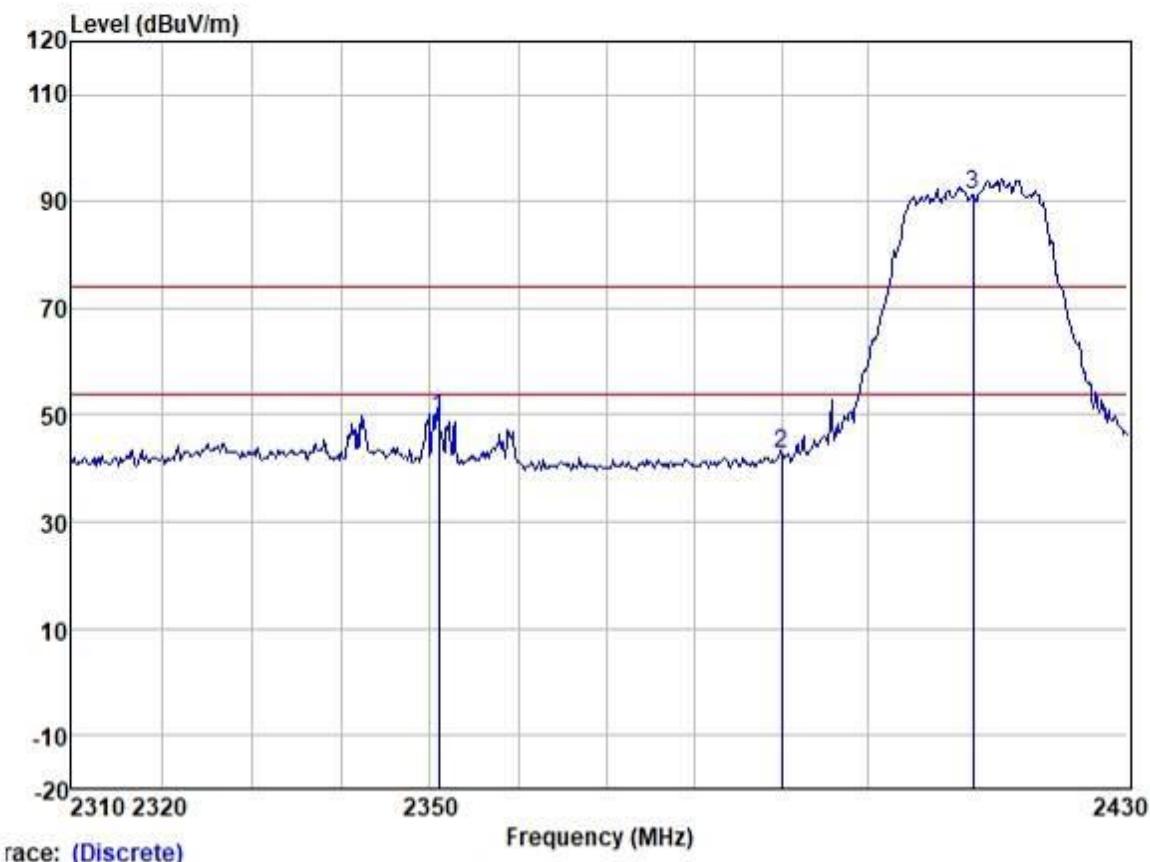
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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



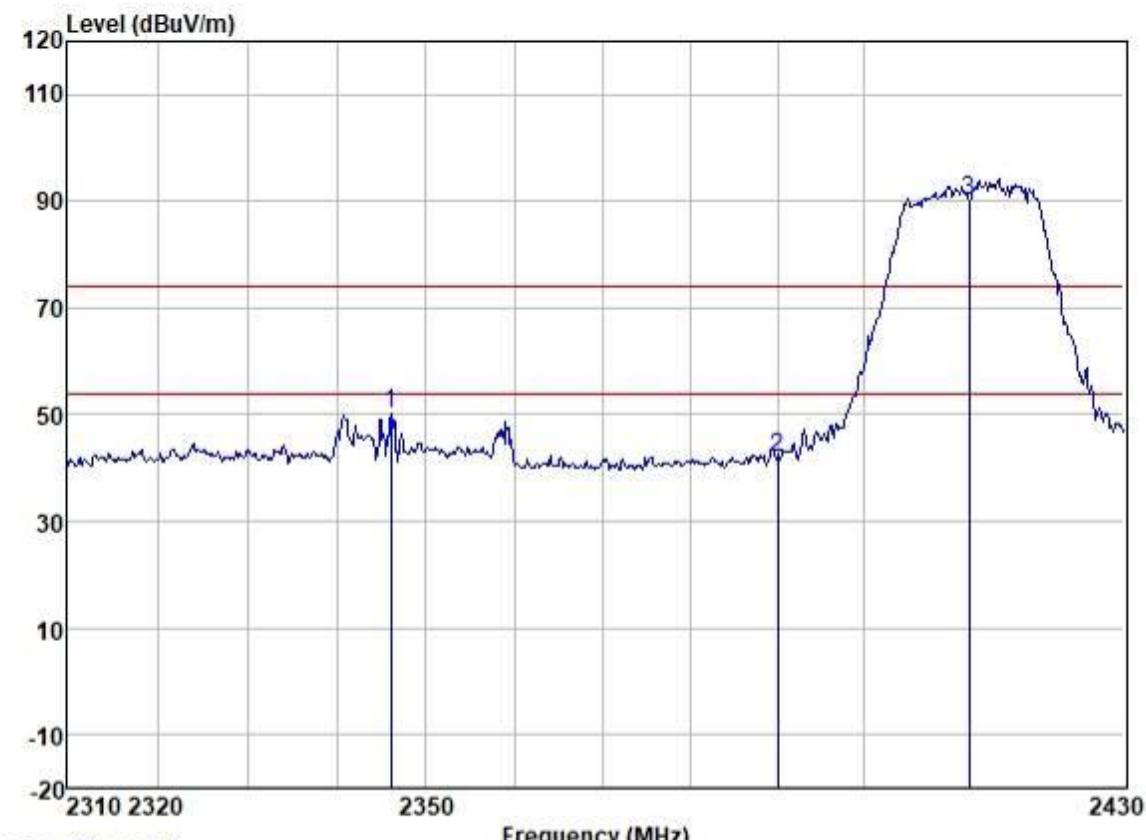
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	Line	dB		
1	2351.072	55.49	27.61	3.74	37.23	49.61	74.00	-24.39	VERTICAL	peak	
2	2390.000	48.30	27.68	3.77	37.21	42.54	74.00	-31.46	VERTICAL	peak	
3 *	2412.000	97.04	27.74	3.79	37.21	91.36	74.00	17.36	VERTICAL	peak	



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

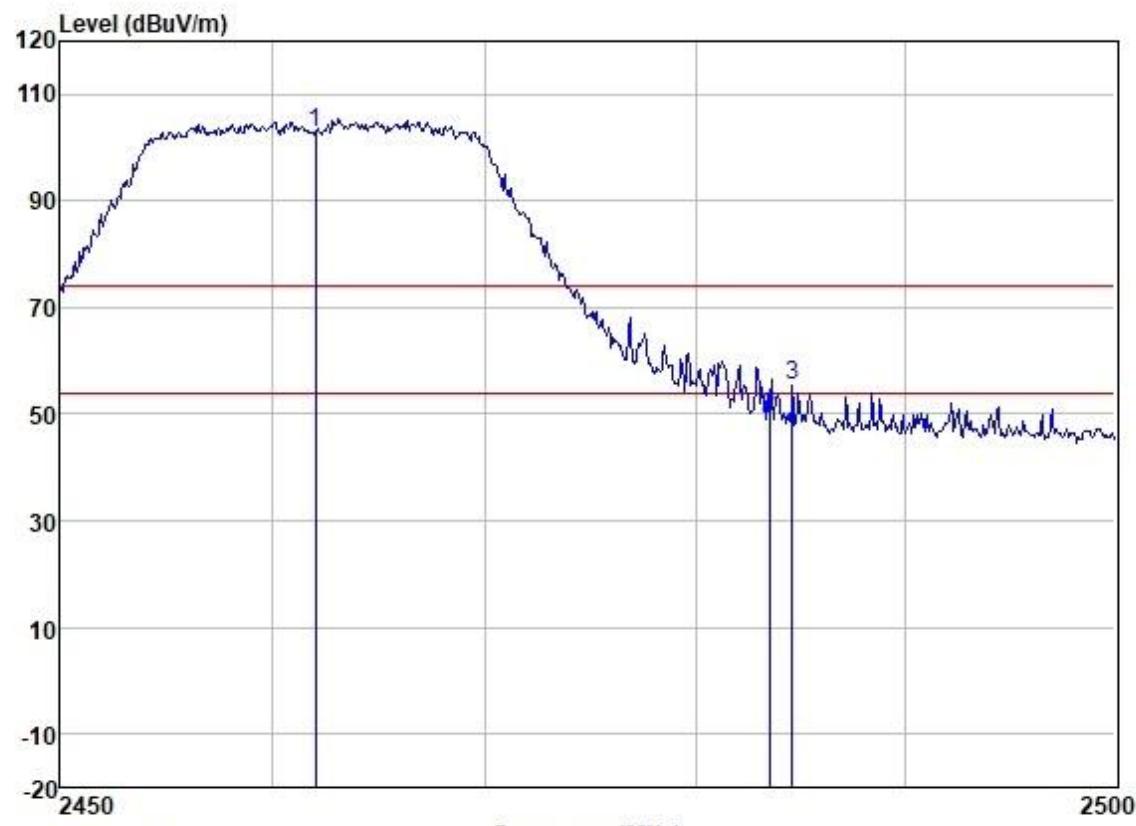


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Race: (Discrete)

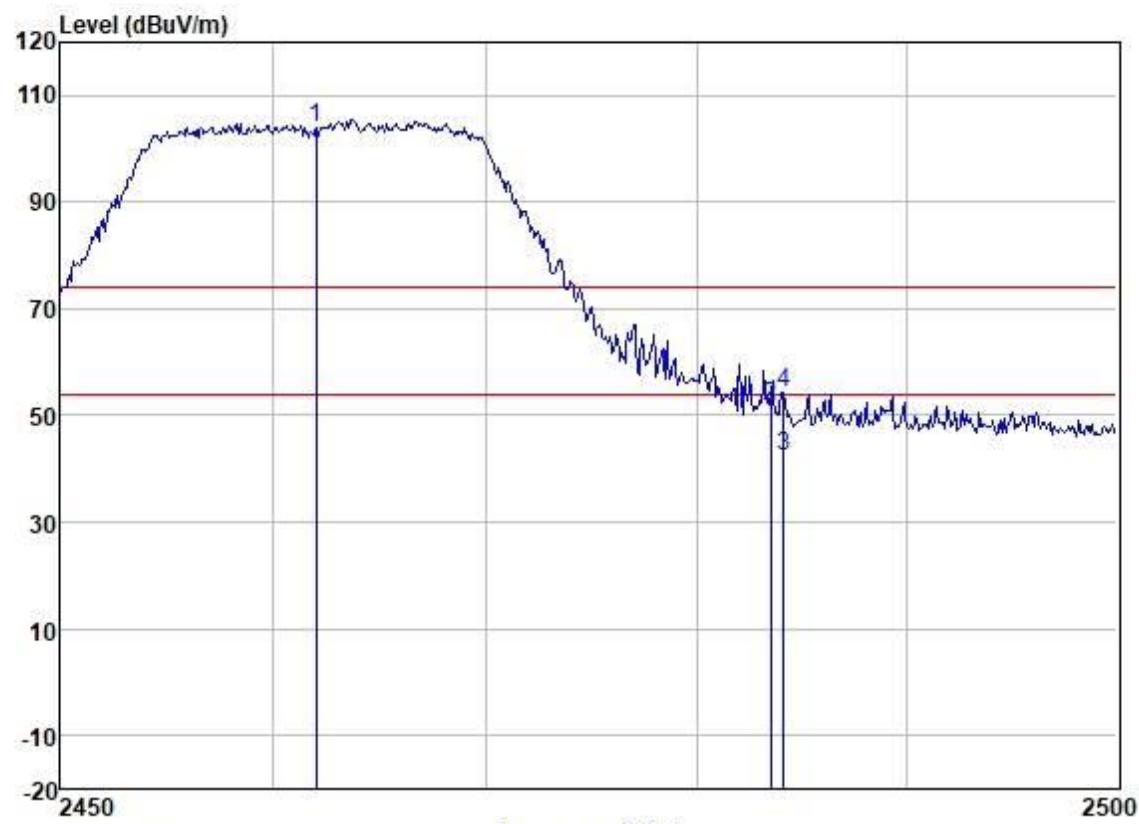
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB	
1 * 2462.000	108.45	27.82	3.81	37.20	102.88	74.00	28.88	VERTICAL	peak	
2 2483.500	54.79	27.85	3.82	37.19	49.27	74.00	-24.73	VERTICAL	peak	
3 2484.593	58.86	27.85	3.82	37.19	53.34	74.00	-20.66	VERTICAL	peak	



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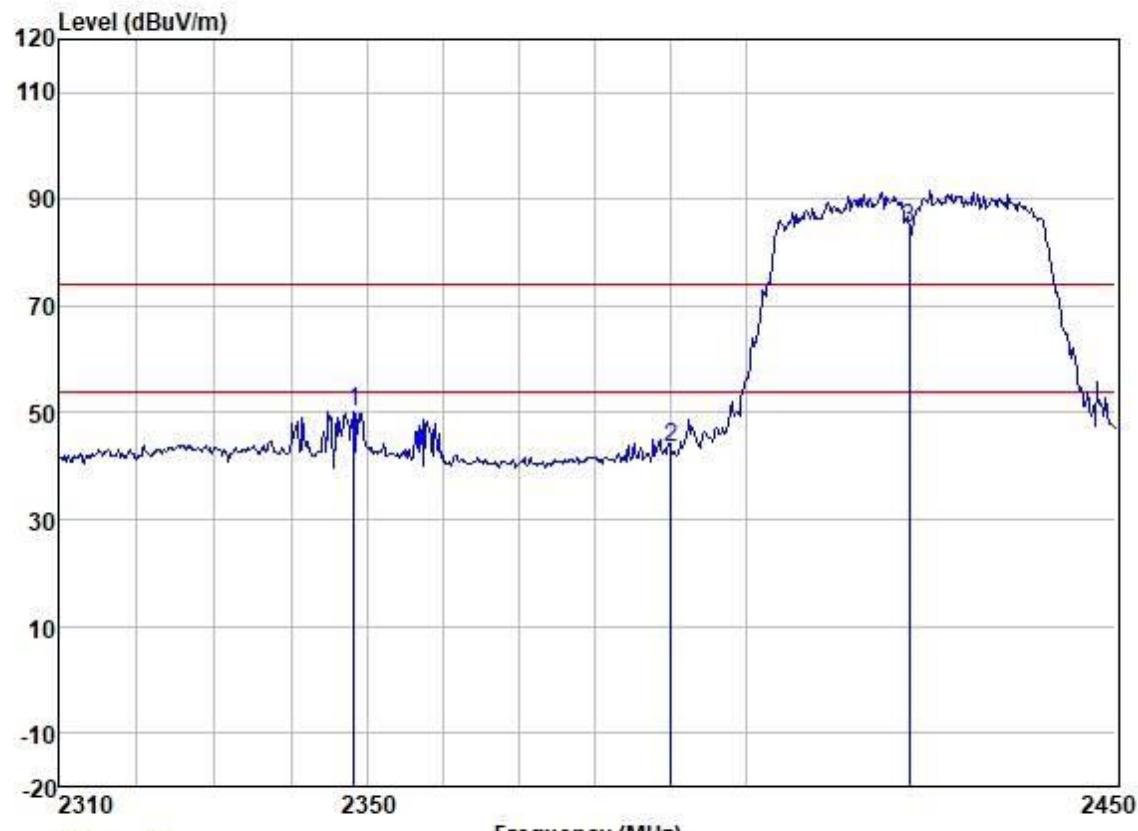
Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m				
1	2348.235	56.24	27.59	3.74	37.23	50.34	74.00	-23.66	VERTICAL	peak
2	2390.000	49.09	27.68	3.77	37.21	43.33	74.00	-30.67	VERTICAL	peak
3 *	2422.000	90.08	27.75	3.79	37.21	84.41	74.00	10.41	VERTICAL	peak

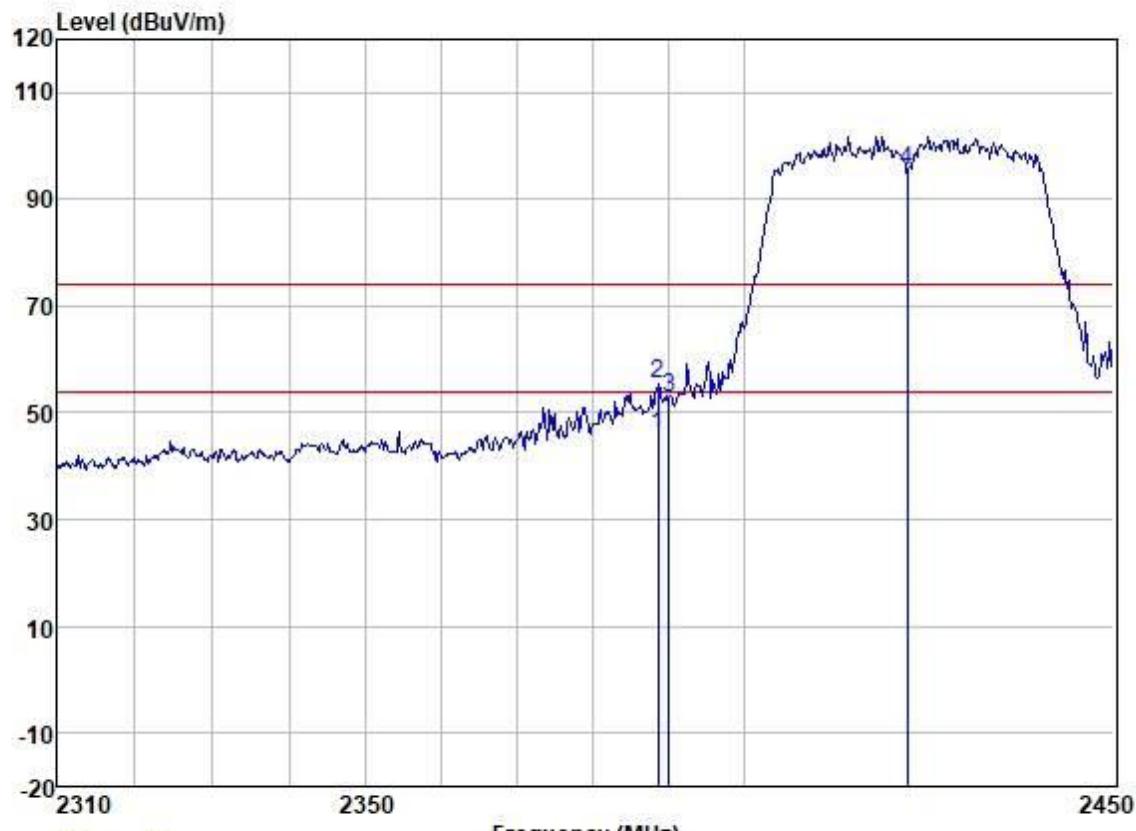
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Rate: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m				
1	2388.508	51.52	27.68	3.77	37.22	45.75	54.00	-8.25	HORIZONTAL	Average
2	2388.508	61.17	27.68	3.77	37.22	55.40	74.00	-18.60	HORIZONTAL	peak
3	2390.000	58.44	27.68	3.77	37.21	52.68	74.00	-21.32	HORIZONTAL	peak
4 *	2422.000	100.85	27.75	3.79	37.21	95.18	74.00	21.18	HORIZONTAL	peak

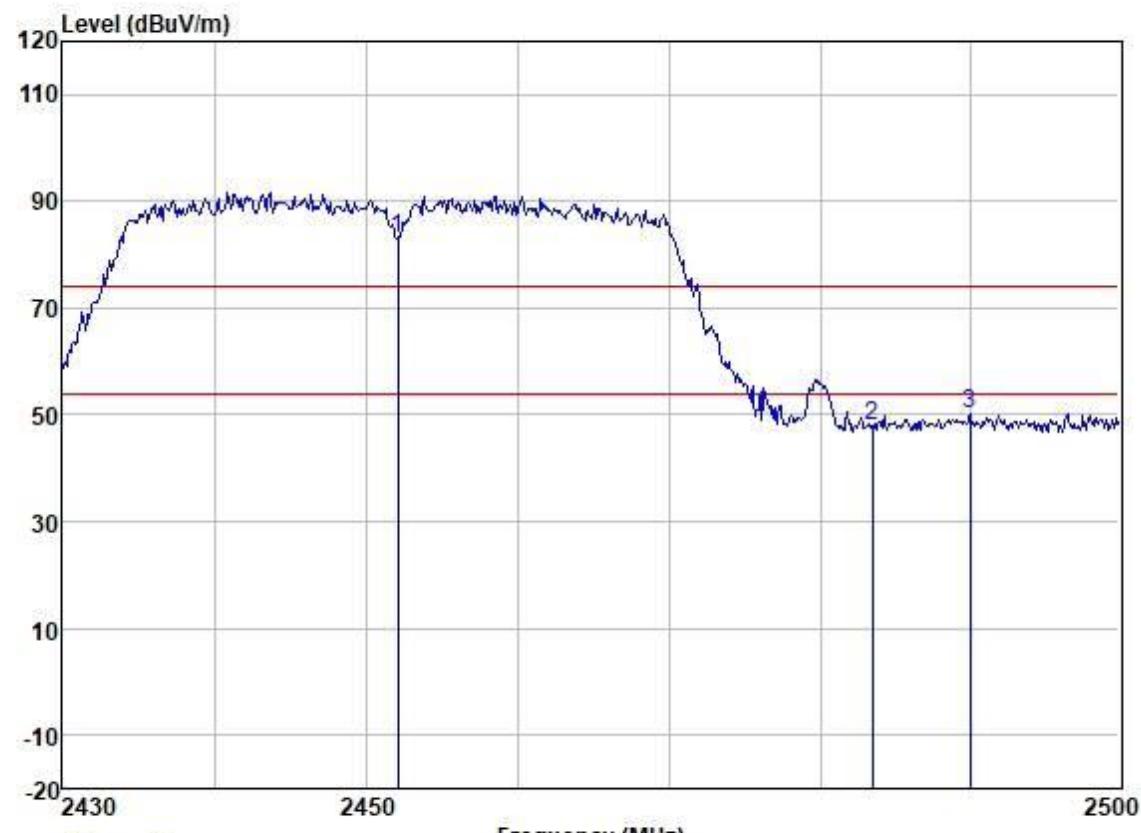


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Rate: (Discrete)

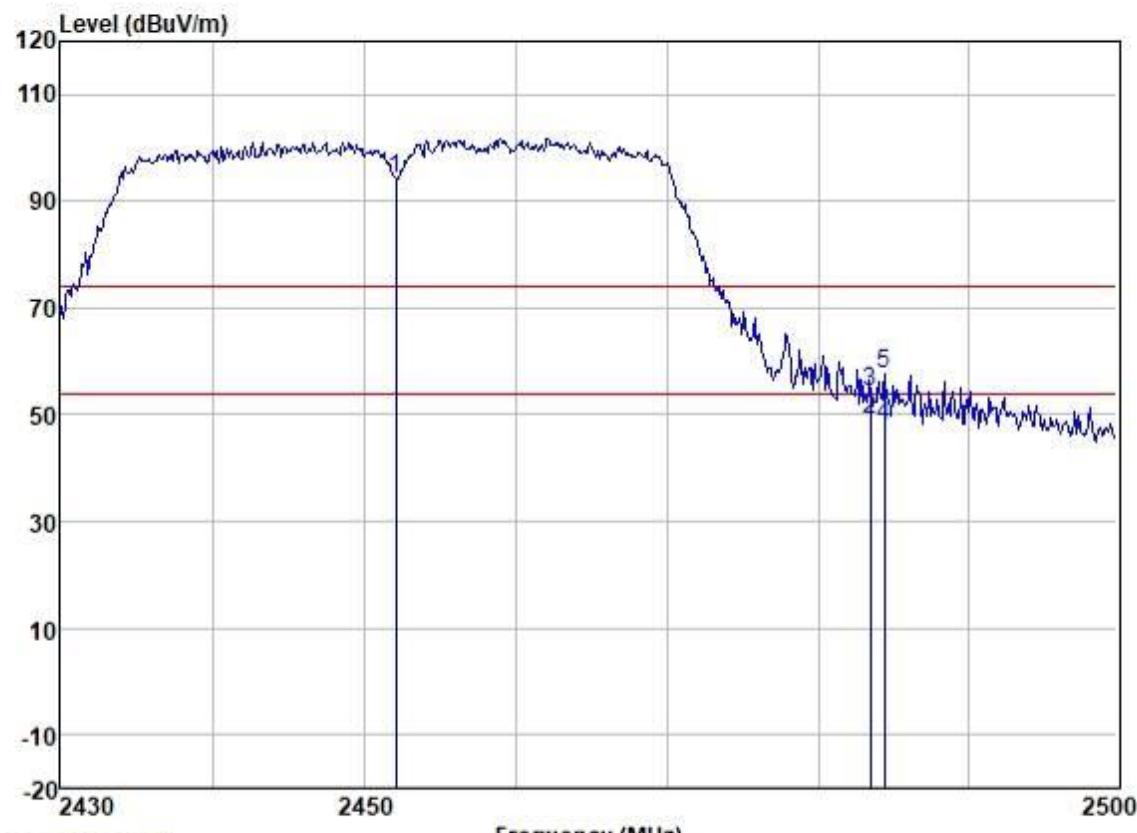
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB	
1 * 2452.000	88.78	27.80	3.81	37.20	83.19	74.00	9.19	VERTICAL	peak	
2 2483.500	53.57	27.85	3.82	37.19	48.05	74.00	-25.95	VERTICAL	peak	
3 2490.009	55.82	27.86	3.83	37.19	50.32	74.00	-23.68	VERTICAL	peak	



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Level	Line		
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		
1 * 2452.000	99.98	27.80	3.81	37.20	94.39	74.00	20.39	HORIZONTAL peak
2 2483.500	54.42	27.85	3.82	37.19	48.90	54.00	-5.10	HORIZONTAL Average
3 2483.500	59.71	27.85	3.82	37.19	54.19	74.00	-19.81	HORIZONTAL peak
4 2484.429	53.65	27.85	3.82	37.19	48.13	54.00	-5.87	HORIZONTAL Average
5 2484.429	63.14	27.85	3.82	37.19	57.62	74.00	-16.38	HORIZONTAL peak

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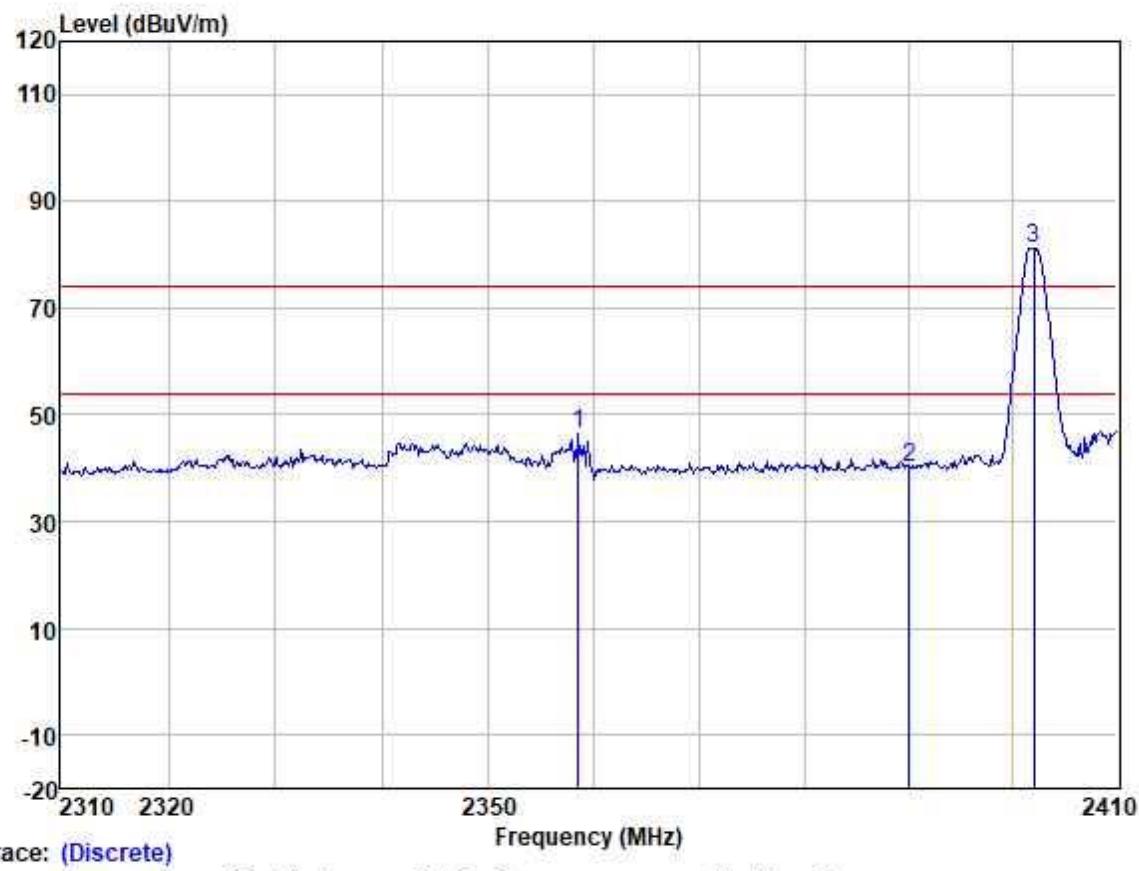
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB		
1	2358.470	52.50	27.62	3.75	37.23	46.64	74.00	-27.36	VERTICAL	peak	
2	2390.000	46.02	27.68	3.77	37.21	40.26	74.00	-33.74	VERTICAL	peak	
3	* 2402.000	86.79	27.71	3.78	37.21	81.07	74.00	7.07	VERTICAL	peak	

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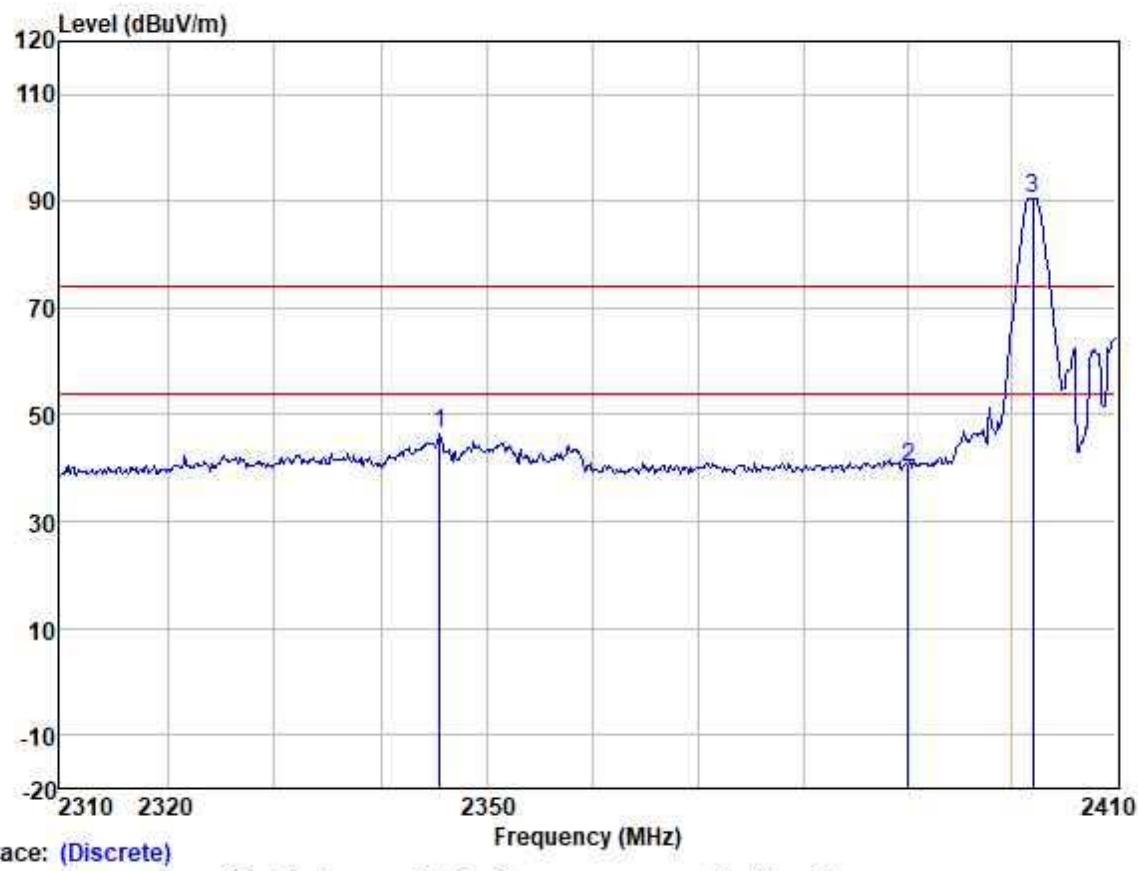


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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low

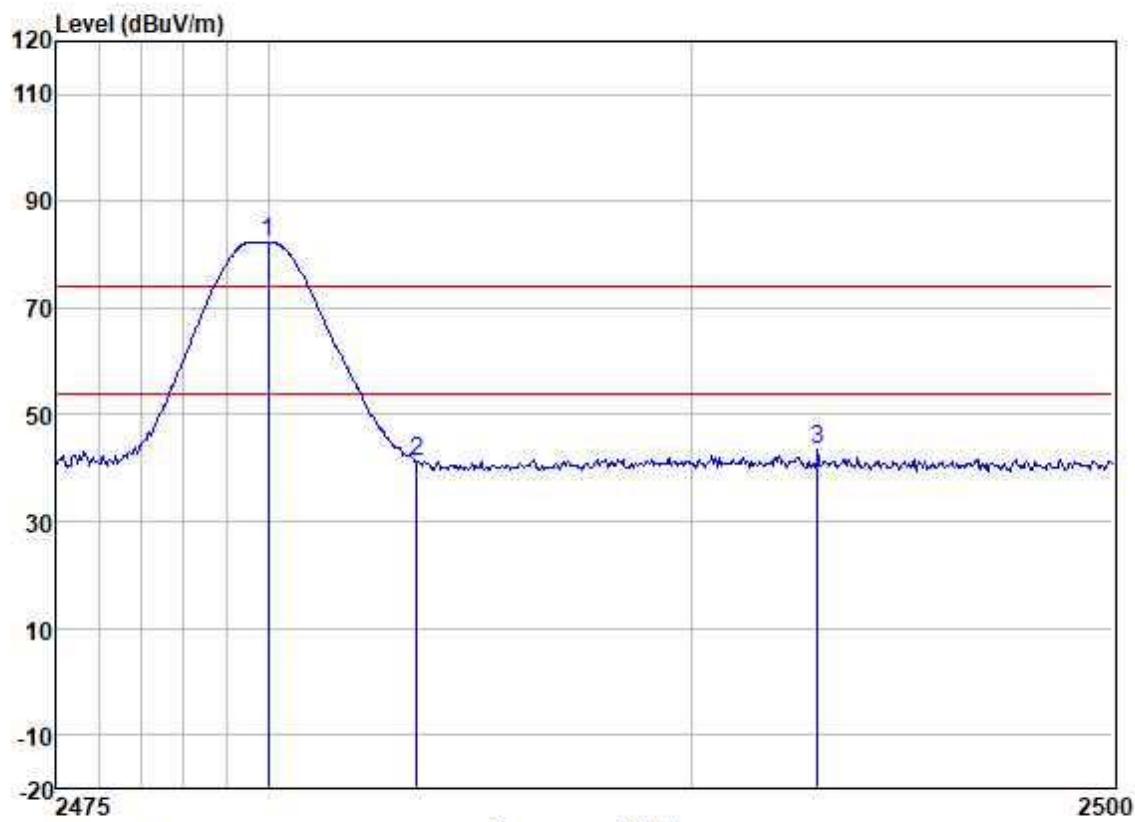


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t (86-20) 82155555 sgs.china@sgs.com

Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Over	Remark
	MHz	dBuV	Level	Factor						
1 * 2480.000	87.79	27.84	3.82	37.19	82.26	74.00	8.26	VERTICAL	peak	
2 2483.500	46.64	27.85	3.82	37.19	41.12	74.00	-32.88	VERTICAL	peak	
3 2492.975	49.01	27.86	3.83	37.18	43.52	74.00	-30.48	VERTICAL	peak	

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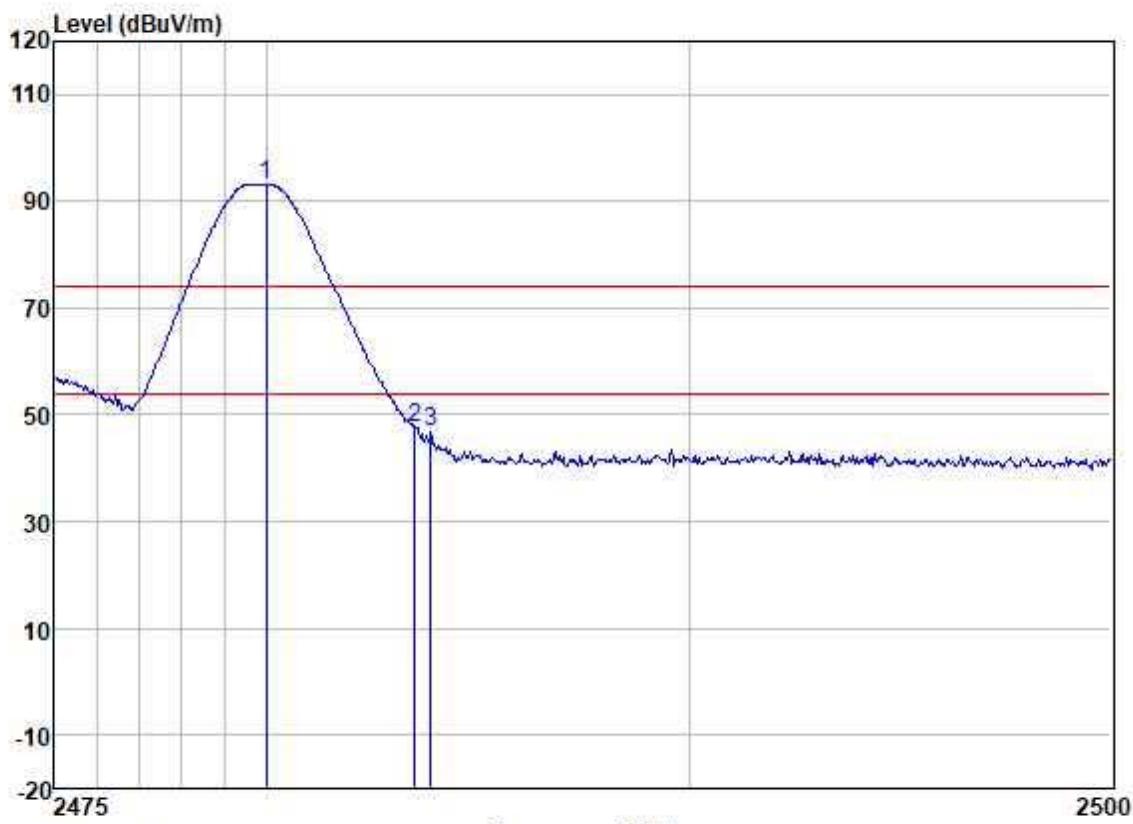
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB						
1 * 2480.000	98.55	27.84	3.82	37.19	93.02	74.00	19.02	HORIZONTAL	peak	
2 2483.500	53.21	27.85	3.82	37.19	47.69	74.00	-26.31	HORIZONTAL	peak	
3 2483.871	52.41	27.85	3.82	37.19	46.89	74.00	-27.11	HORIZONTAL	peak	

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7.8 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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 52.7 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

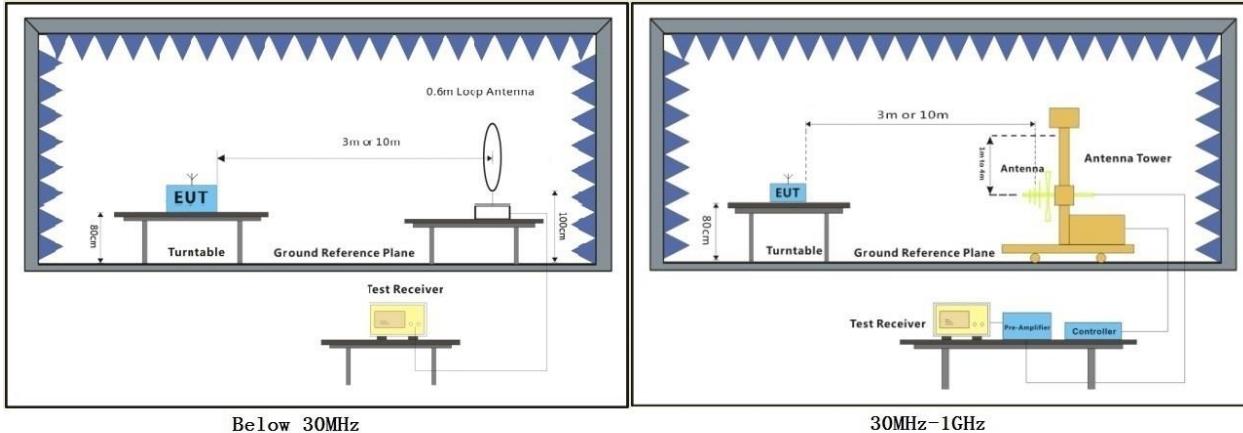
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.8.3 Test Setup Diagram



7.8.4 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:

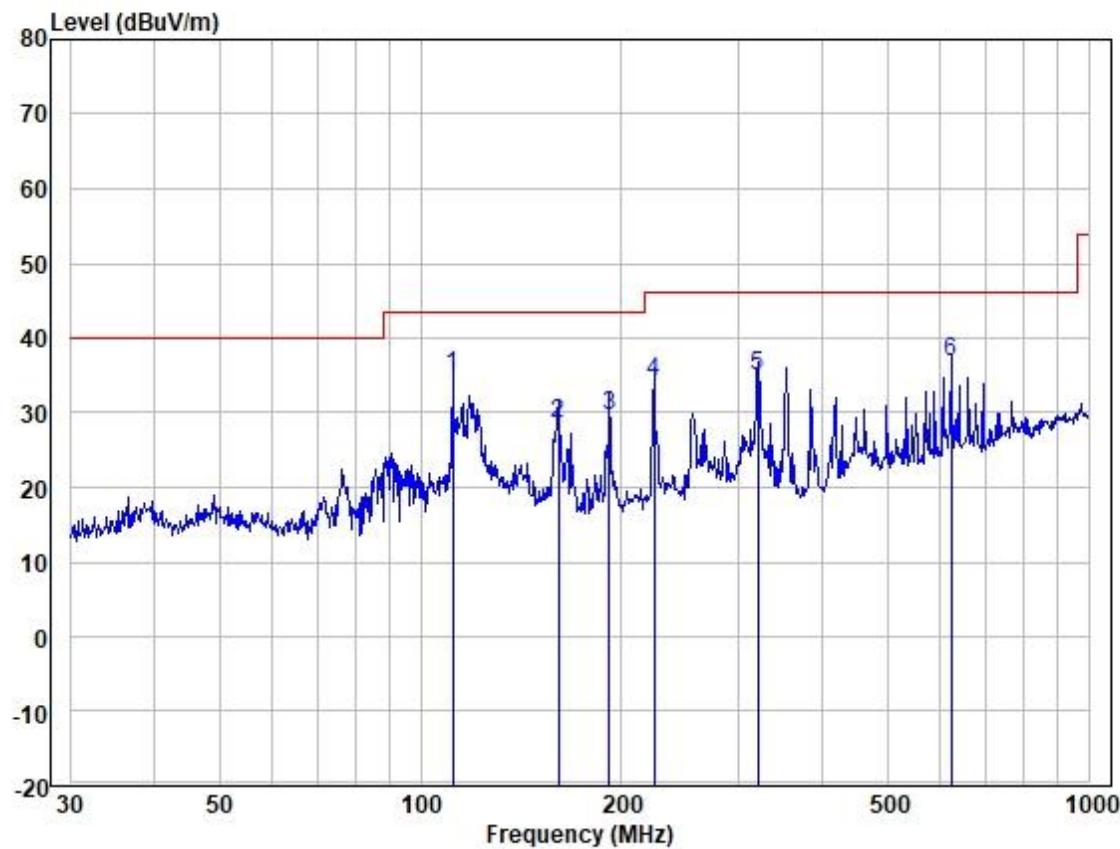
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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Test Mode: 02 & 04; Polarity: Horizontal



Site : 966 chamber
Job :
Model :
Power :
Test Mode : WIFI 2.4G

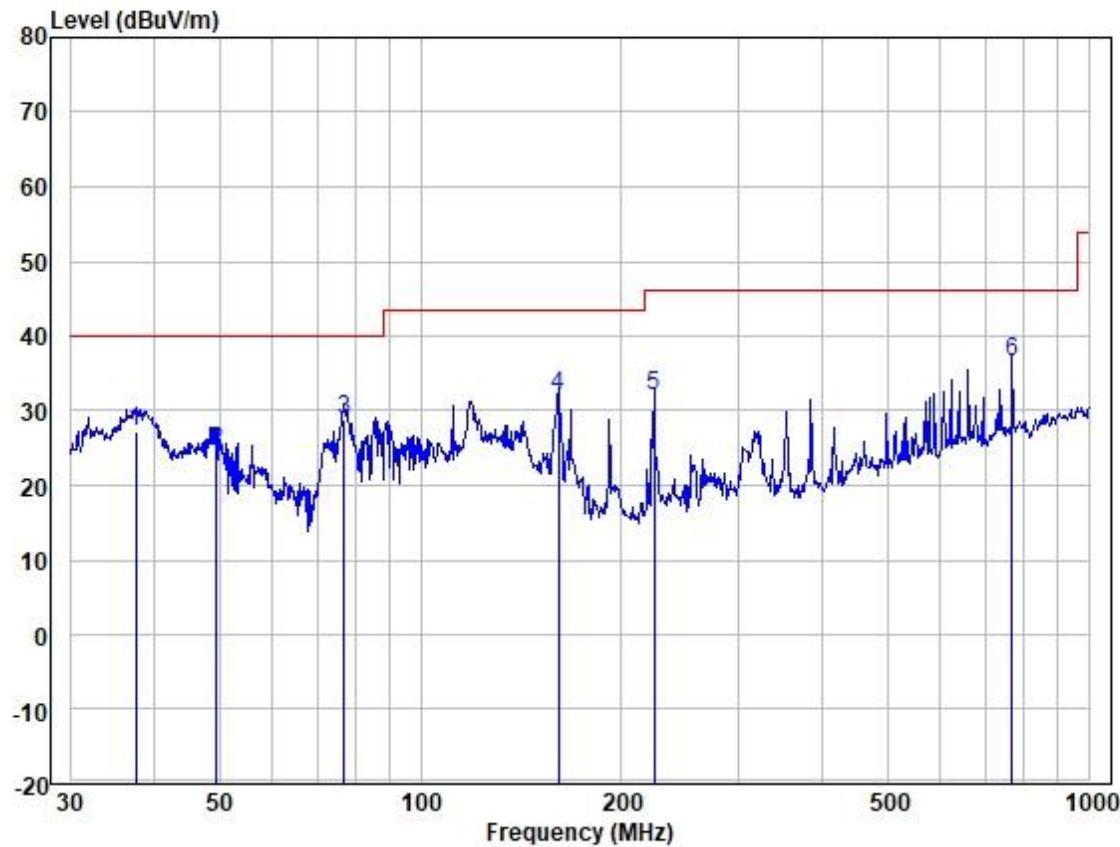
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 111.738	50.82	16.29	0.58	32.80	34.89	43.52	-8.63	HORIZONTAL	QP
2 160.909	41.45	19.18	0.70	32.80	28.53	43.52	-14.99	HORIZONTAL	QP
3 191.745	45.61	16.14	0.78	32.80	29.73	43.52	-13.79	HORIZONTAL	QP
4 223.733	50.20	15.90	0.82	32.80	34.12	46.02	-11.90	HORIZONTAL	QP
5 319.937	46.82	19.78	1.00	32.80	34.80	46.02	-11.22	HORIZONTAL	QP
6 622.890	42.00	26.15	1.44	32.87	36.72	46.02	-9.30	HORIZONTAL	QP



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Test Mode: 02 & 04; Polarity: Vertical



Site : 966 chamber
Job :
Model :
Power :
Test Mode : WIFI 2.4G

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	37.548	40.95	18.73	0.34	32.84	27.18	40.00	-12.82	VERTICAL QP
2	49.533	37.41	19.53	0.39	32.80	24.53	40.00	-15.47	VERTICAL QP
3	76.781	45.13	15.89	0.49	32.80	28.71	40.00	-11.29	VERTICAL QP
4	160.909	44.94	19.18	0.70	32.80	32.02	43.52	-11.50	VERTICAL QP
5	223.733	48.00	15.90	0.82	32.80	31.92	46.02	-14.10	VERTICAL QP
6	768.748	39.00	28.30	1.64	32.38	36.56	46.02	-9.46	VERTICAL QP



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7.9 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

7.9.1 E.U.T. Operation

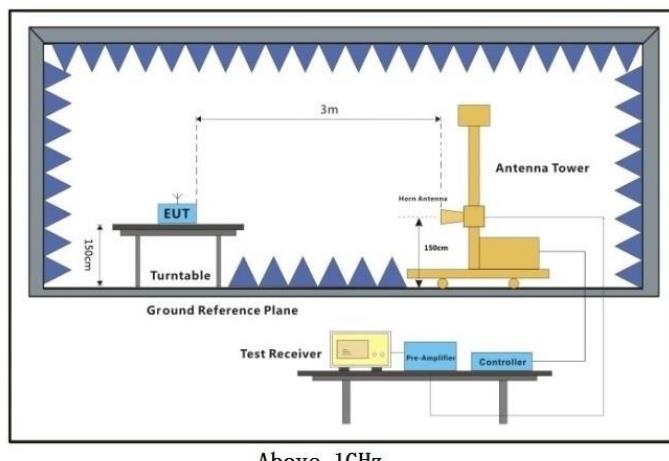
Operating Environment:

Temperature: 19.3 °C Humidity: 56.5 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



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7.9.4 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.



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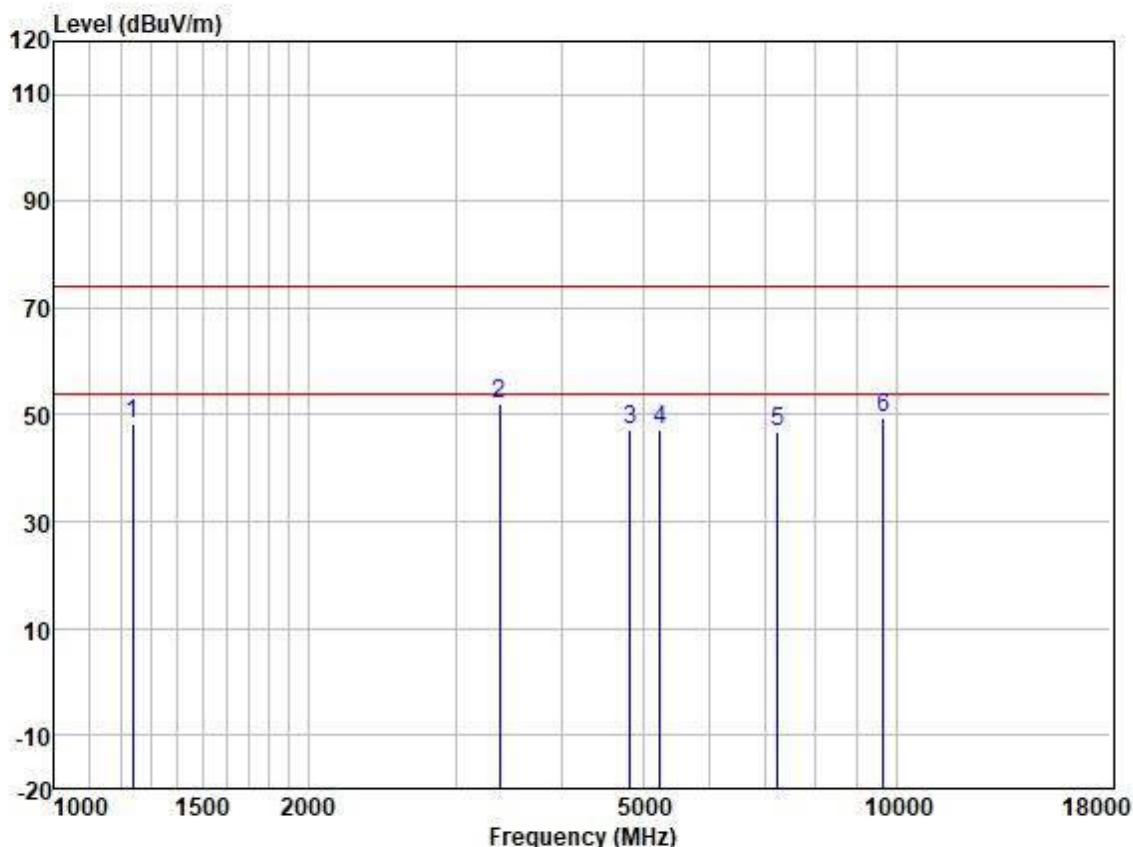
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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



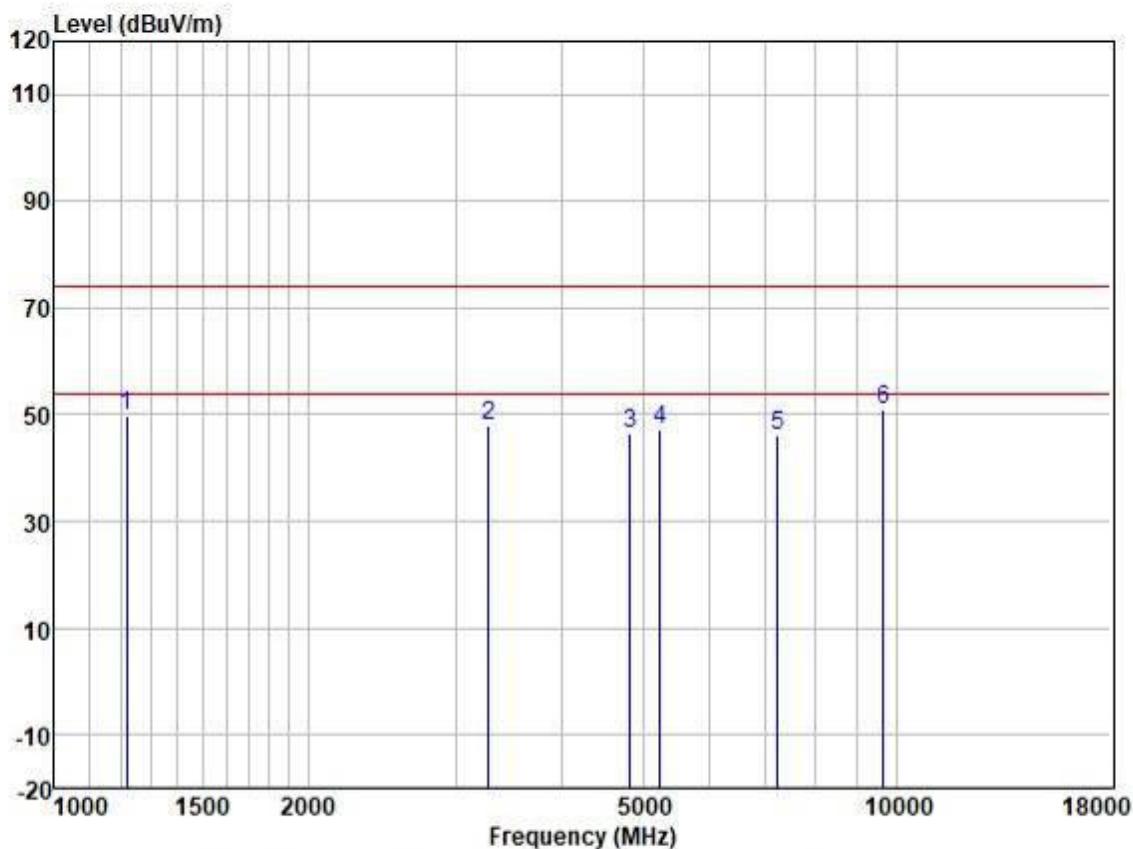
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
	Level	Factor	Loss	Factor	Level	Line				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1238.483	59.88	23.59	2.68	37.64	48.51	74.00	-25.49	VERTICAL	peak
2	3376.523	55.35	28.98	4.59	36.75	52.17	74.00	-21.83	VERTICAL	peak
3	4824.000	44.41	34.16	5.16	36.67	47.06	74.00	-26.94	VERTICAL	peak
4	5239.274	45.16	33.45	5.45	36.74	47.32	74.00	-26.68	VERTICAL	peak
5	7236.000	41.24	35.78	6.90	36.94	46.98	74.00	-27.02	VERTICAL	peak
6	9648.000	39.77	38.70	7.65	36.82	49.30	74.00	-24.70	VERTICAL	peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



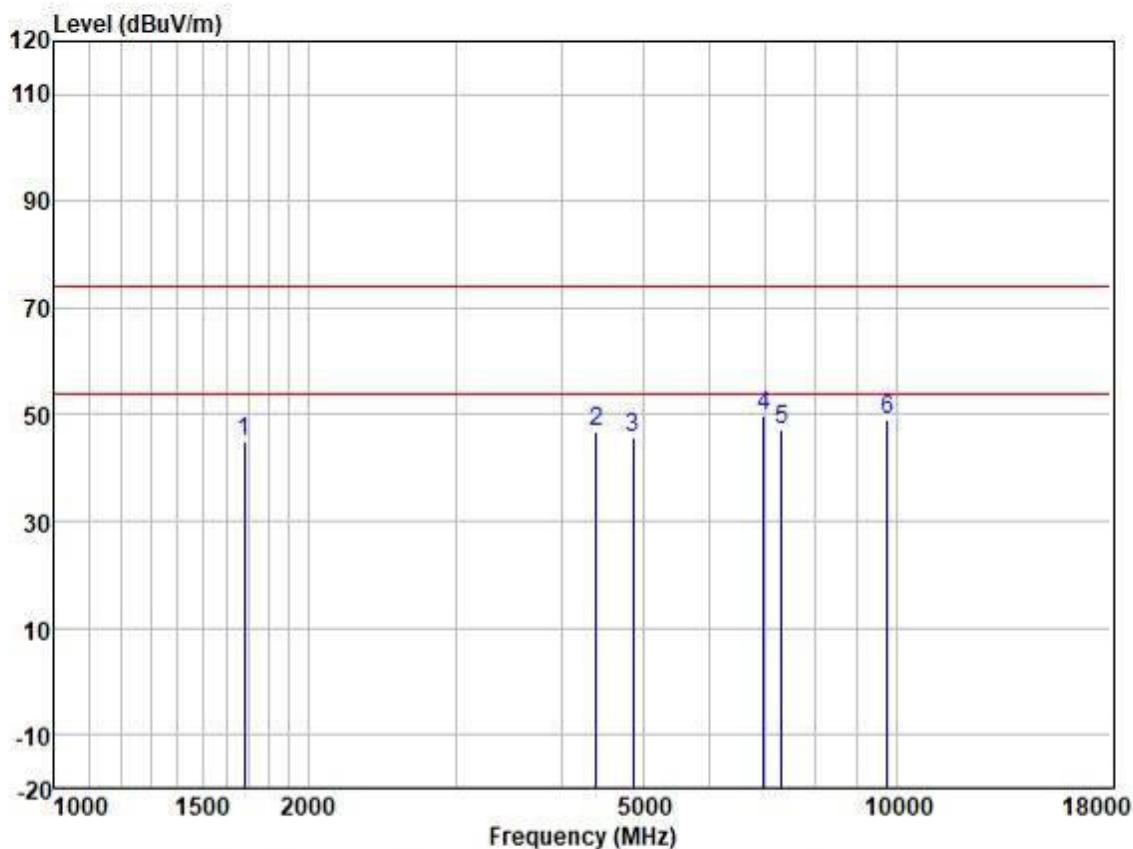
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m			
1	1217.190	61.40	23.34	2.61	37.64	49.71	74.00	-24.29	HORIZONTAL	peak
2	3280.326	51.40	28.91	4.52	36.79	48.04	74.00	-25.96	HORIZONTAL	peak
3	4824.000	43.95	34.16	5.16	36.67	46.60	74.00	-27.40	HORIZONTAL	peak
4	5239.274	45.09	33.45	5.45	36.74	47.25	74.00	-26.75	HORIZONTAL	peak
5	7236.000	40.25	35.78	6.90	36.94	45.99	74.00	-28.01	HORIZONTAL	peak
6	9648.000	41.33	38.70	7.65	36.82	50.86	74.00	-23.14	HORIZONTAL	peak

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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



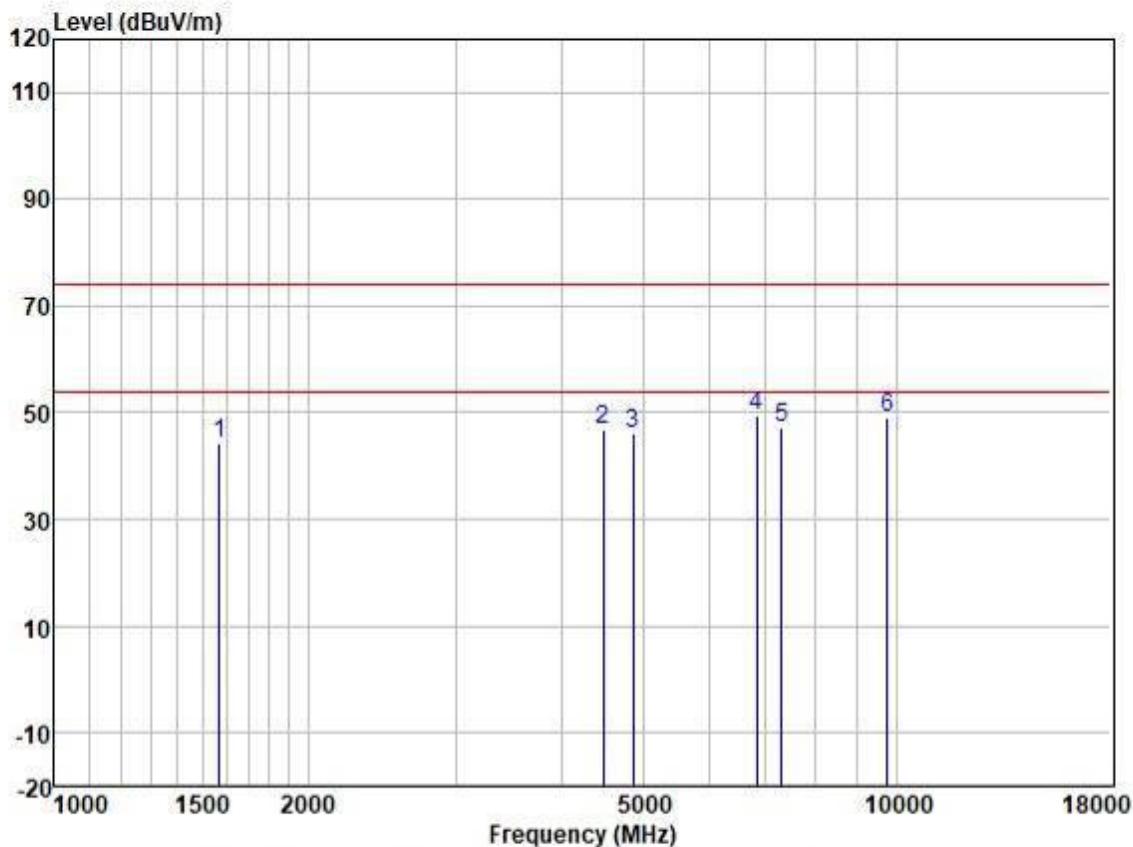
Freq	ReadAntenna Level	Antenna Factor	Cable Loss			Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
			MHz	dBuV	dB/m						
1	1682.477	54.12	25.03	3.06	37.40	44.81	74.00	-29.19	VERTICAL	peak	
2	4405.090	45.06	33.74	4.79	36.62	46.97	74.00	-27.03	VERTICAL	peak	
3	4874.000	42.95	34.15	5.22	36.67	45.65	74.00	-28.35	VERTICAL	peak	
4	6954.852	44.58	35.04	7.10	36.89	49.83	74.00	-24.17	VERTICAL	peak	
5	7311.000	41.14	36.00	6.83	36.95	47.02	74.00	-26.98	VERTICAL	peak	
6	9748.000	39.37	38.81	7.65	36.81	49.02	74.00	-24.98	VERTICAL	peak	

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna Level	Cable Preamp			Limit Line	Over Limit	Pol/Phase	Remark
		Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1569.721	54.26	24.60	2.97	37.47	44.36	74.00	-29.64	HORIZONTAL peak
2 4482.150	44.73	34.12	4.78	36.63	47.00	74.00	-27.00	HORIZONTAL peak
3 4874.000	43.25	34.15	5.22	36.67	45.95	74.00	-28.05	HORIZONTAL peak
4 6835.278	44.44	34.79	7.01	36.87	49.37	74.00	-24.63	HORIZONTAL peak
5 7311.000	41.46	36.00	6.83	36.95	47.34	74.00	-26.66	HORIZONTAL peak
6 9748.000	39.39	38.81	7.65	36.81	49.04	74.00	-24.96	HORIZONTAL peak

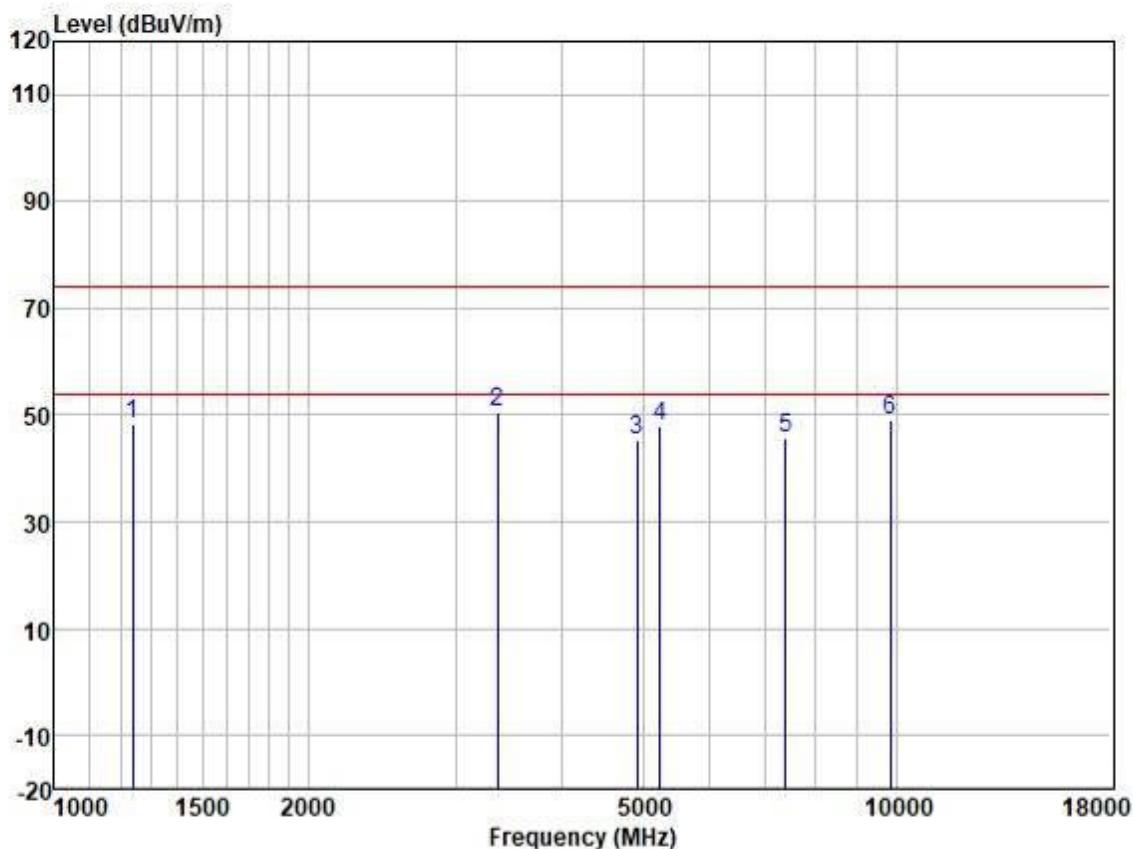
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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



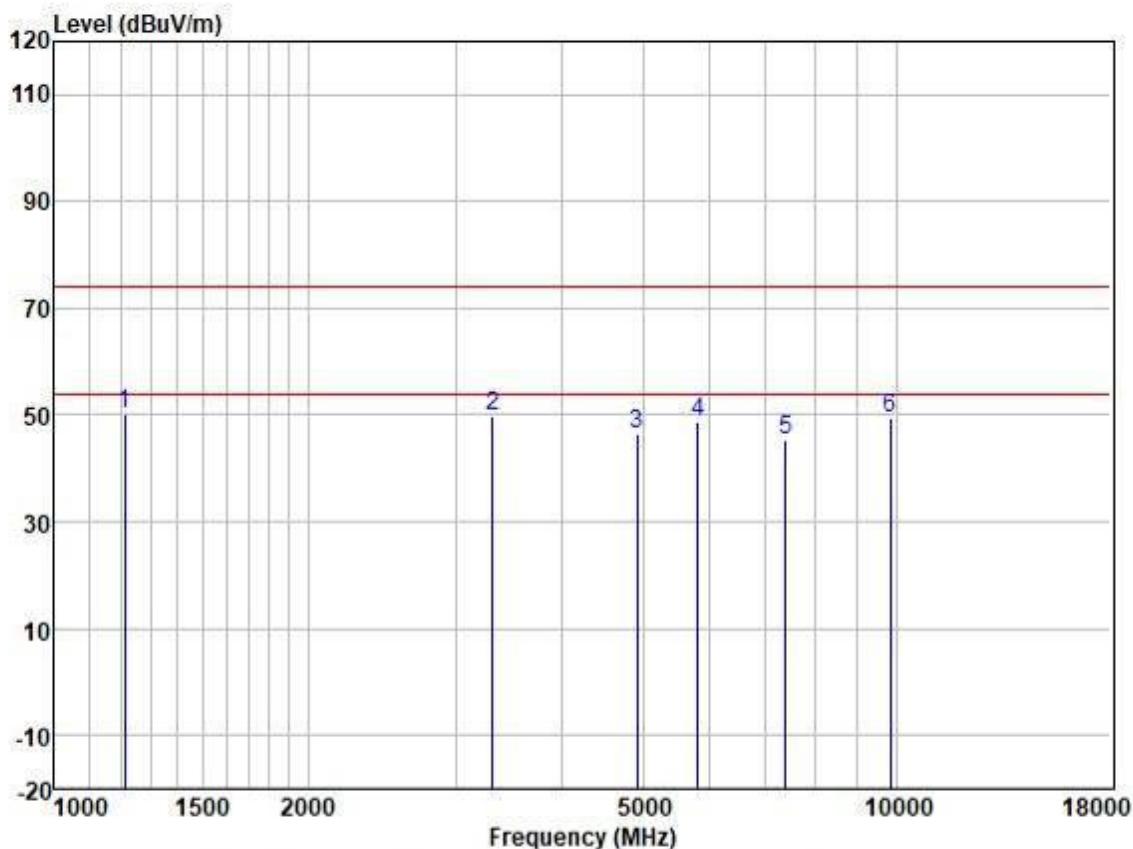
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Remark
	MHz	Level	Factor	Loss		Line	Line	Pol/Phase	
1	1238.483	59.85	23.59	2.68	37.64	48.48	74.00	-25.52	VERTICAL peak
2	3357.061	53.61	28.97	4.58	36.76	50.40	74.00	-23.60	VERTICAL peak
3	4924.000	42.52	34.15	5.26	36.68	45.25	74.00	-28.75	VERTICAL peak
4	5239.274	45.77	33.45	5.45	36.74	47.93	74.00	-26.07	VERTICAL peak
5	7386.000	39.60	36.23	6.75	36.96	45.62	74.00	-28.38	VERTICAL peak
6	9848.000	39.52	38.88	7.66	36.81	49.25	74.00	-24.75	VERTICAL peak

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



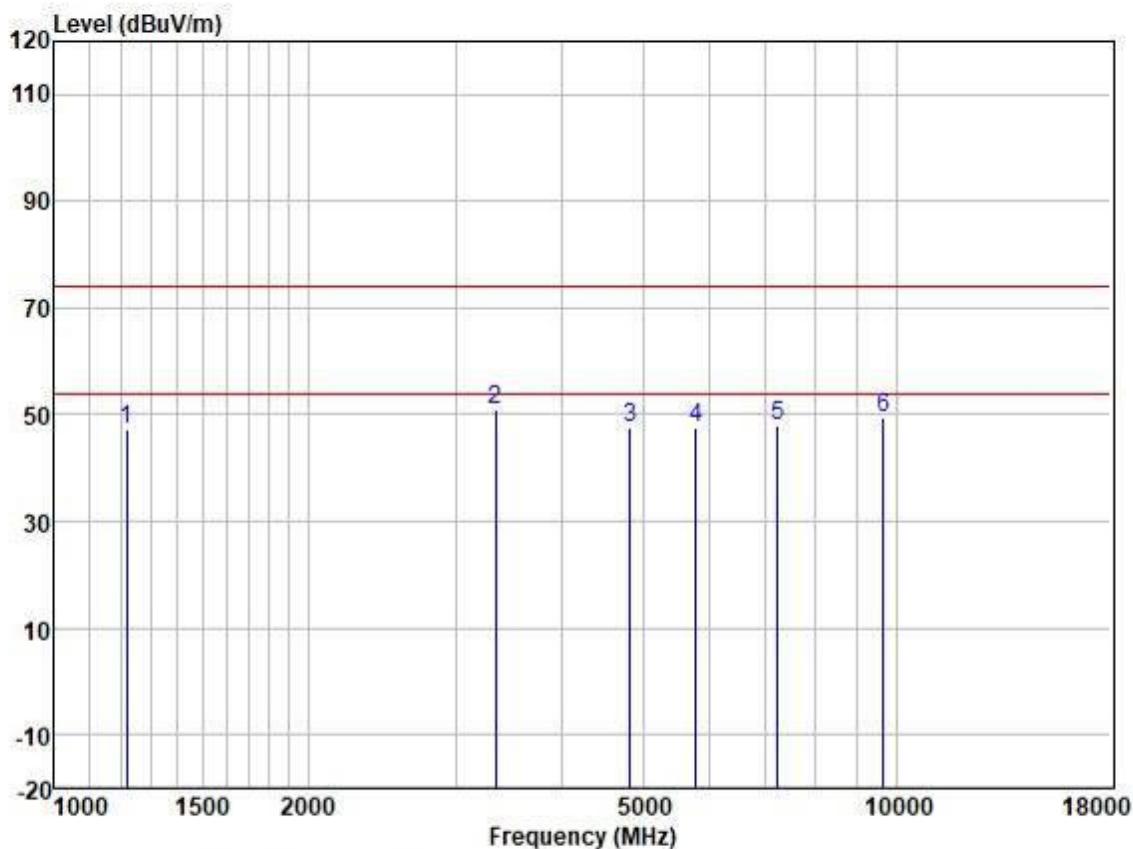
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
	Level	Factor	Loss	Factor	Level	Line				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	
1 1210.174	61.81	23.26	2.59	37.64	50.02	74.00	-23.98	HORIZONTAL	peak	
2 3318.471	53.28	28.94	4.55	36.77	50.00	74.00	-24.00	HORIZONTAL	peak	
3 4924.000	43.66	34.15	5.26	36.68	46.39	74.00	-27.61	HORIZONTAL	peak	
4 5813.812	47.10	32.67	5.77	36.79	48.75	74.00	-25.25	HORIZONTAL	peak	
5 7386.000	39.38	36.23	6.75	36.96	45.40	74.00	-28.60	HORIZONTAL	peak	
6 9848.000	39.78	38.88	7.66	36.81	49.51	74.00	-24.49	HORIZONTAL	peak	

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna Level	Antenna Factor	Cable Loss			Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
			dB	dB	dBuV/m						
MHz	dBuV	dB/m									
1 1217.190	58.92	23.34	2.61	37.64	47.23	74.00	-26.77	VERTICAL		peak	
2 3337.710	54.29	28.95	4.56	36.76	51.04	74.00	-22.96	VERTICAL		peak	
3 4824.000	44.89	34.16	5.16	36.67	47.54	74.00	-26.46	VERTICAL		peak	
4 5780.300	45.81	32.66	5.76	36.79	47.44	74.00	-26.56	VERTICAL		peak	
5 7236.000	42.08	35.78	6.90	36.94	47.82	74.00	-26.18	VERTICAL		peak	
6 9648.000	39.85	38.70	7.65	36.82	49.38	74.00	-24.62	VERTICAL		peak	

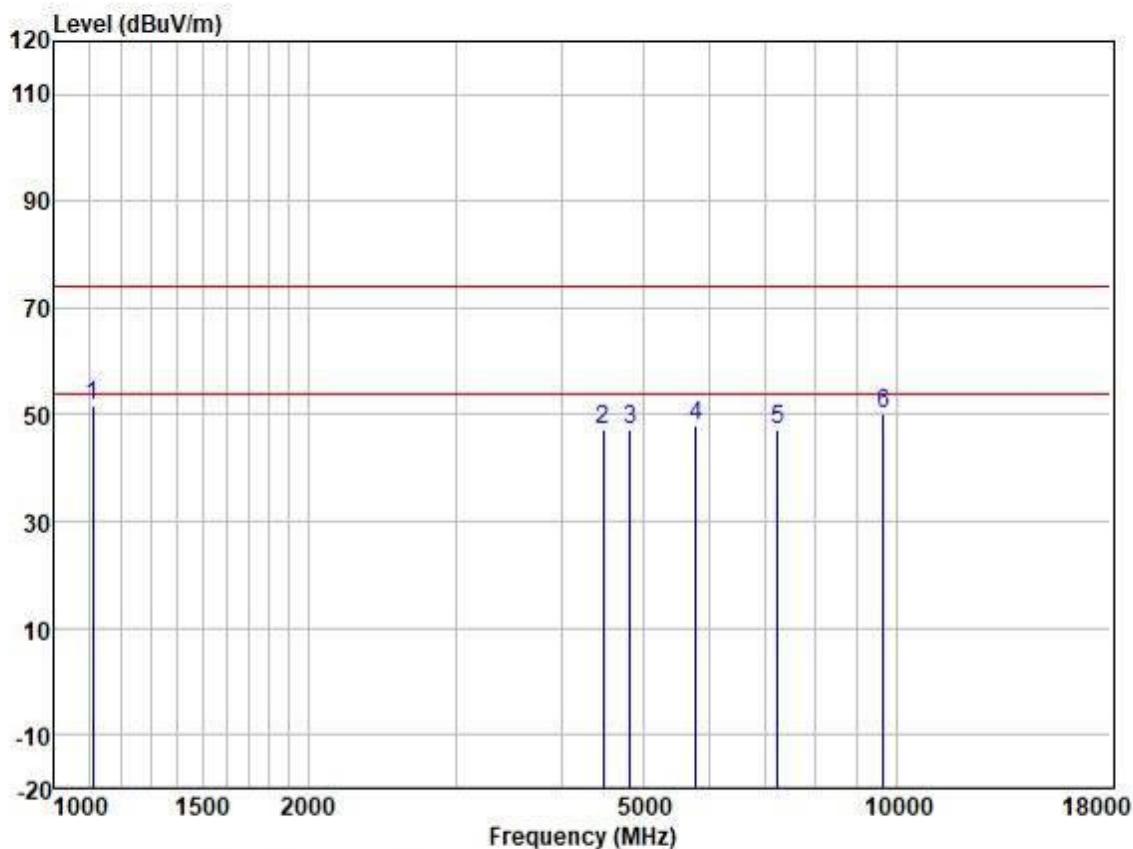
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



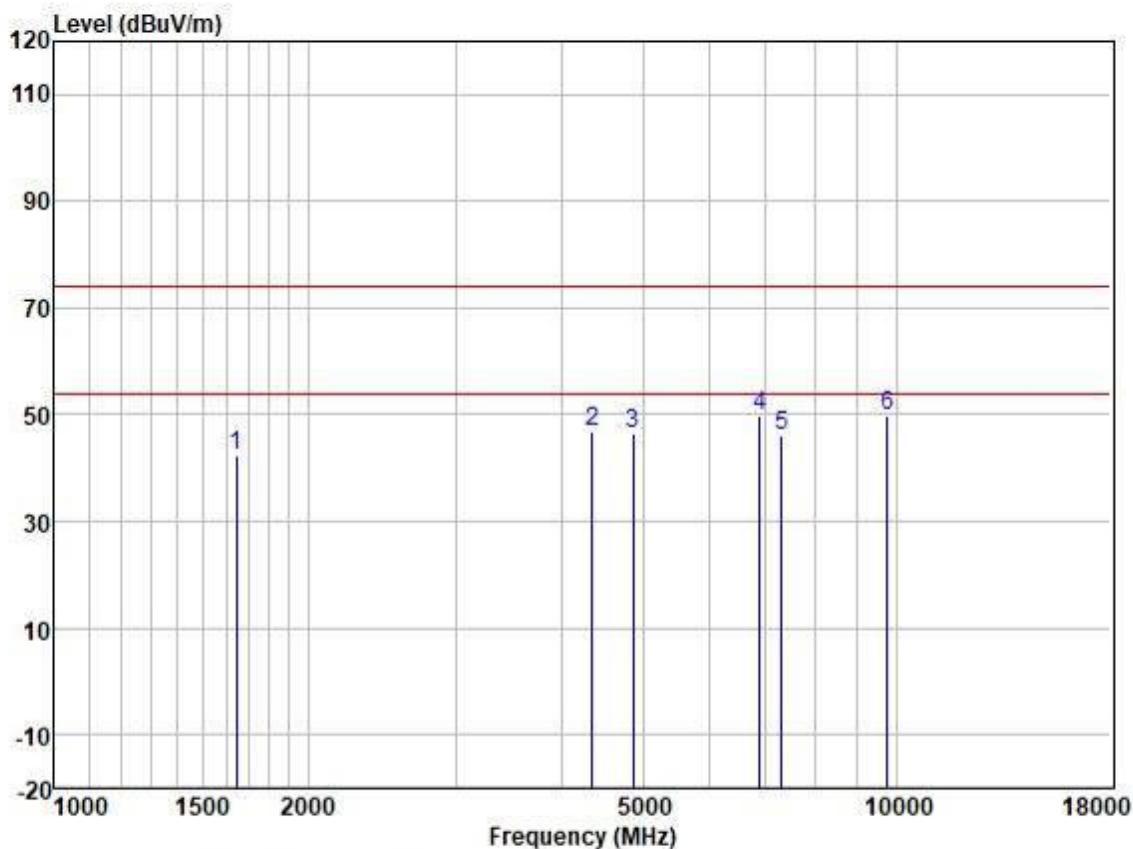
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Remark
	MHz	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1109.660	64.12	22.71	2.42	37.67	51.58	74.00	-22.42	HORIZONTAL peak
2	4482.150	44.98	34.12	4.78	36.63	47.25	74.00	-26.75	HORIZONTAL peak
3	4824.000	44.74	34.16	5.16	36.67	47.39	74.00	-26.61	HORIZONTAL peak
4	5780.300	46.13	32.66	5.76	36.79	47.76	74.00	-26.24	HORIZONTAL peak
5	7236.000	41.33	35.78	6.90	36.94	47.07	74.00	-26.93	HORIZONTAL peak
6	9648.000	40.50	38.70	7.65	36.82	50.03	74.00	-23.97	HORIZONTAL peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna Level	Antenna Factor	Cable Loss		Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
			dB	dB/m						
1	1644.019	51.91	24.84	3.03	37.42	42.36	74.00	-31.64	VERTICAL	peak
2	4354.454	45.19	33.43	4.80	36.62	46.80	74.00	-27.20	VERTICAL	peak
3	4874.000	43.90	34.15	5.22	36.67	46.60	74.00	-27.40	VERTICAL	peak
4	6874.906	44.76	34.88	7.04	36.87	49.81	74.00	-24.19	VERTICAL	peak
5	7311.000	40.36	36.00	6.83	36.95	46.24	74.00	-27.76	VERTICAL	peak
6	9748.000	40.19	38.81	7.65	36.81	49.84	74.00	-24.16	VERTICAL	peak

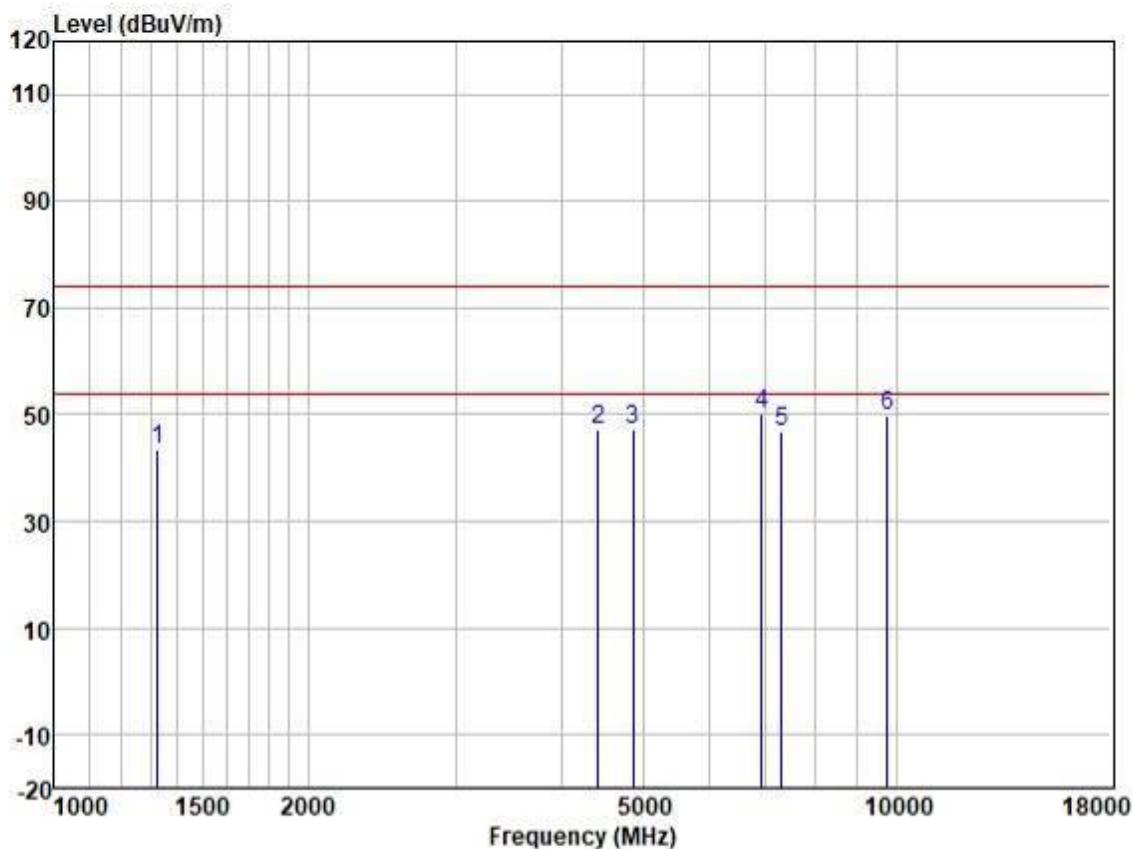
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dB	dBuV/m	dBuV/m	dB
1	1327.446	54.32	24.07	2.83	37.60	43.62	74.00	-30.38	HORIZONTAL	peak
2	4430.628	45.27	33.87	4.79	36.63	47.30	74.00	-26.70	HORIZONTAL	peak
3	4874.000	44.37	34.15	5.22	36.67	47.07	74.00	-26.93	HORIZONTAL	peak
4	6914.763	45.19	34.97	7.08	36.88	50.36	74.00	-23.64	HORIZONTAL	peak
5	7311.000	40.86	36.00	6.83	36.95	46.74	74.00	-27.26	HORIZONTAL	peak
6	9748.000	40.32	38.81	7.65	36.81	49.97	74.00	-24.03	HORIZONTAL	peak

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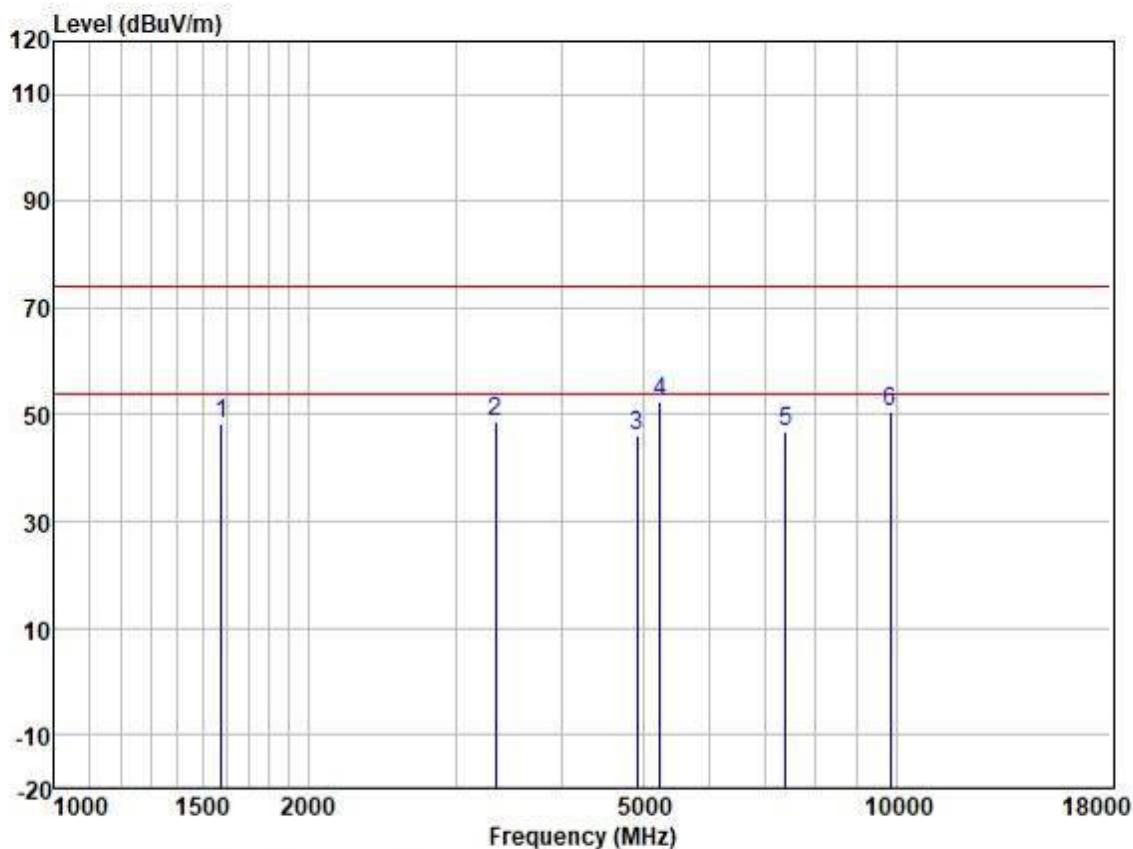


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna Level	Antenna Factor	Cable Loss			Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
			MHz	dBuV	dB/m						
1	1578.822	58.14	24.62	2.98	37.45	48.29	74.00	-25.71	VERTICAL	peak	
2	3337.710	51.83	28.95	4.56	36.76	48.58	74.00	-25.42	VERTICAL	peak	
3	4924.000	43.24	34.15	5.26	36.68	45.97	74.00	-28.03	VERTICAL	peak	
4	5239.274	50.27	33.45	5.45	36.74	52.43	74.00	-21.57	VERTICAL	peak	
5	7386.000	40.71	36.23	6.75	36.96	46.73	74.00	-27.27	VERTICAL	peak	
6	9848.000	40.77	38.88	7.66	36.81	50.50	74.00	-23.50	VERTICAL	peak	

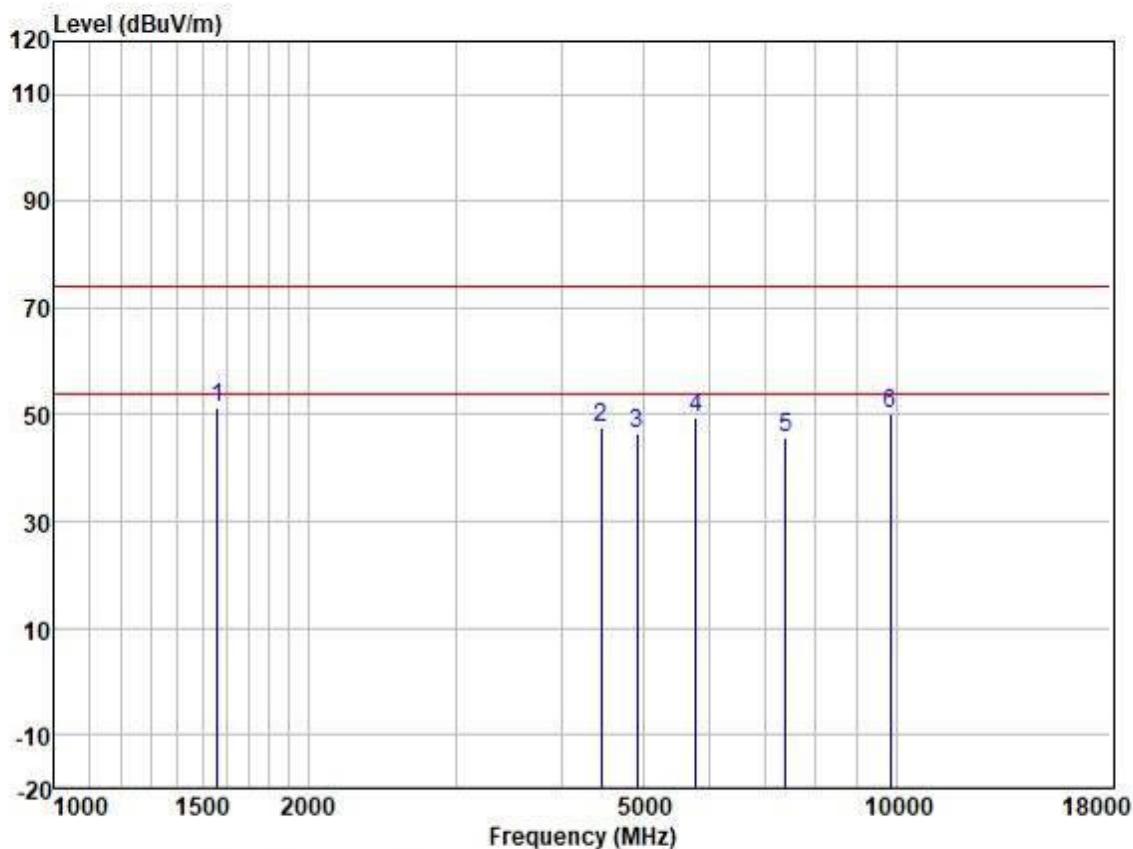
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
1	1560.673	61.08	24.57	2.97	37.47	51.15	74.00	-22.85	HORIZONTAL peak
2	4456.315	45.26	34.00	4.79	36.63	47.42	74.00	-26.58	HORIZONTAL peak
3	4924.000	43.73	34.15	5.26	36.68	46.46	74.00	-27.54	HORIZONTAL peak
4	5780.300	47.73	32.66	5.76	36.79	49.36	74.00	-24.64	HORIZONTAL peak
5	7386.000	39.82	36.23	6.75	36.96	45.84	74.00	-28.16	HORIZONTAL peak
6	9848.000	40.41	38.88	7.66	36.81	50.14	74.00	-23.86	HORIZONTAL peak

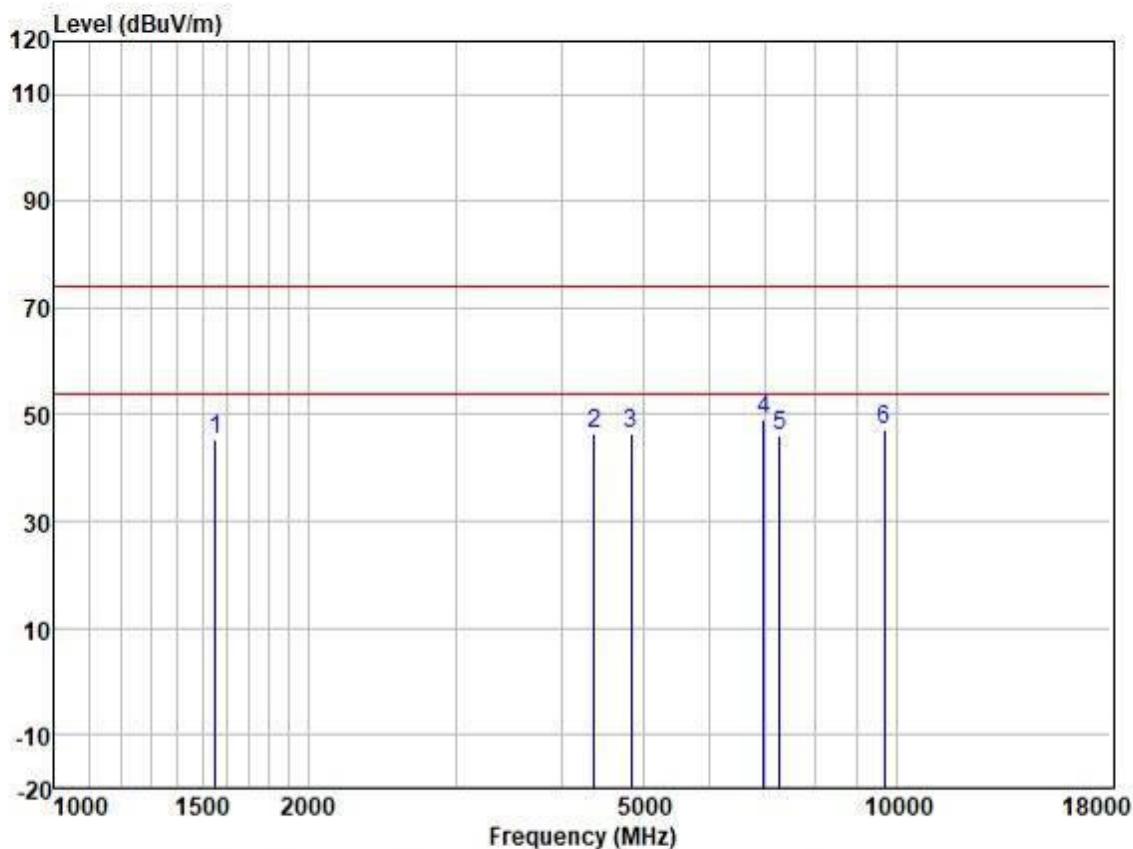
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1551.677	55.12	24.55	2.96	37.47	45.16	74.00	-28.84	VERTICAL	peak
2	4379.699	44.63	33.59	4.80	36.62	46.40	74.00	-27.60	VERTICAL	peak
3	4844.000	43.62	34.15	5.19	36.67	46.29	74.00	-27.71	VERTICAL	peak
4	6954.852	43.88	35.04	7.10	36.89	49.13	74.00	-24.87	VERTICAL	peak
5	7266.000	40.18	35.86	6.88	36.94	45.98	74.00	-28.02	VERTICAL	peak
6	9688.000	37.50	38.75	7.65	36.82	47.08	74.00	-26.92	VERTICAL	peak

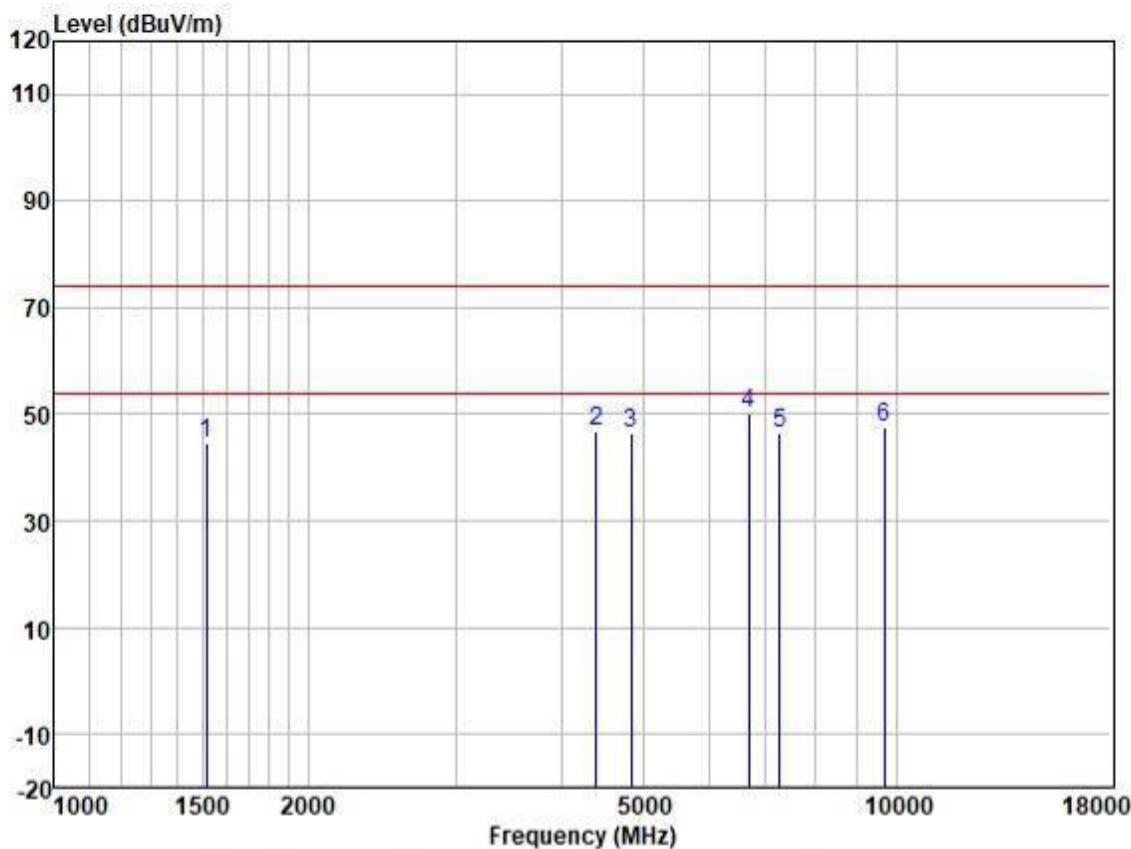
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1516.210	54.53	24.47	2.95	37.50	44.45	74.00	-29.55	HORIZONTAL	peak
2	4405.090	44.75	33.74	4.79	36.62	46.66	74.00	-27.34	HORIZONTAL	peak
3	4844.000	43.70	34.15	5.19	36.67	46.37	74.00	-27.63	HORIZONTAL	peak
4	6679.040	45.79	34.28	6.82	36.85	50.04	74.00	-23.96	HORIZONTAL	peak
5	7266.000	40.61	35.86	6.88	36.94	46.41	74.00	-27.59	HORIZONTAL	peak
6	9688.000	38.00	38.75	7.65	36.82	47.58	74.00	-26.42	HORIZONTAL	peak

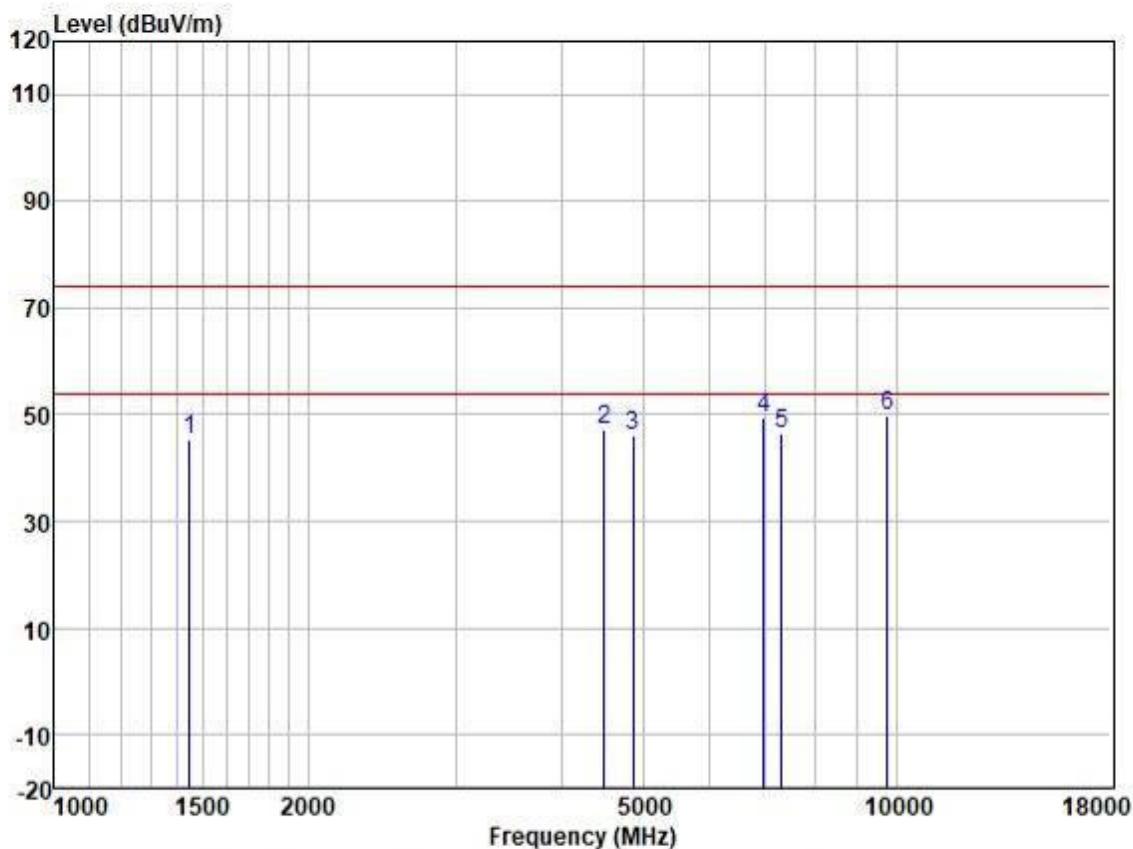
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
	MHz	Level	Factor	Loss						
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1447.688	55.48	24.35	2.92	37.53	45.22	74.00	-28.78	VERTICAL	peak
2	4495.125	44.91	34.17	4.78	36.63	47.23	74.00	-26.77	VERTICAL	peak
3	4874.000	43.20	34.15	5.22	36.67	45.90	74.00	-28.10	VERTICAL	peak
4	6954.852	44.01	35.04	7.10	36.89	49.26	74.00	-24.74	VERTICAL	peak
5	7311.000	40.42	36.00	6.83	36.95	46.30	74.00	-27.70	VERTICAL	peak
6	9748.000	40.15	38.81	7.65	36.81	49.80	74.00	-24.20	VERTICAL	peak

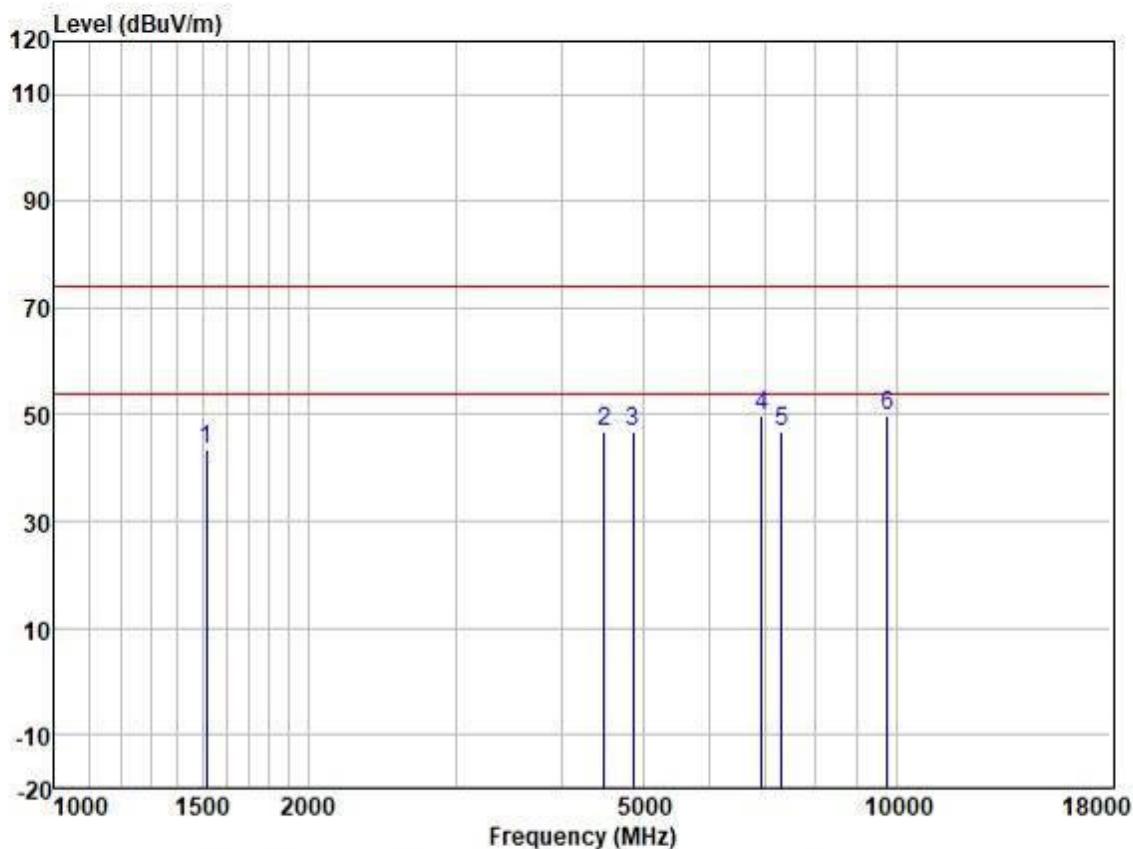
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m				
1	1516.210	53.56	24.47	2.95	37.50	43.48	74.00	-30.52	HORIZONTAL	peak	
2	4495.125	44.52	34.17	4.78	36.63	46.84	74.00	-27.16	HORIZONTAL	peak	
3	4874.000	44.02	34.15	5.22	36.67	46.72	74.00	-27.28	HORIZONTAL	peak	
4	6914.763	44.67	34.97	7.08	36.88	49.84	74.00	-24.16	HORIZONTAL	peak	
5	7311.000	40.83	36.00	6.83	36.95	46.71	74.00	-27.29	HORIZONTAL	peak	
6	9748.000	40.02	38.81	7.65	36.81	49.67	74.00	-24.33	HORIZONTAL	peak	

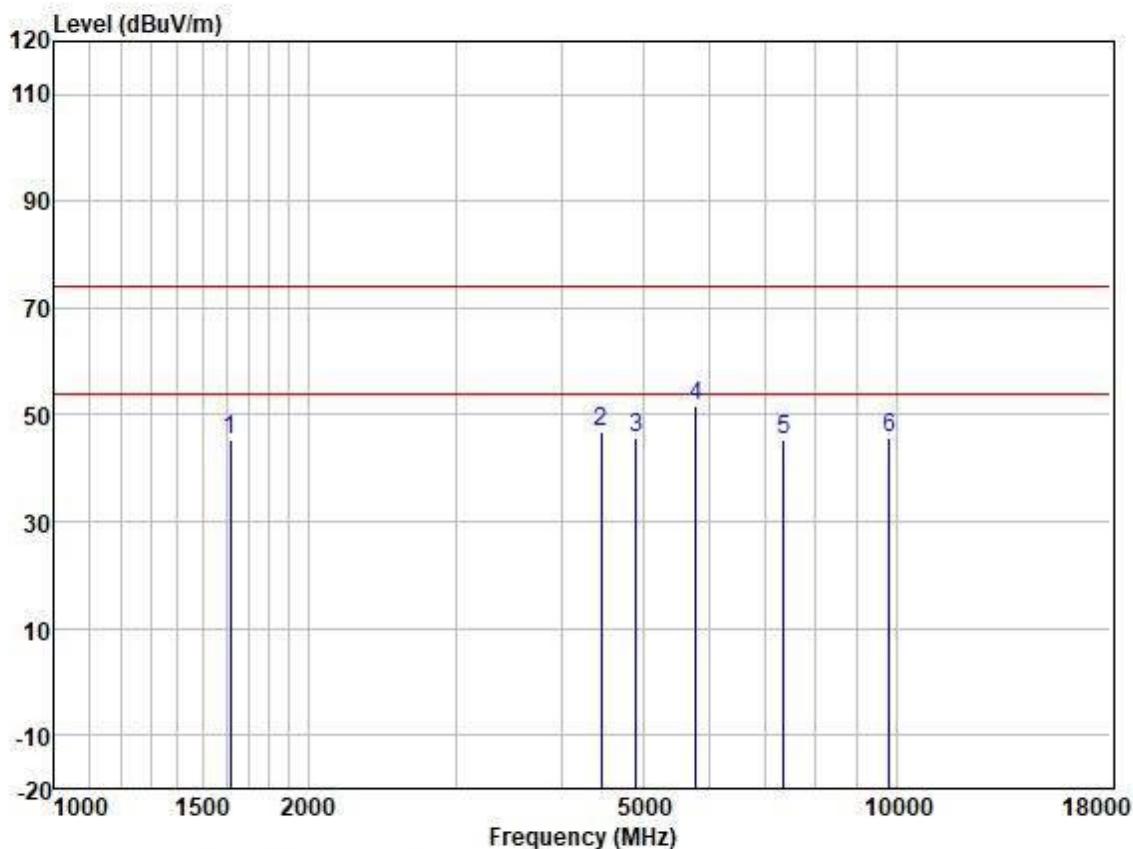
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
	Level	Factor	Loss	Factor	Level	Line				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1615.754	54.86	24.74	3.00	37.44	45.16	74.00	-28.84	VERTICAL	peak
2	4456.315	44.63	34.00	4.79	36.63	46.79	74.00	-27.21	VERTICAL	peak
3	4904.000	42.85	34.15	5.24	36.68	45.56	74.00	-28.44	VERTICAL	peak
4	5780.300	50.18	32.66	5.76	36.79	51.81	74.00	-22.19	VERTICAL	peak
5	7356.000	39.31	36.12	6.79	36.95	45.27	74.00	-28.73	VERTICAL	peak
6	9808.000	35.92	38.86	7.66	36.81	45.63	74.00	-28.37	VERTICAL	peak

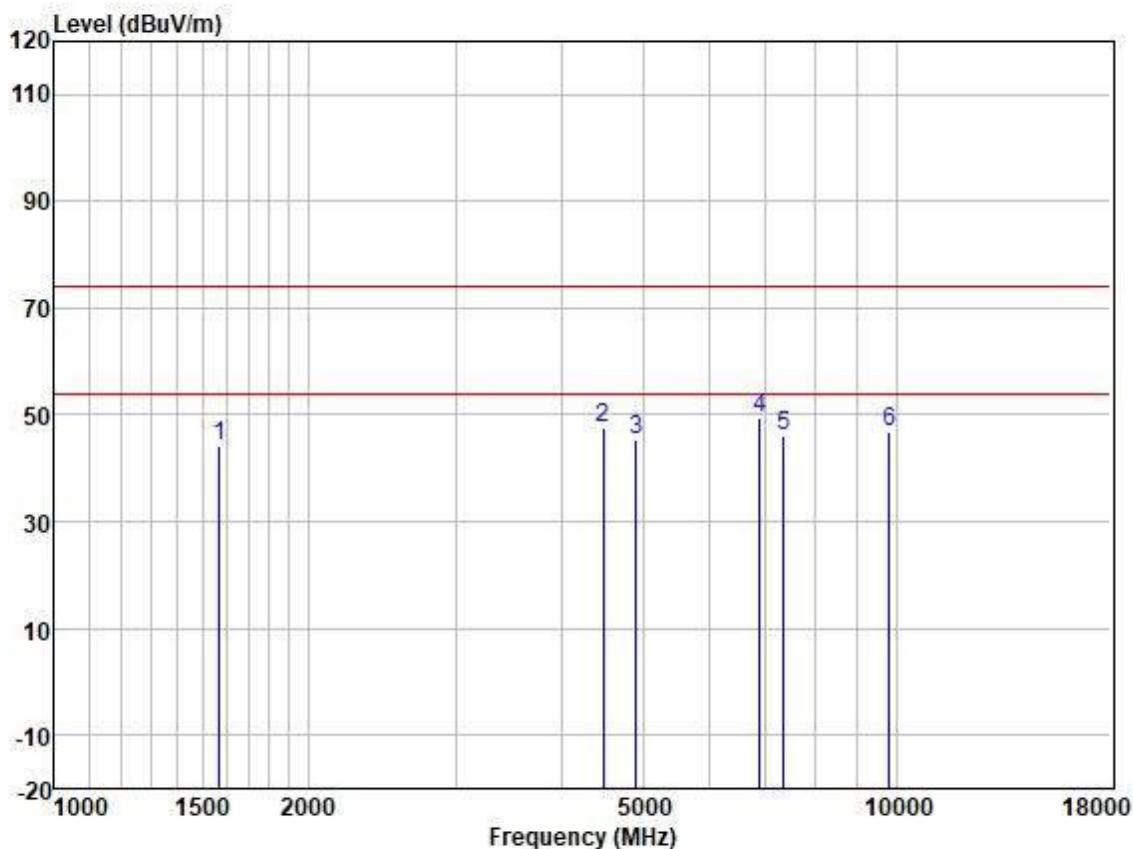
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



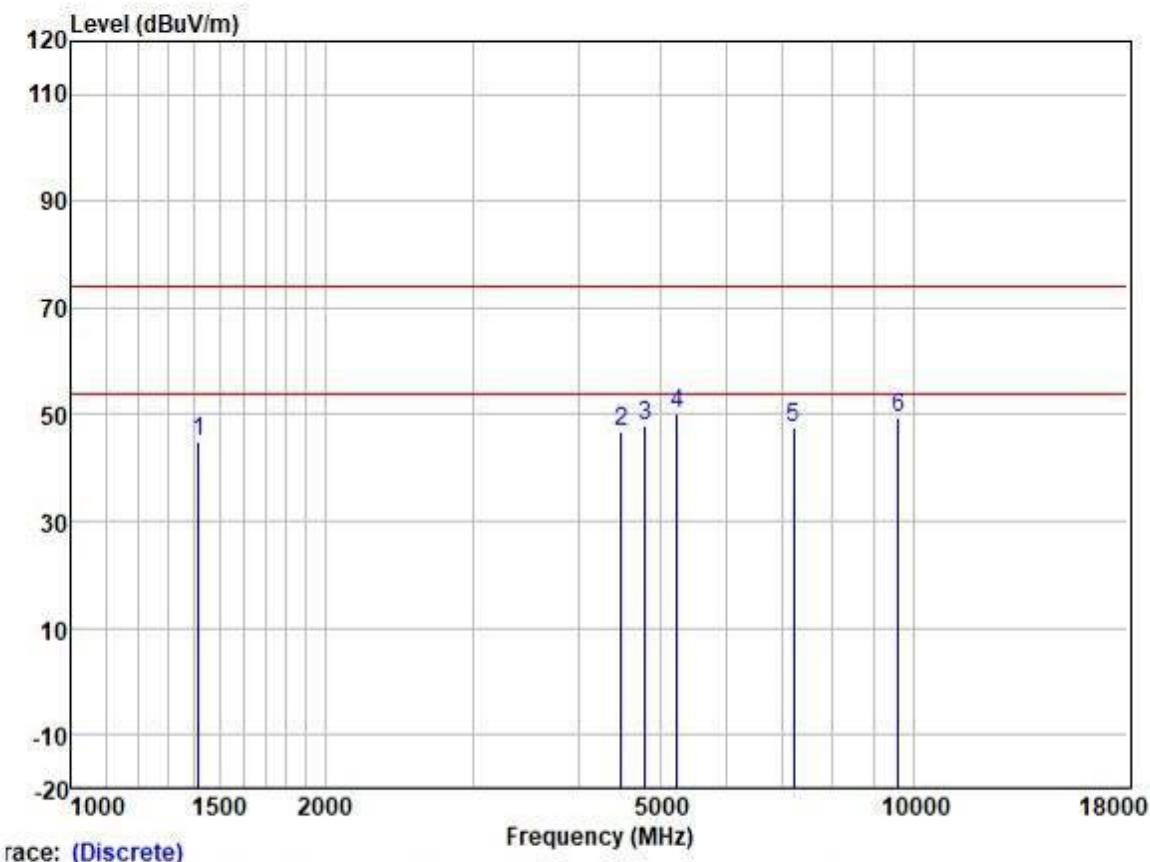
Freq	ReadAntenna Level	Antenna Factor	Cable Loss		Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
			MHz	dBuV	dB/m	dB	dBuV/m	dB	dB	
1	1569.721	54.14	24.60	2.97	37.47	44.24	74.00	-29.76	HORIZONTAL	peak
2	4482.150	45.27	34.12	4.78	36.63	47.54	74.00	-26.46	HORIZONTAL	peak
3	4904.000	42.78	34.15	5.24	36.68	45.49	74.00	-28.51	HORIZONTAL	peak
4	6874.906	44.51	34.88	7.04	36.87	49.56	74.00	-24.44	HORIZONTAL	peak
5	7356.000	40.14	36.12	6.79	36.95	46.10	74.00	-27.90	HORIZONTAL	peak
6	9808.000	37.09	38.86	7.66	36.81	46.80	74.00	-27.20	HORIZONTAL	peak

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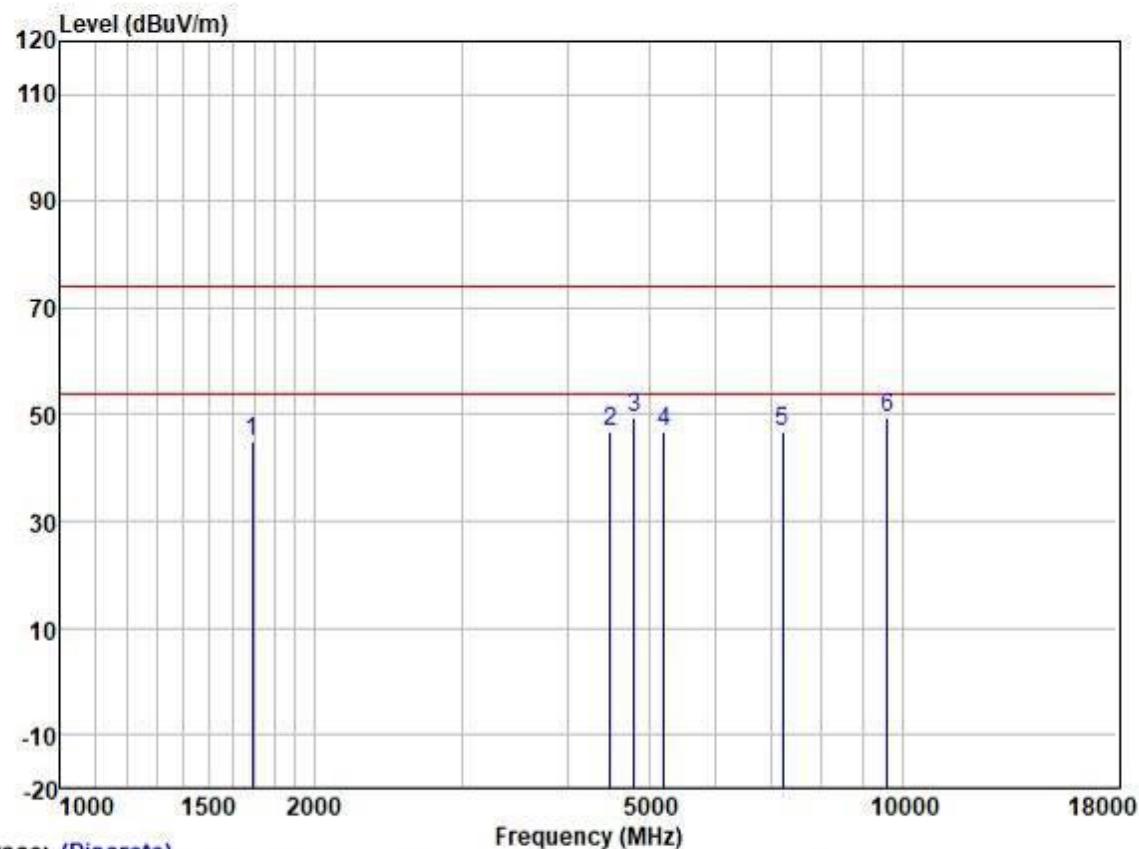
Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



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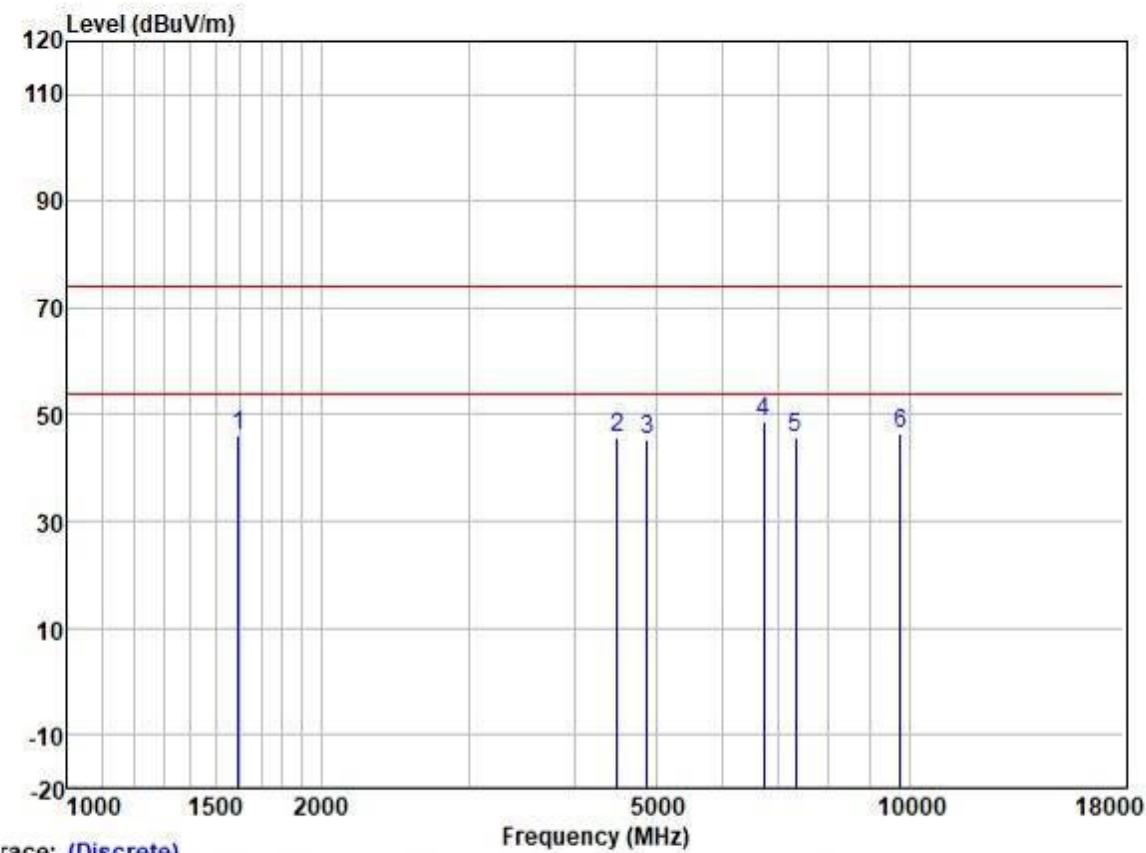
Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



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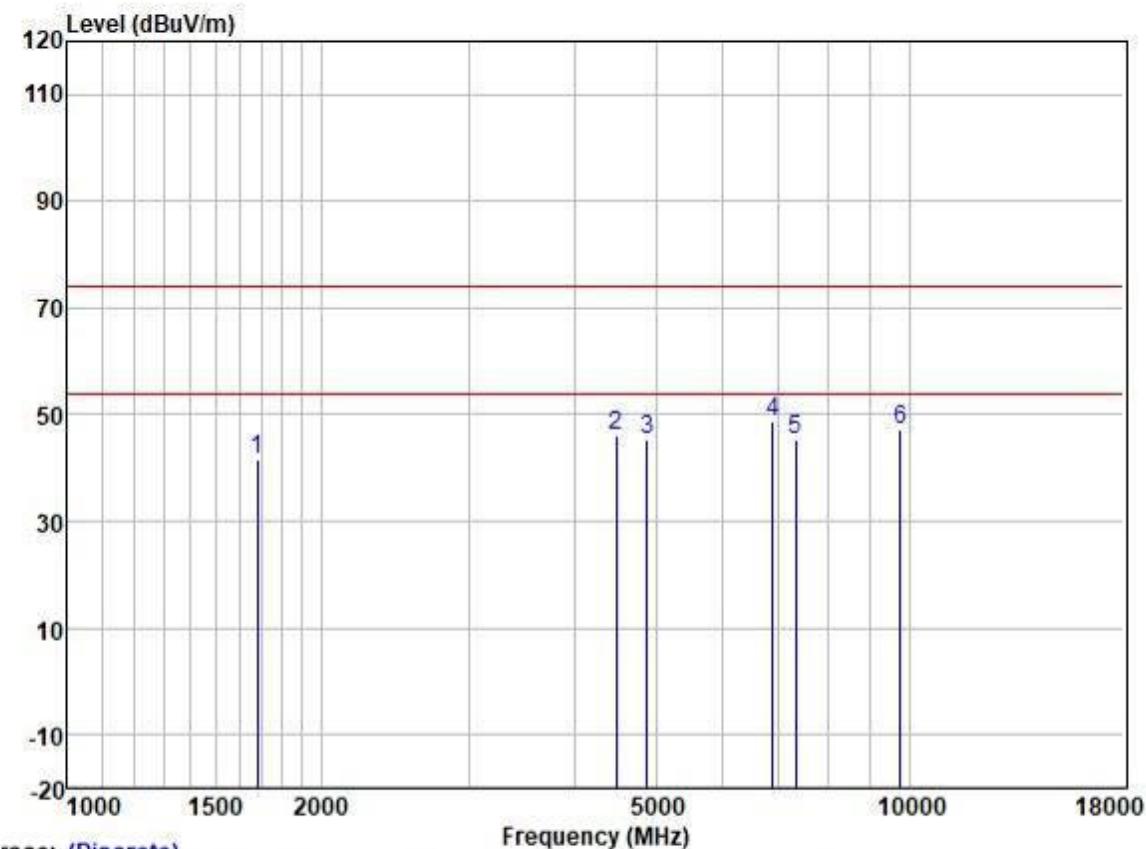
Race: (Discrete)	Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor	Level	dBuV/m				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m				
1	1597.181	55.86	24.68	2.99	37.45	46.08	74.00	-27.92	VERTICAL	peak	
2	4495.125	43.39	34.17	4.78	36.63	45.71	74.00	-28.29	VERTICAL	peak	
3	4880.000	42.53	34.15	5.22	36.67	45.23	74.00	-28.77	VERTICAL	peak	
4	6717.762	44.26	34.42	6.87	36.85	48.70	74.00	-25.30	VERTICAL	peak	
5	7320.000	39.60	36.07	6.81	36.95	45.53	74.00	-28.47	VERTICAL	peak	
6	9760.000	36.87	38.81	7.65	36.81	46.52	74.00	-27.48	VERTICAL	peak	

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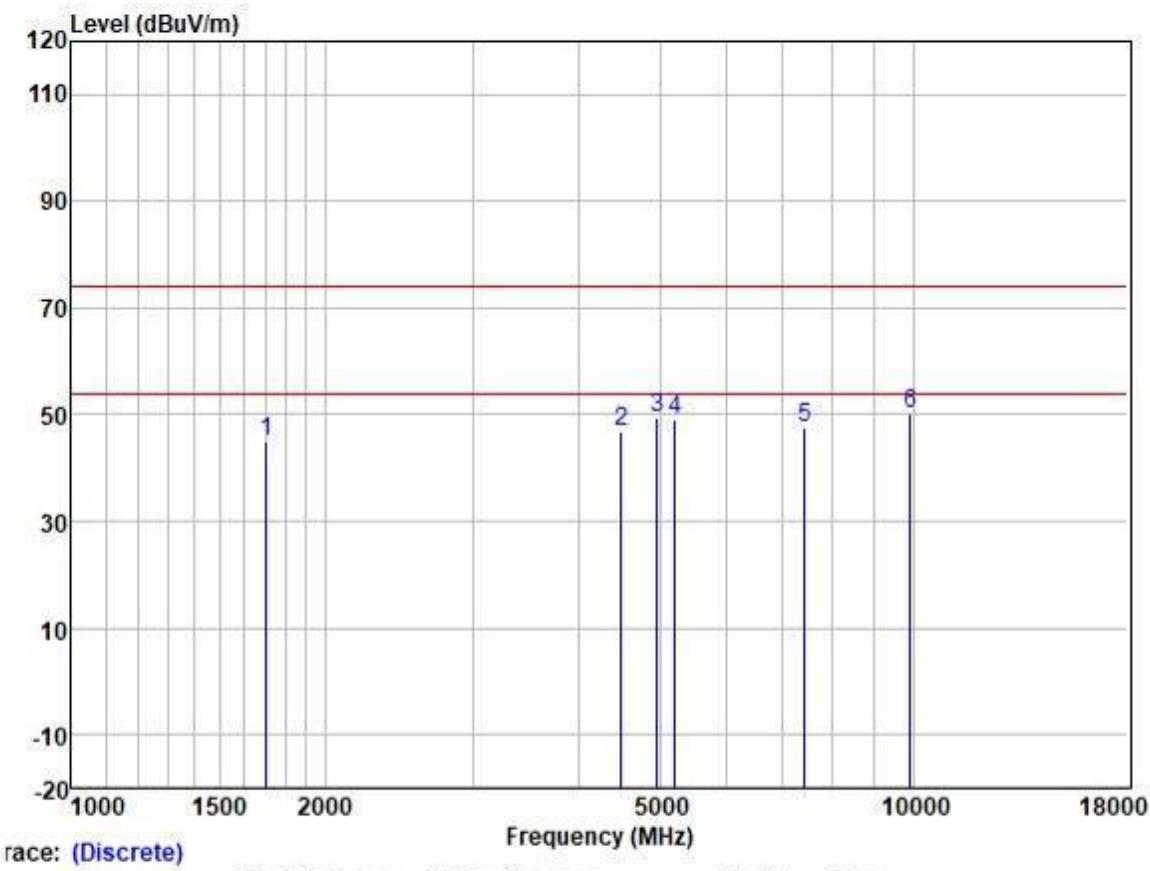
Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



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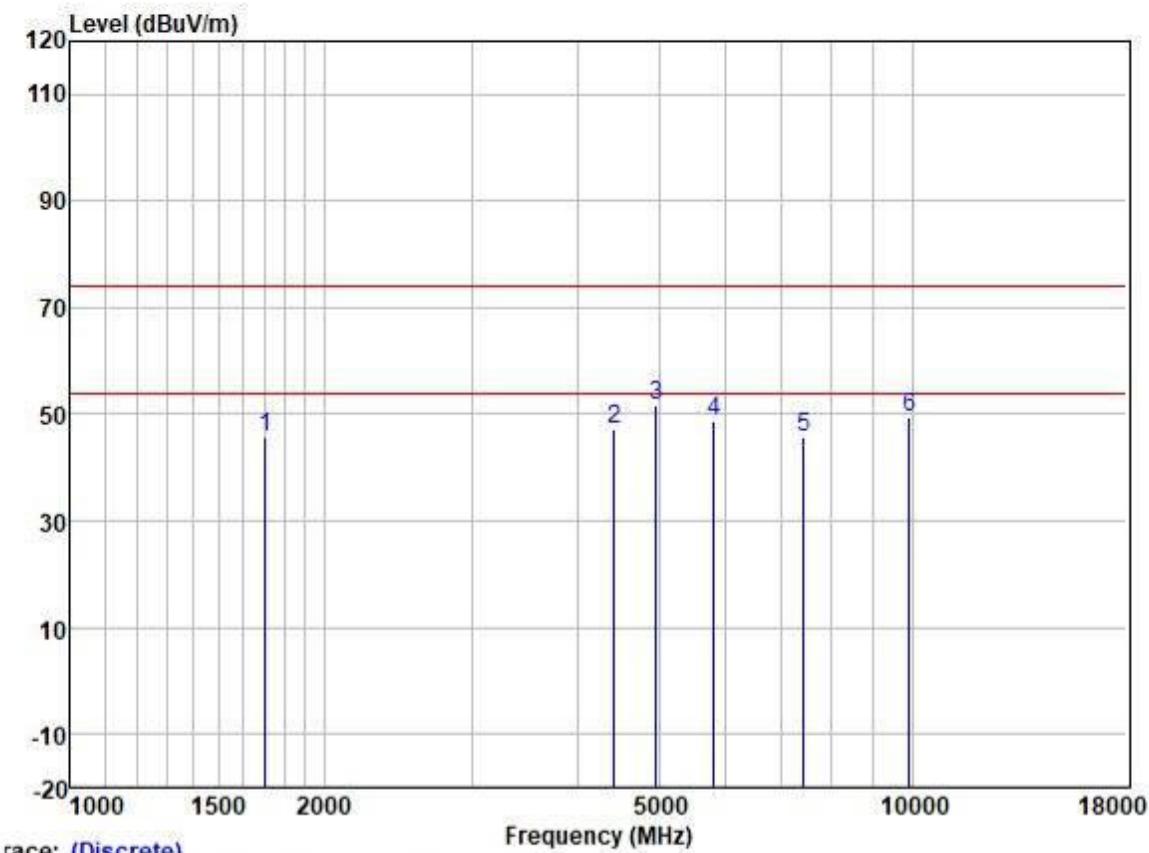
Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m				
1	1702.042	54.97	25.15	3.09	37.39	45.82	74.00	-28.18	HORIZONTAL	peak
2	4430.628	45.05	33.87	4.79	36.63	47.08	74.00	-26.92	HORIZONTAL	peak
3	4960.000	48.79	34.15	5.28	36.69	51.53	74.00	-22.47	HORIZONTAL	peak
4	5813.812	47.09	32.67	5.77	36.79	48.74	74.00	-25.26	HORIZONTAL	peak
5	7440.000	39.76	36.33	6.72	36.96	45.85	74.00	-28.15	HORIZONTAL	peak
6	9920.000	39.74	38.95	7.67	36.80	49.56	74.00	-24.44	HORIZONTAL	peak

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8 Test Setup Photo

Refer to Setup Photos for GZCR240100011402



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2401000114HS



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10 Appendix

For BLE

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	0.097	0.625	15.52	8.09	0.03
		2440	0.097	0.625	15.52	8.09	0.03
		2480	0.097	0.625	15.52	8.09	0.00
2M	SISO	2402	0.066	0.625	10.56	9.76	0.00
		2440	0.065	0.625	10.40	9.83	0.03
		2480	0.065	0.625	10.40	9.83	0.03

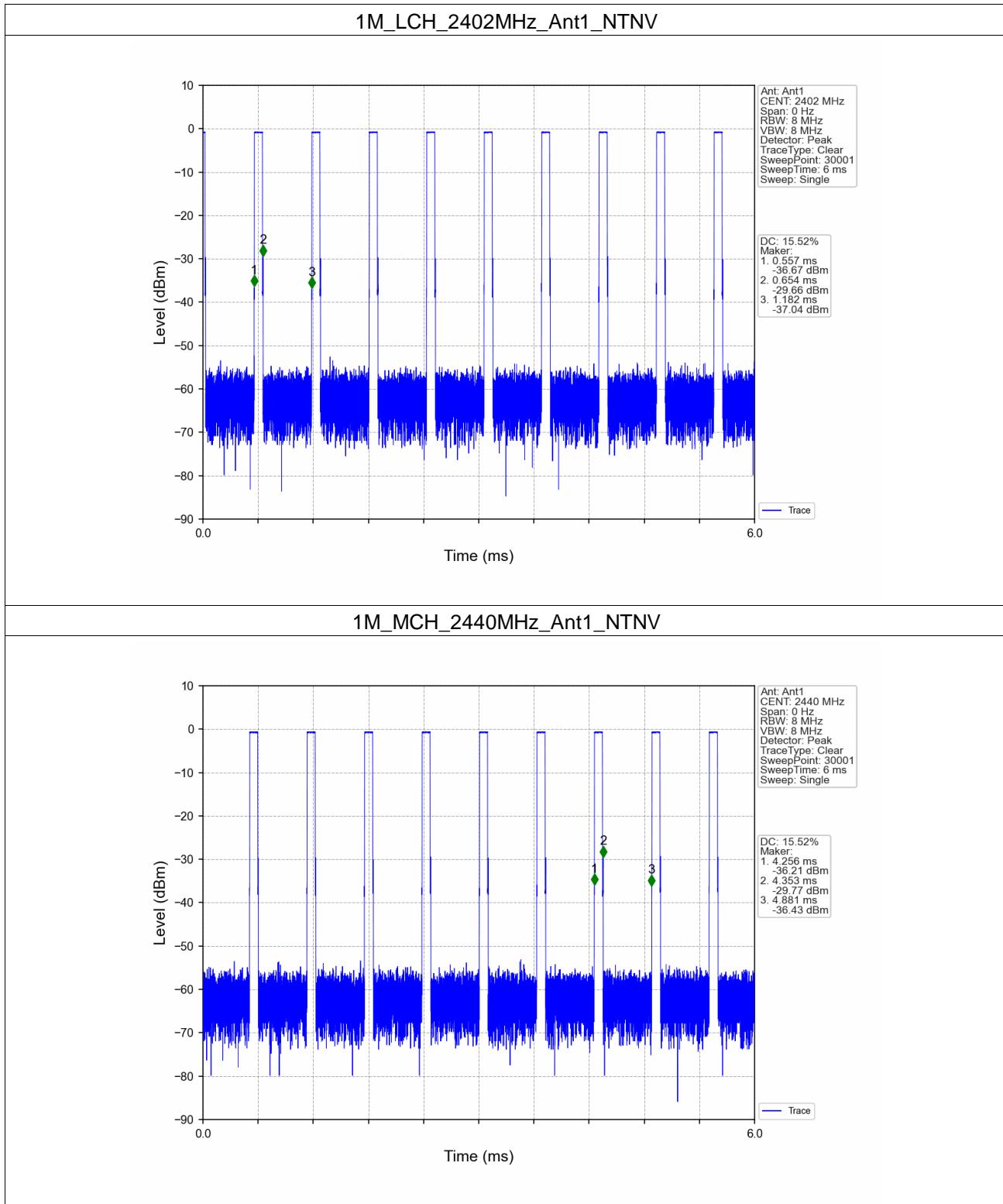


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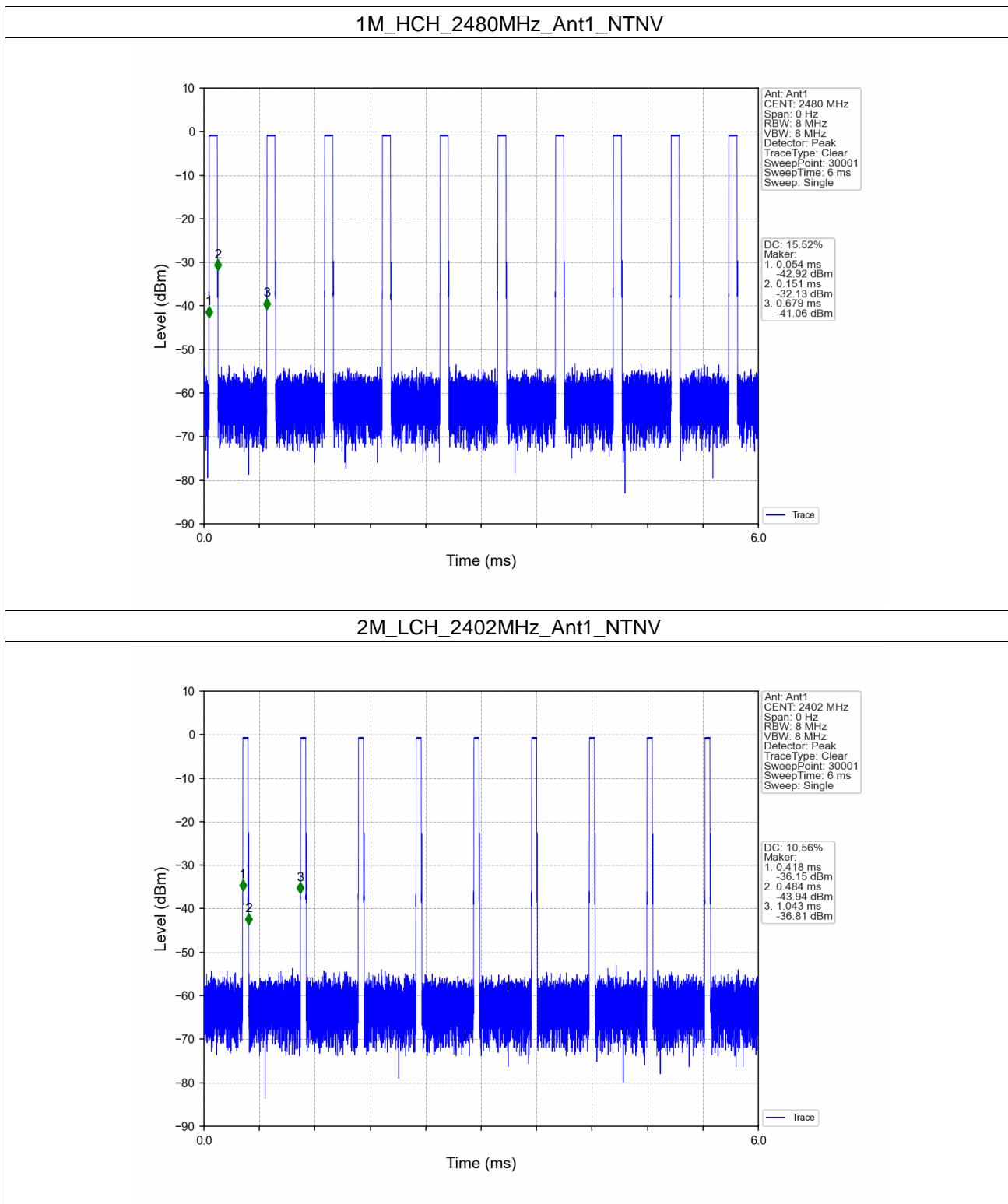
1.1.2 Test Graph

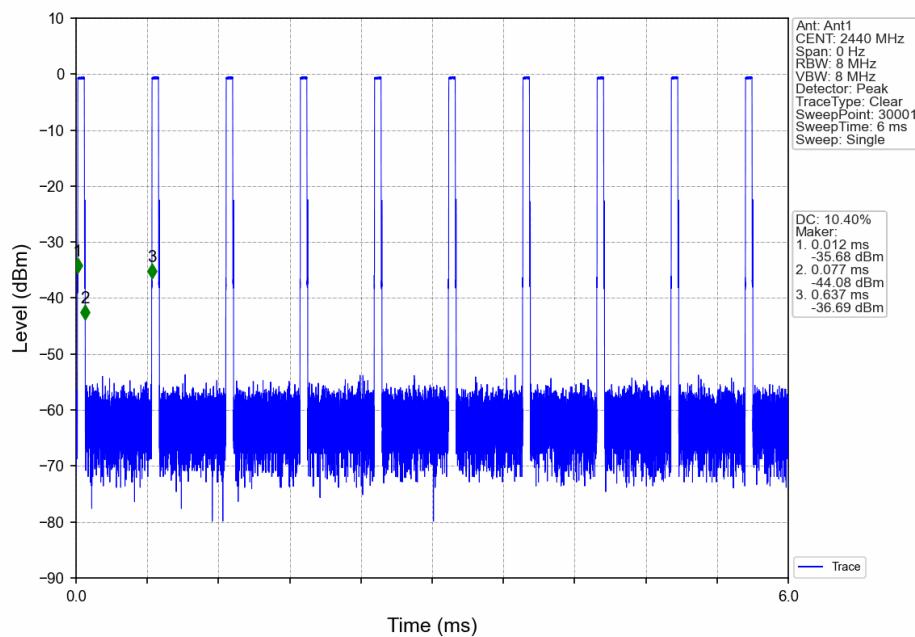
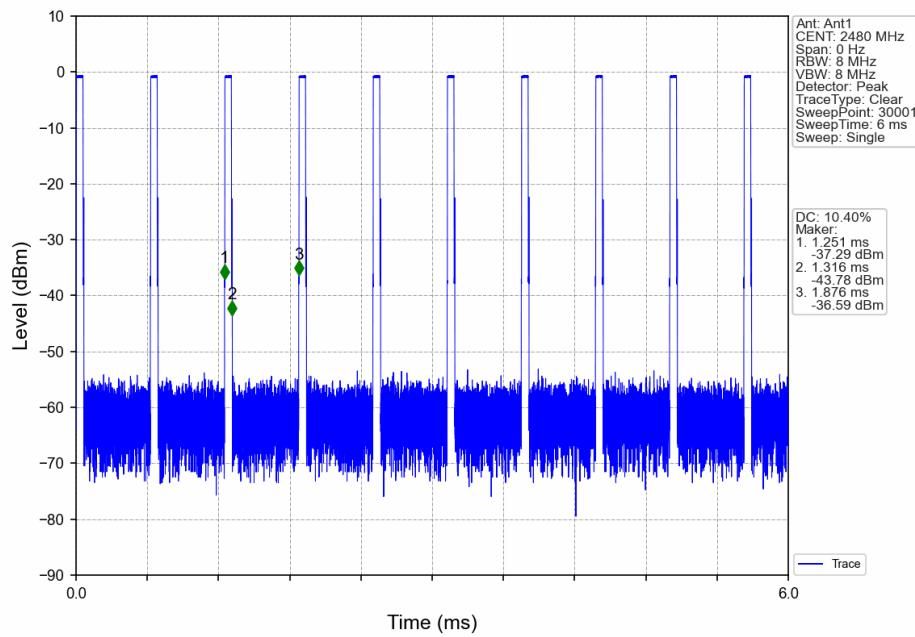


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2M_MCH_2440MHz_Ant1_NTNV**2M_HCH_2480MHz_Ant1_NTNV**

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2. Bandwidth

2.1 6dB BW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.506	>=0.5	Pass
		2440	1	0.508	>=0.5	Pass
		2480	1	0.512	>=0.5	Pass
2M	SISO	2402	1	0.877	>=0.5	Pass
		2440	1	0.875	>=0.5	Pass
		2480	1	0.877	>=0.5	Pass

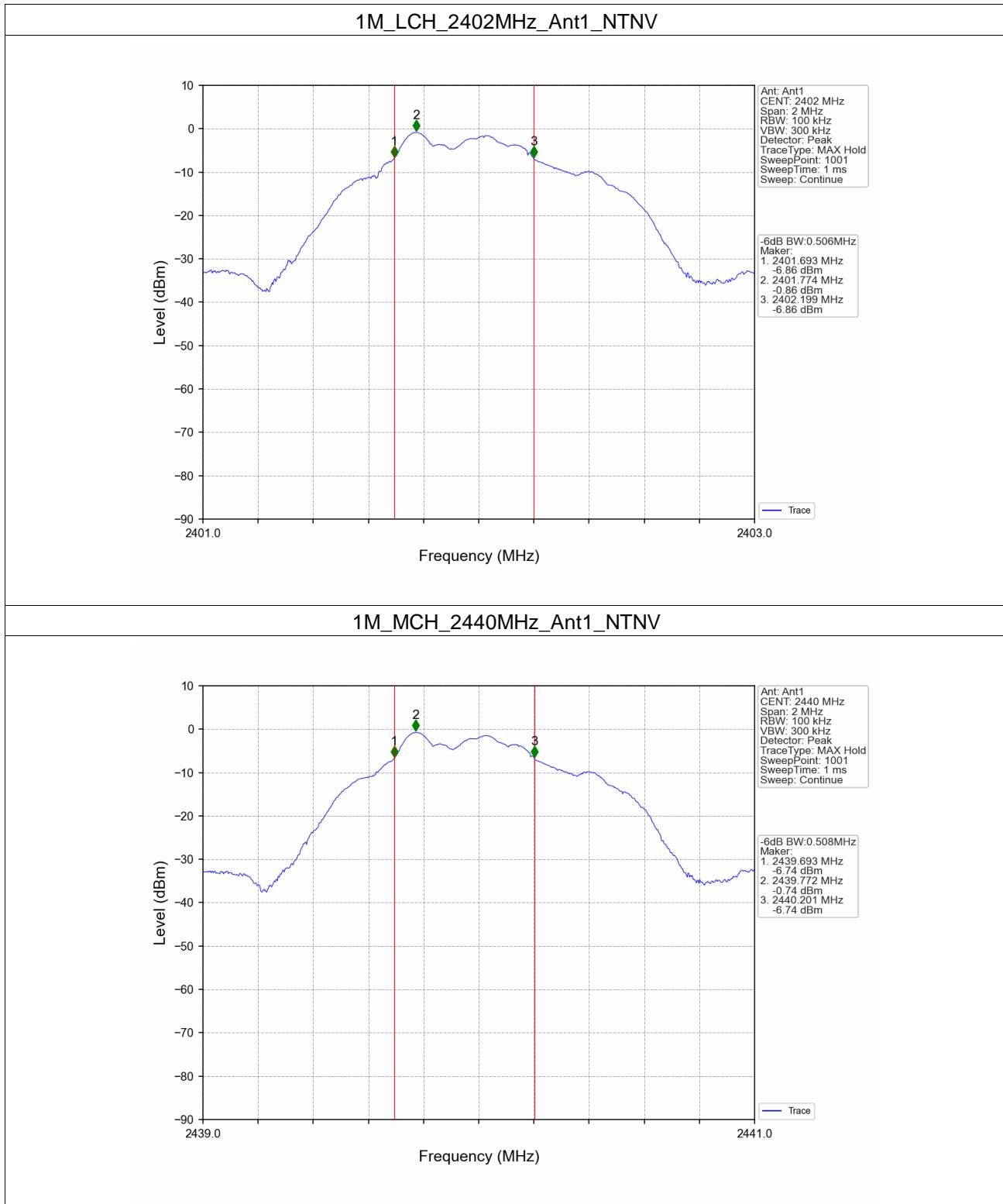


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t (86-20) 82155555 sgs.china@sgs.com

2.1.2 Test Graph



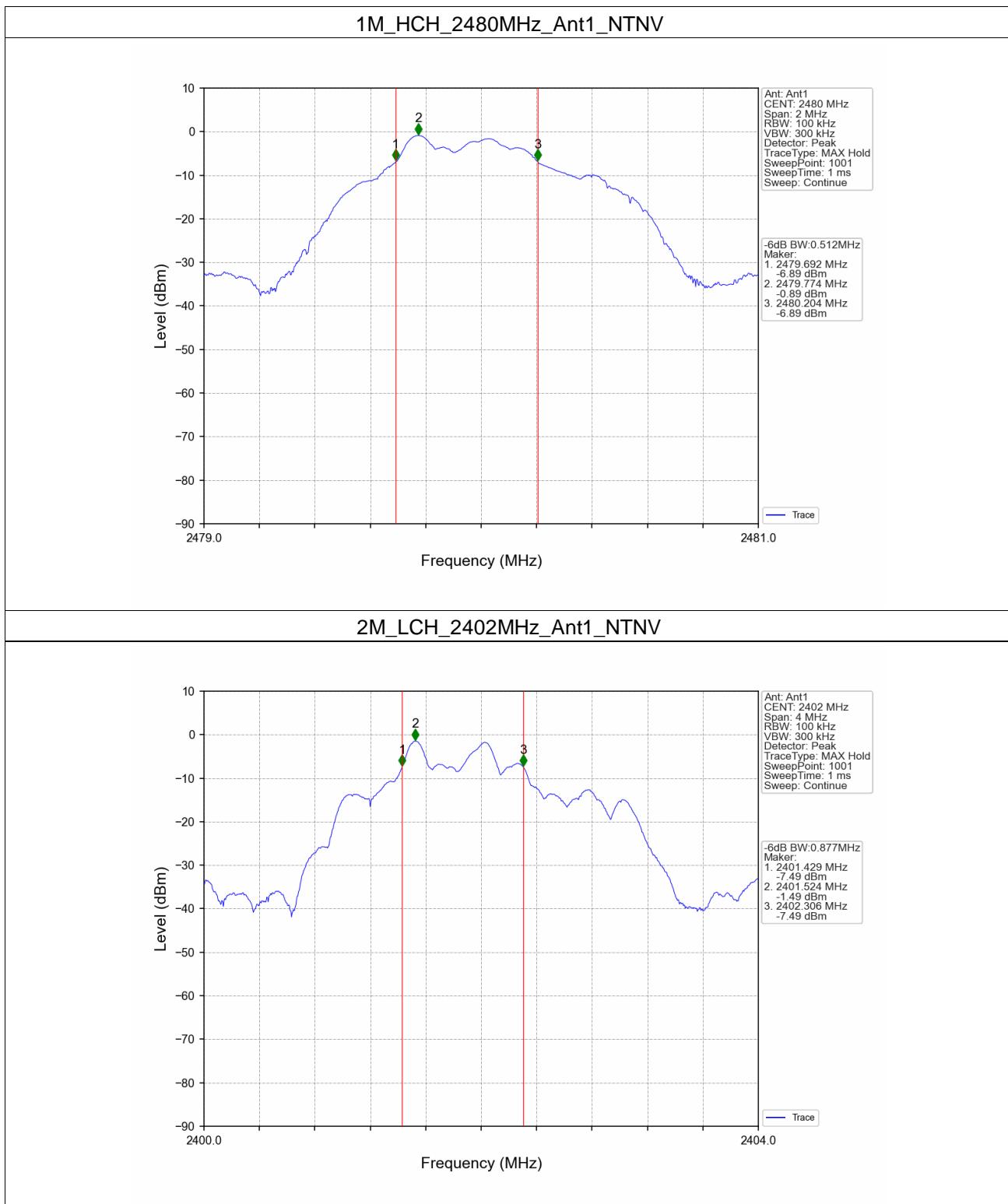
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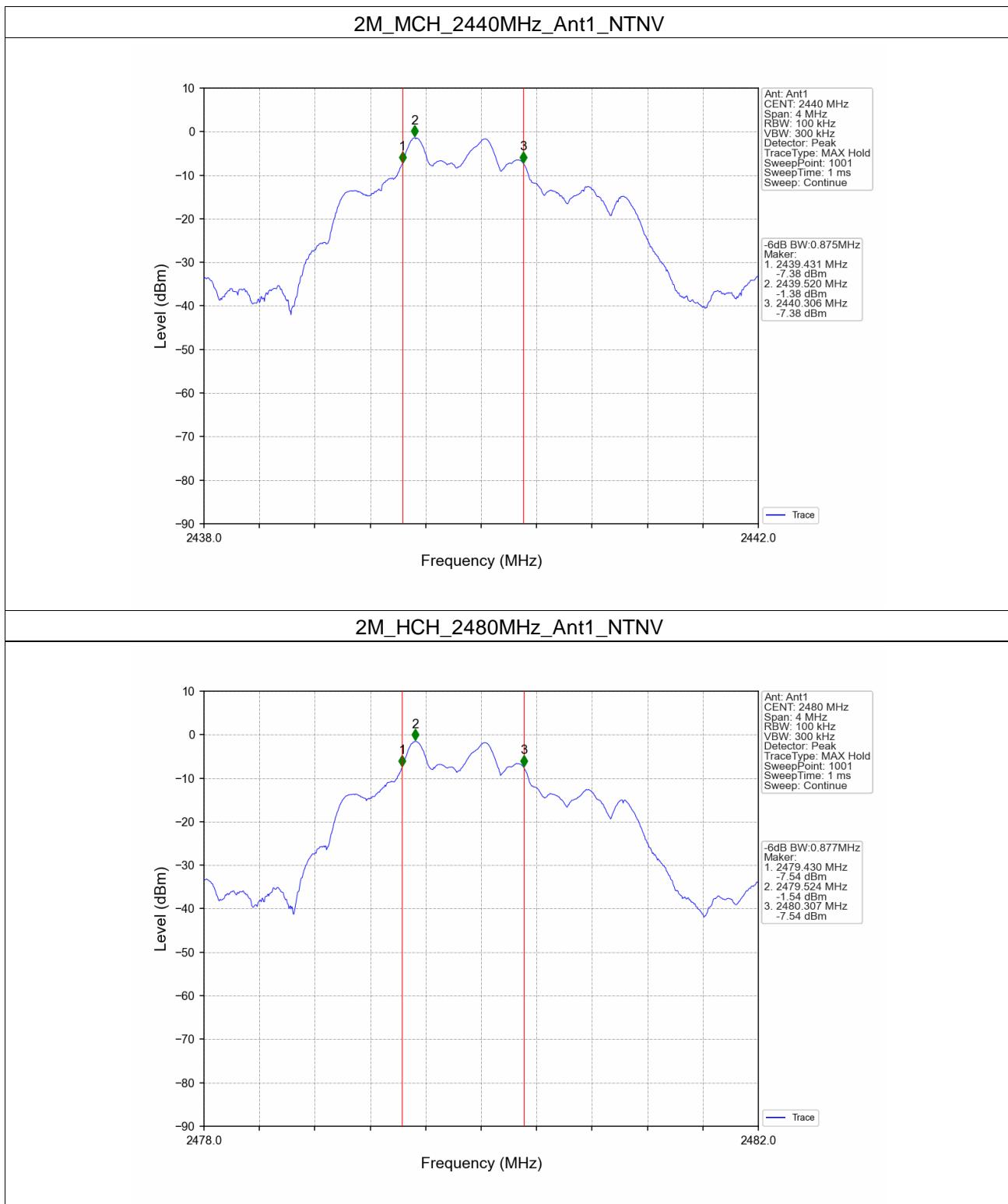
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-0.79	<=30	Pass
		2440	-0.68	<=30	Pass
		2480	-0.82	<=30	Pass
2M	SISO	2402	-0.69	<=30	Pass
		2440	-0.57	<=30	Pass
		2480	-0.72	<=30	Pass



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

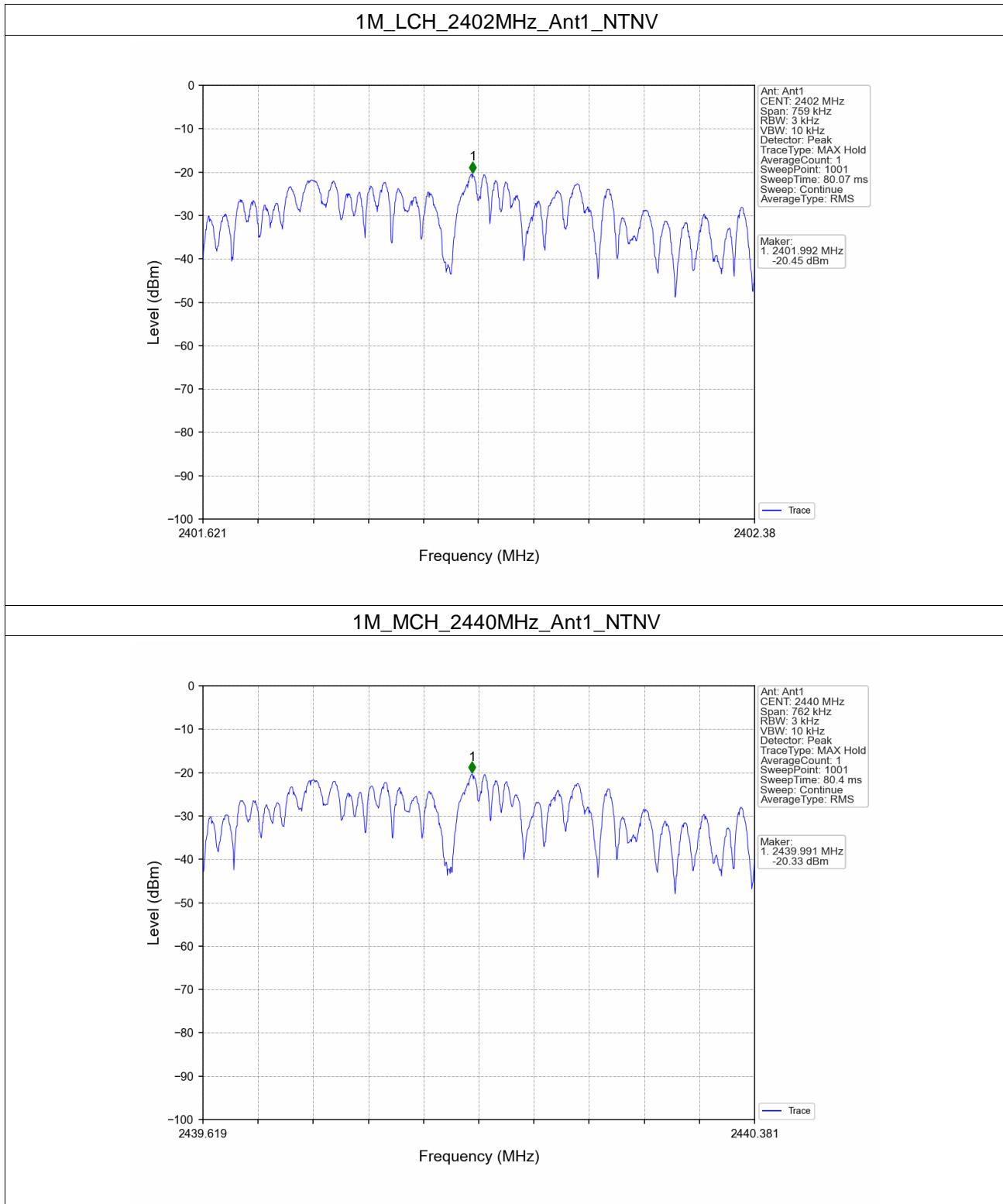
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-20.45	<=8	Pass
		2440	-20.33	<=8	Pass
		2480	-20.61	<=8	Pass
2M	SISO	2402	-23.11	<=8	Pass
		2440	-22.95	<=8	Pass
		2480	-23.13	<=8	Pass



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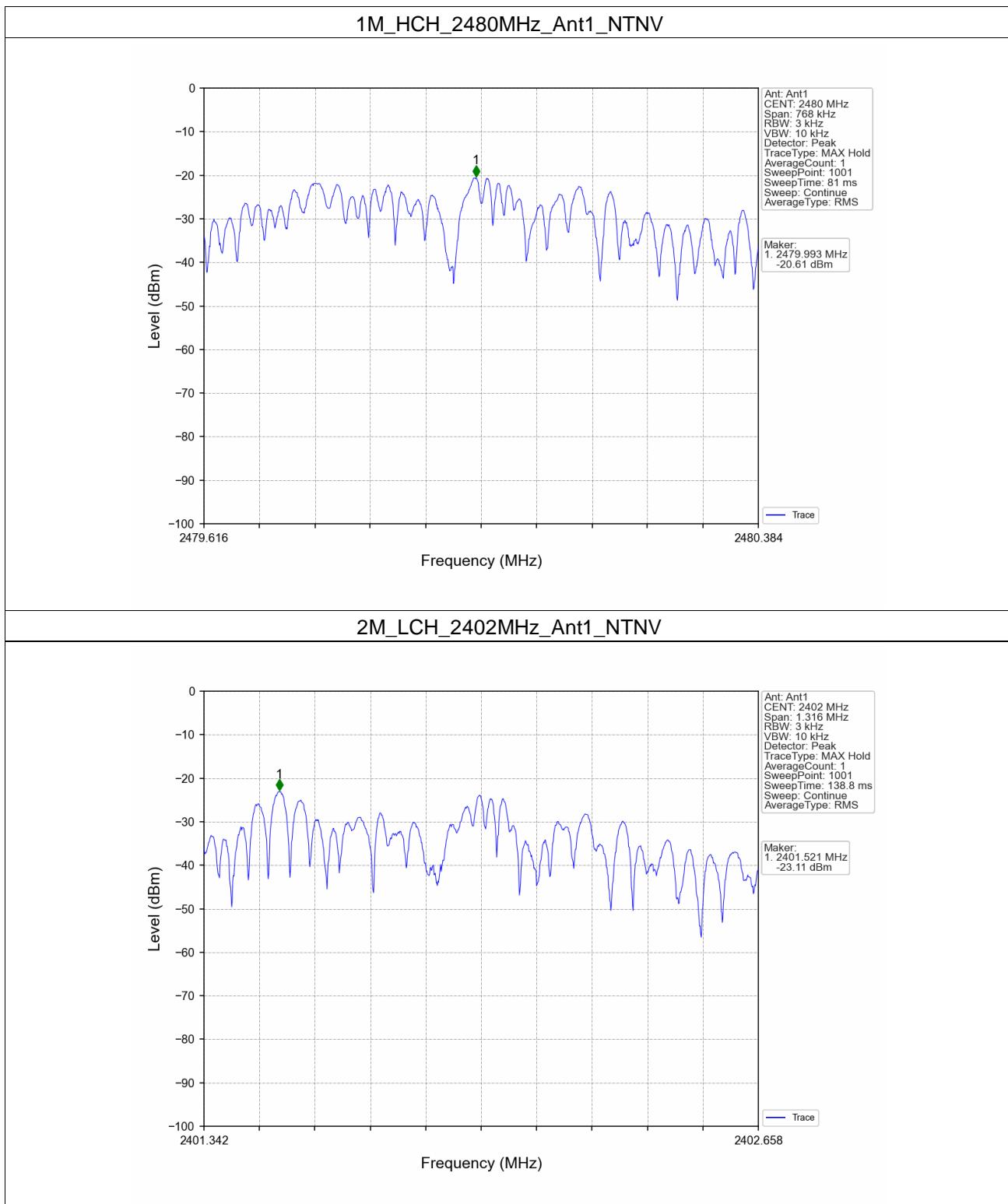
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4.1.2 Test Graph



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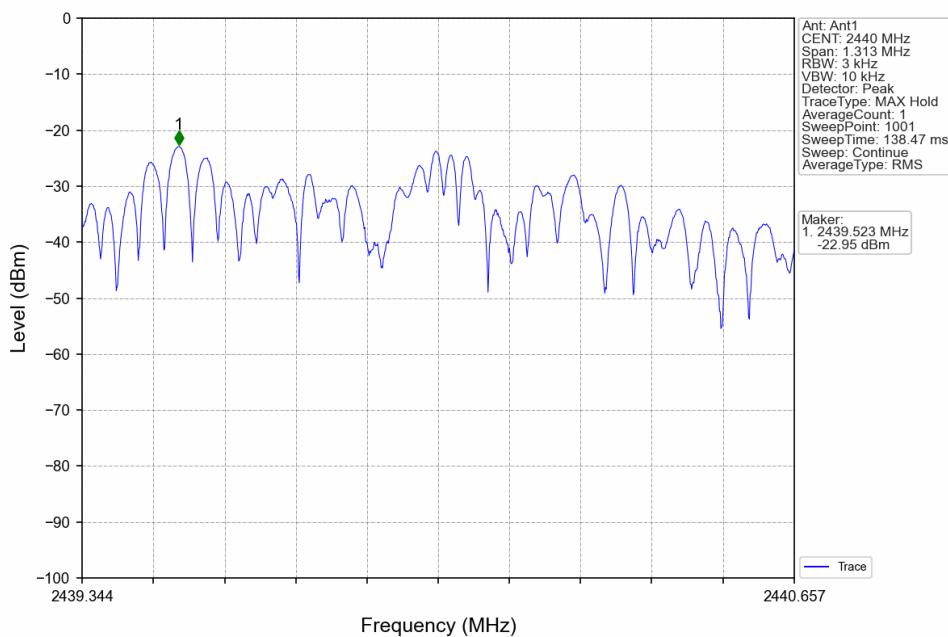
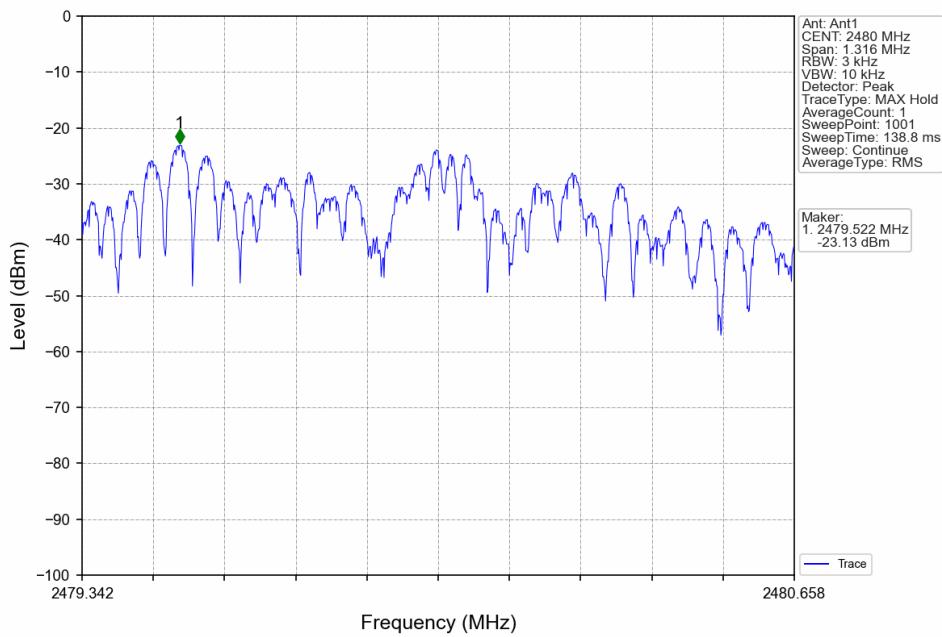
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2M_MCH_2440MHz_Ant1_NTNV**2M_HCH_2480MHz_Ant1_NTNV**

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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

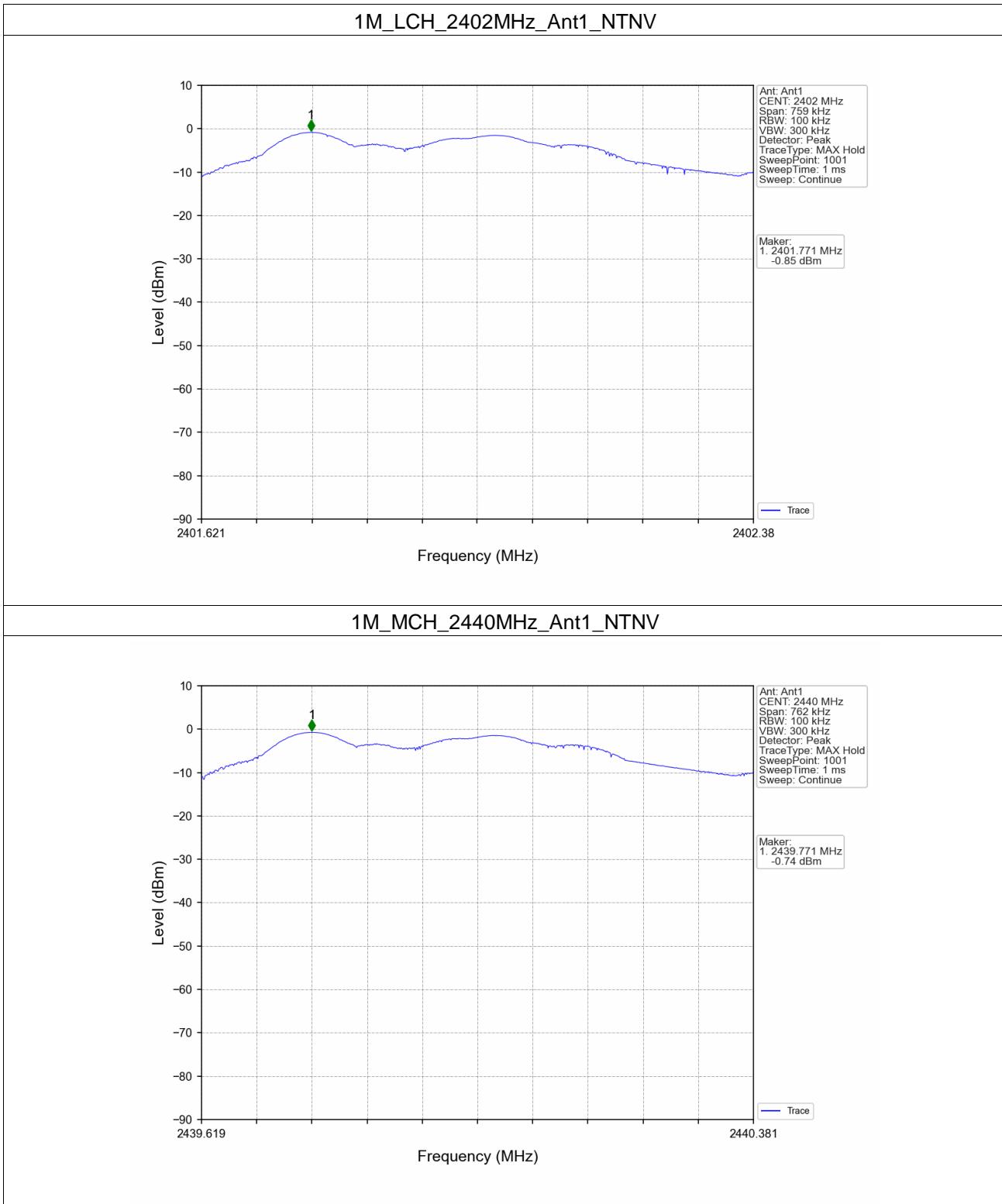
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-0.85
		2440	1	-0.74
		2480	1	-0.88
2M	SISO	2402	1	-1.52
		2440	1	-1.40
		2480	1	-1.56

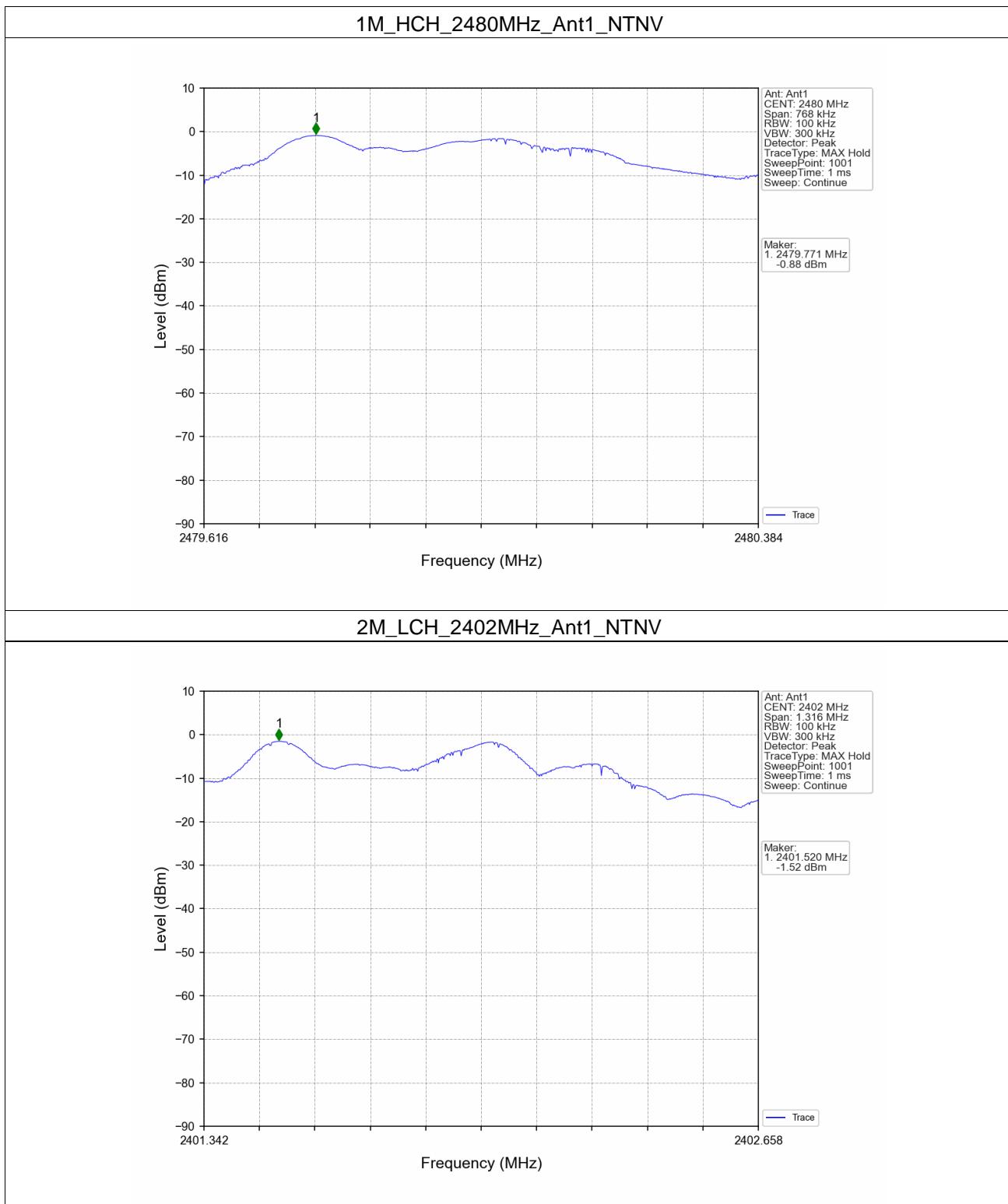
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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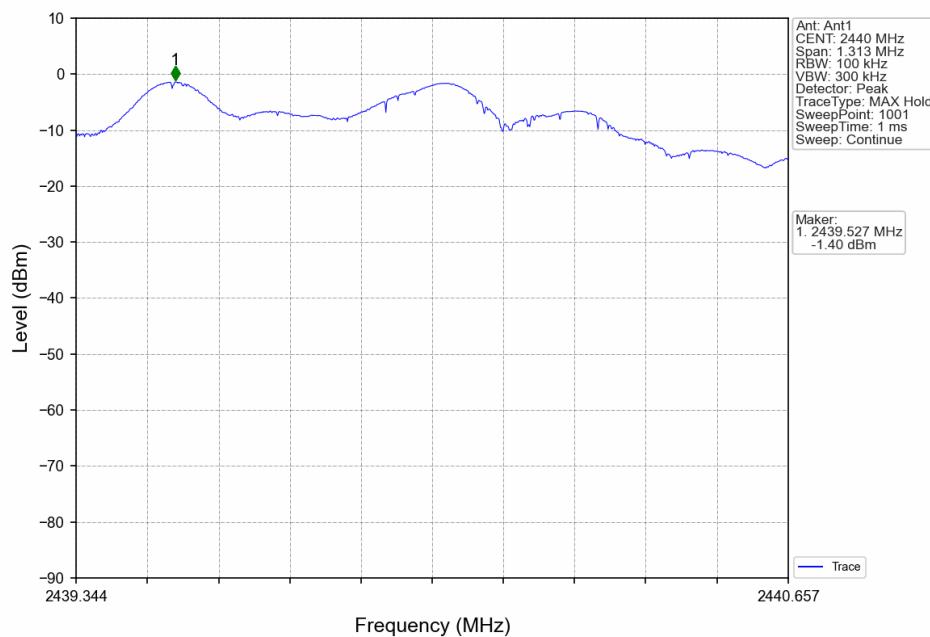
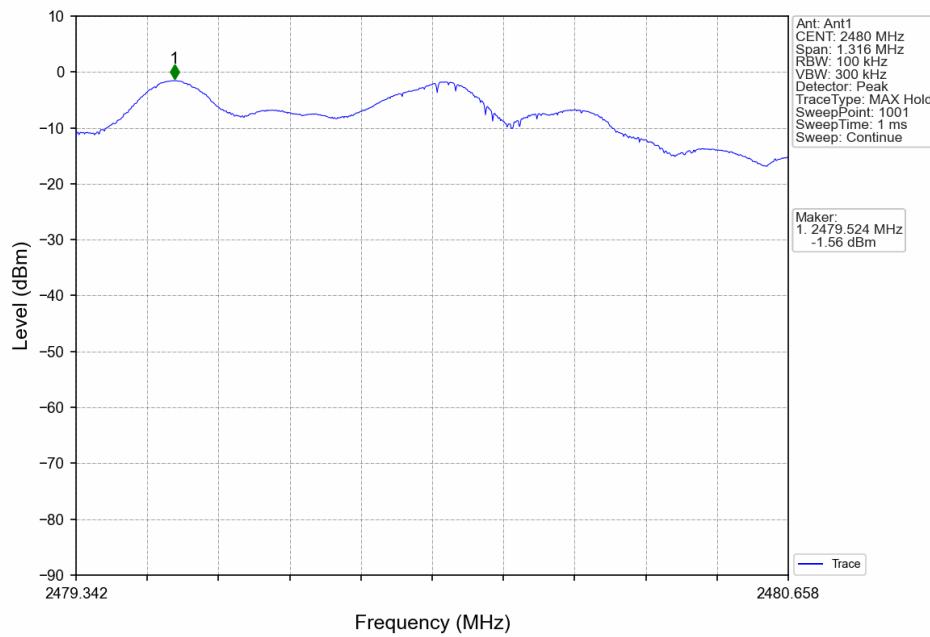
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5.1.2 Test Graph



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5.2 CSE and Band Edges

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-0.74	-20.74	Pass
		2440	1	-0.74	-20.74	Pass
		2480	1	-0.74	-20.74	Pass
2M	SISO	2402	1	-1.40	-21.40	Pass
		2440	1	-1.40	-21.40	Pass
		2480	1	-1.40	-21.40	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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