

TEST REPORT

Application No.: GZCR2406000749HS
Applicant: Echelon Fitness Multimedia, LLC
Address of Applicant: 605 Chestnut Street, Suite 700, Chattanooga, TN 37450
Manufacturer: Echelon Fitness Multimedia, LLC
Address of Manufacturer: 605 Chestnut Street, Suite 700, Chattanooga, TN 37450
Factory: OMA Fitness Equipment Co., Ltd
Address of Factory: 93 Tai An Road South, Yang'e Village, Lunjiao Town, Shunde, Foshan, 528000, Guangdong, China
Product Name: Summit Stairmill s-22
Model No.: ECH-SC-HMS-22, ECH-SC-HMS-XX (X=0~9, X=A~Z) ♣
 ♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark: Echelon
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2024-06-26
Date of Test: 2024-08-06 to 2024-09-20
Date of Issue: 2024-09-24

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

Ricky Liu

Ricky Liu
Manager



Revision Record			
Version	Report No.	Date	Remark
01	GZCR240600074905	2024-09-24	Original

Authorized for issue by:			
		Luke Lin	
		Luke Lin/Project Engineer	
		Vico Cui	
		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
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 11.9.2	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

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.

♣ **Model No.:** ECH-SC-HMS-22, ECH-SC-HMS-XX (X=0~9, X=A~Z)

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 the Model No..

Therefore, only model **ECH-SC-HMS-22** were tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 120V 60Hz
Test voltage: AC 120V 60Hz
Cable(s): AC mains, 3 wires, 2.0m, unshielded.
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 Number: 2 (one for BT and the other for 2.4/5GHz Wi-Fi)
Antenna Type: Integral Antenna
Antenna Gain: 2.68 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.
Wireless Router	TP-LINK	TL-WDR5620	120B531012491



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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
<p>Remark:</p> <p>The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).</p> <p>Emission decision rule:</p> <ul style="list-style-type: none"> – 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,
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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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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	2024-05-13	2025-05-12
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	2023-11-10	2024-11-09
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
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
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

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



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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	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	2023-11-10	2024-11-09
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
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

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2024-08-19	2025-08-18
Test Software	TST	V2.0	GZE100-78	N/A	N/A
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18

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 2.68 dBi.

Antenna location: Refer to internal photo.

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 (dBμV)	
	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: 22.7 °C

Humidity: 55.7 % RH

Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description

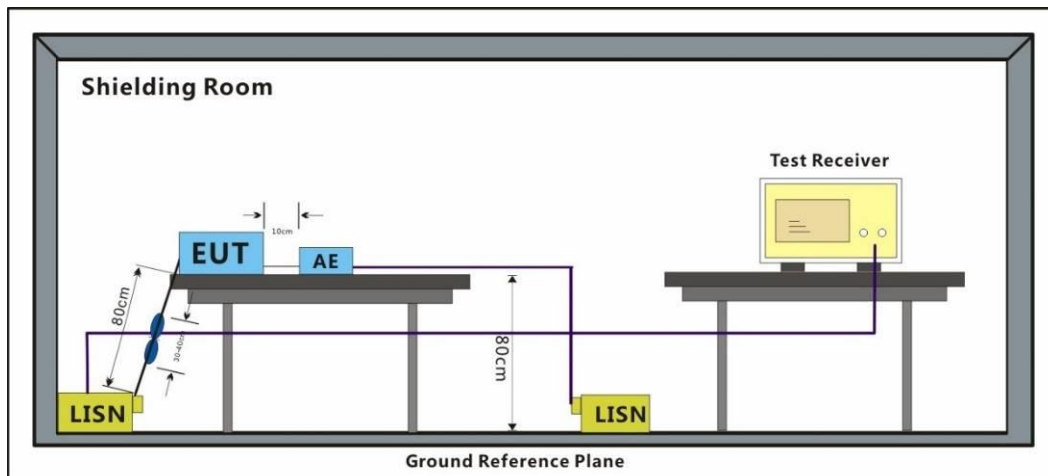
Pre-scan / Mode	Description
Final test Code	

Final test	03
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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.



7.1.3 Test Setup Diagram

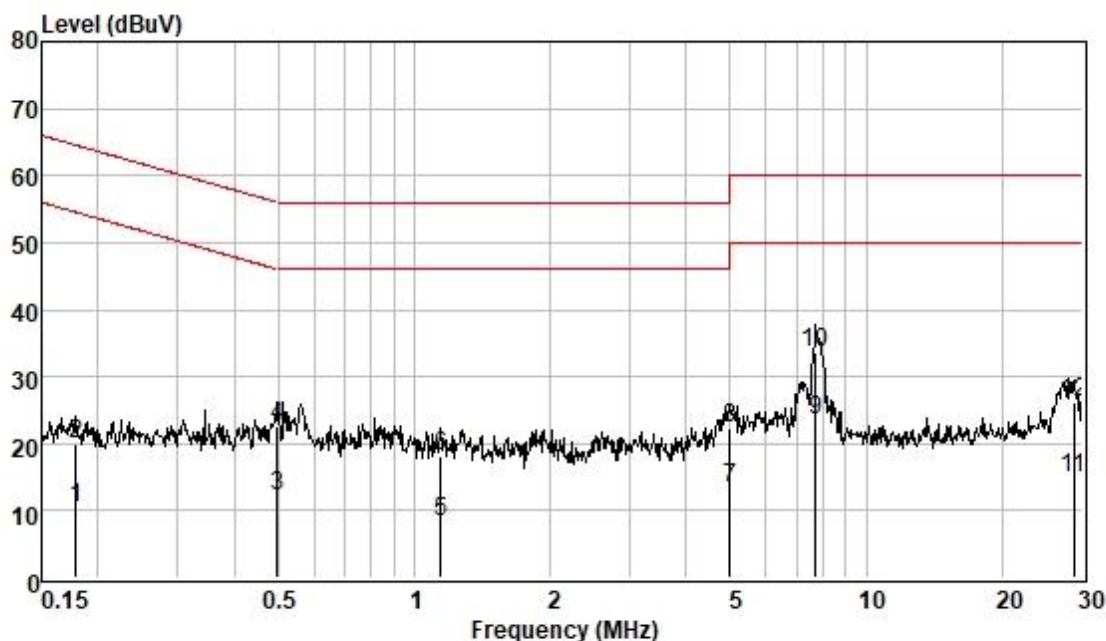


7.1.4 Measurement Procedure and Data

- 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

Test Mode: 03; Line: Live line; M2: (ECH-SC-HMS-22)

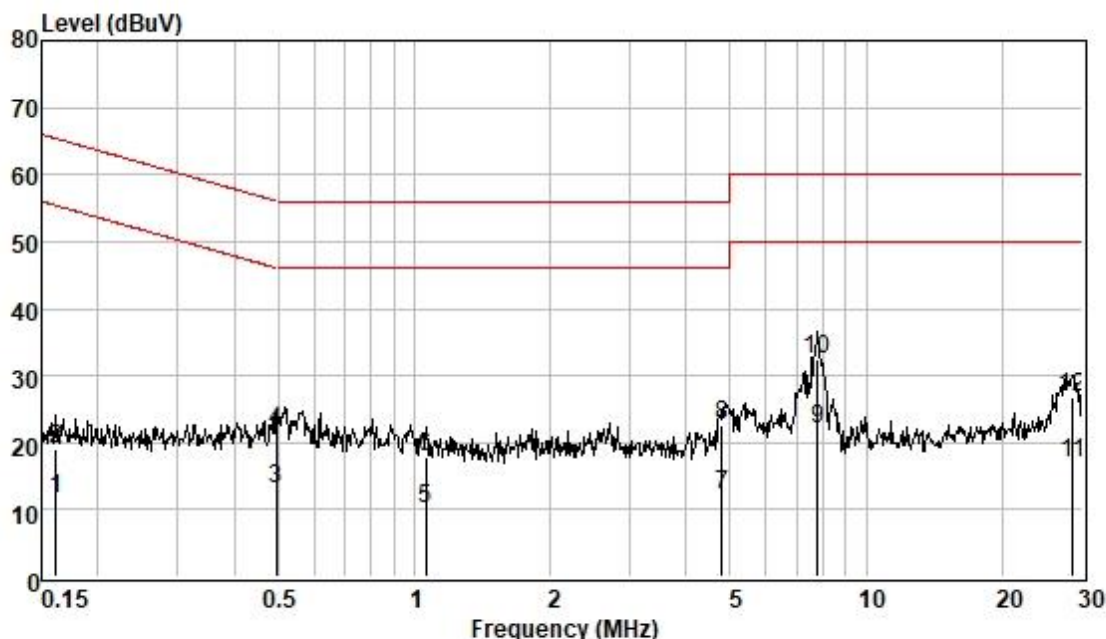


Pol : LINE
Mode : RT
Model : M2(TL03TB)
Power :

	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	ncy	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.179	0.94	0.04	9.55	10.53	54.55	-44.02	Average
2	0.179	10.48	0.04	9.55	20.07	64.55	-44.48	QP
3	0.499	2.48	0.05	9.56	12.09	46.01	-33.92	Average
4	0.499	12.92	0.05	9.56	22.53	56.01	-33.48	QP
5	1.147	-1.20	0.08	9.56	8.44	46.00	-37.56	Average
6	1.147	8.50	0.08	9.56	18.14	56.00	-37.86	QP
7	4.978	3.44	0.20	9.63	13.27	46.00	-32.73	Average
8	4.978	12.38	0.20	9.63	22.21	56.00	-33.79	QP
9	7.728	13.53	0.23	9.70	23.46	50.00	-26.54	Average
10	7.728	23.63	0.23	9.70	33.56	60.00	-26.44	QP
11	28.755	4.49	0.45	9.88	14.82	50.00	-35.18	Average
12	28.755	15.73	0.45	9.88	26.06	60.00	-33.94	QP



Test Mode: 03; Line: Neutral Line; M2: (ECH-SC-HMS-22)



Pol : NEUTRAL
Mode : RT
Model : M2(TL03TB)
Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.162	2.05	0.04	9.52	11.61	55.38	-43.77	Average
2	0.162	9.48	0.04	9.52	19.04	65.38	-46.34	QP
3	0.497	3.53	0.05	9.54	13.12	46.05	-32.93	Average
4	0.497	11.99	0.05	9.54	21.58	56.05	-34.47	QP
5	1.060	0.52	0.07	9.55	10.14	46.00	-35.86	Average
6	1.060	8.27	0.07	9.55	17.89	56.00	-38.11	QP
7	4.797	2.34	0.19	9.62	12.15	46.00	-33.85	Average
8	4.797	12.80	0.19	9.62	22.61	56.00	-33.39	QP
9	7.810	11.93	0.23	9.70	21.86	50.00	-28.14	Average
10	7.810	22.54	0.23	9.70	32.47	60.00	-27.53	QP
11	28.603	6.61	0.45	10.01	17.07	50.00	-32.93	Average
12	28.603	16.18	0.45	10.01	26.64	60.00	-33.36	QP



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: 25.6 °C Humidity: 51.0 % RH Atmospheric Pressure: 1004 mbar

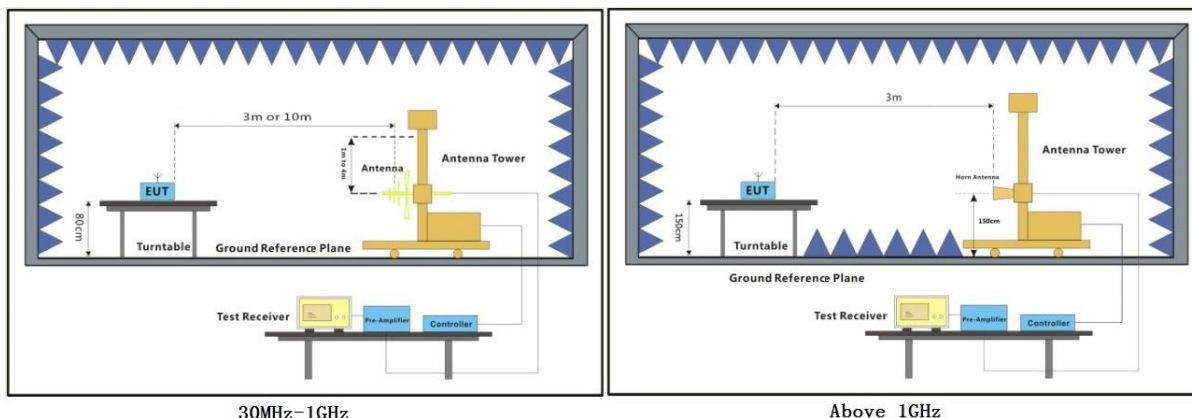
7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	

Final test	03	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

- 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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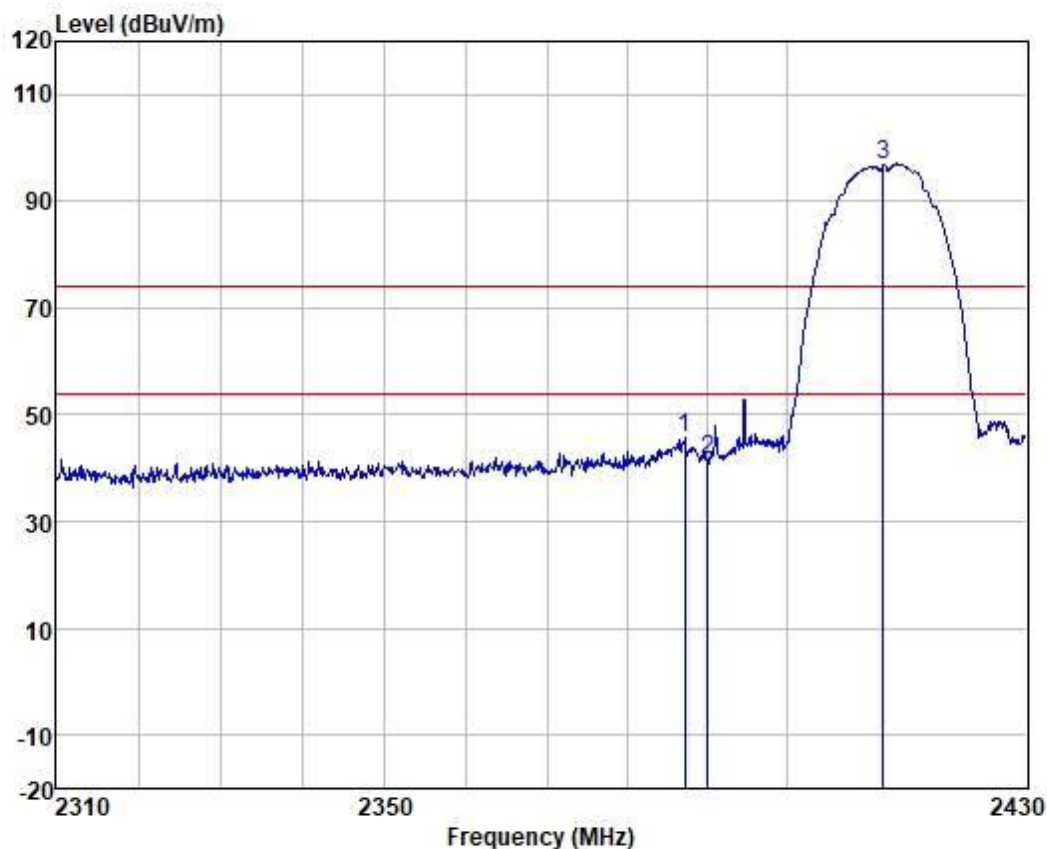
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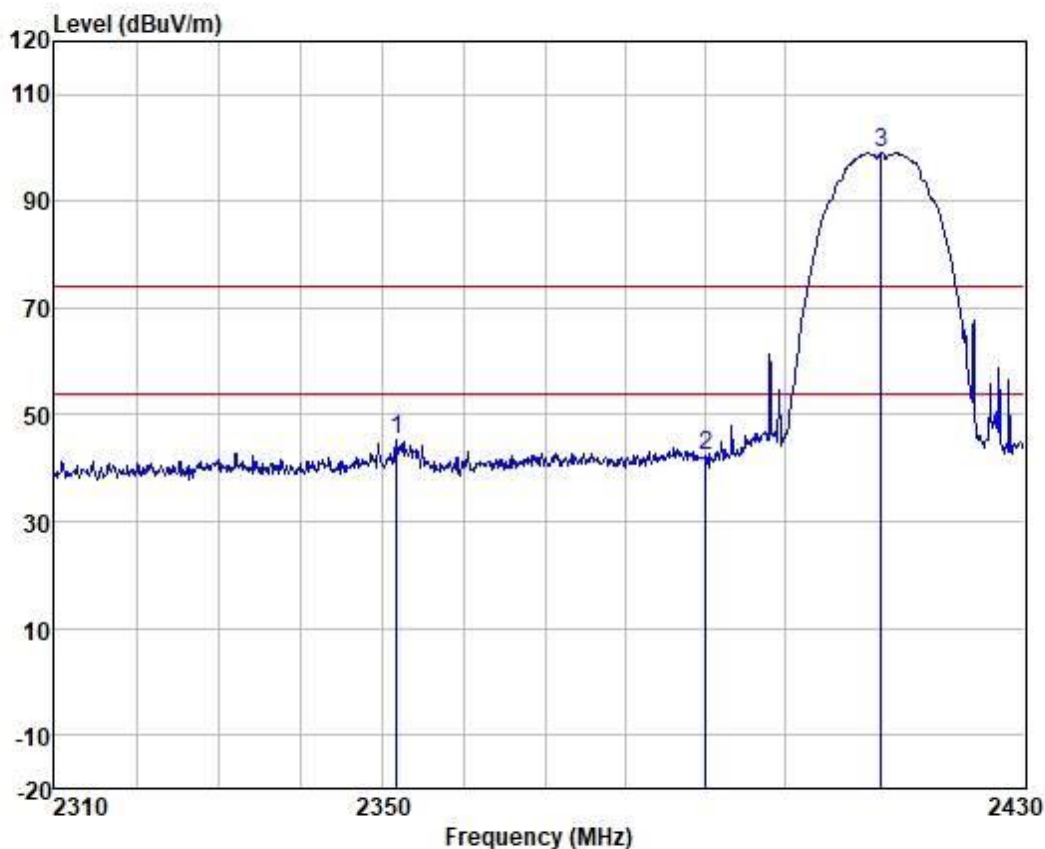
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	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2387.186	51.53	27.68	3.54	37.22	45.53	74.00	-28.47	VERTICAL peak
2	2390.000	47.61	27.68	3.54	37.21	41.62	74.00	-32.38	VERTICAL peak
3 *	2412.000	102.68	27.74	3.58	37.21	96.79	74.00	22.79	VERTICAL peak



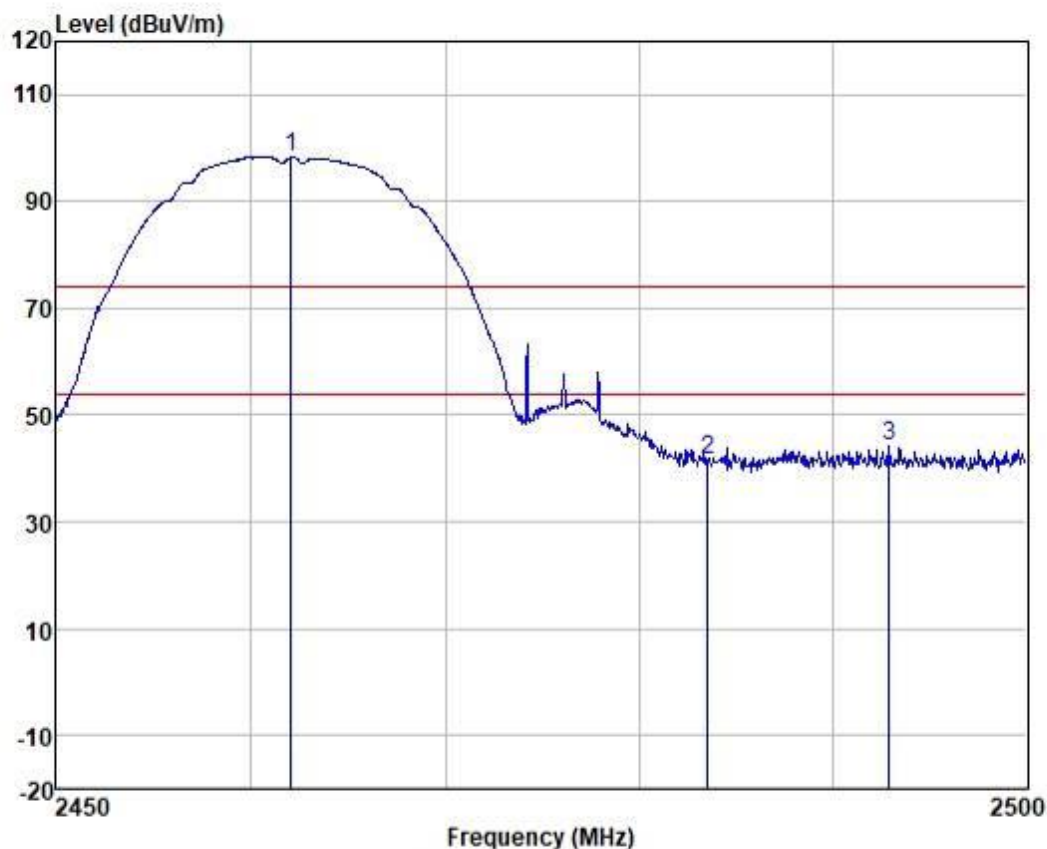
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	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Loss	Factor	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2351.668	51.32	27.61	3.50	37.23	45.20	74.00	-28.80	HORIZONTAL peak
2	2390.000	48.19	27.68	3.54	37.21	42.20	74.00	-31.80	HORIZONTAL peak
3 *	2412.000	104.94	27.74	3.58	37.21	99.05	74.00	25.05	HORIZONTAL peak



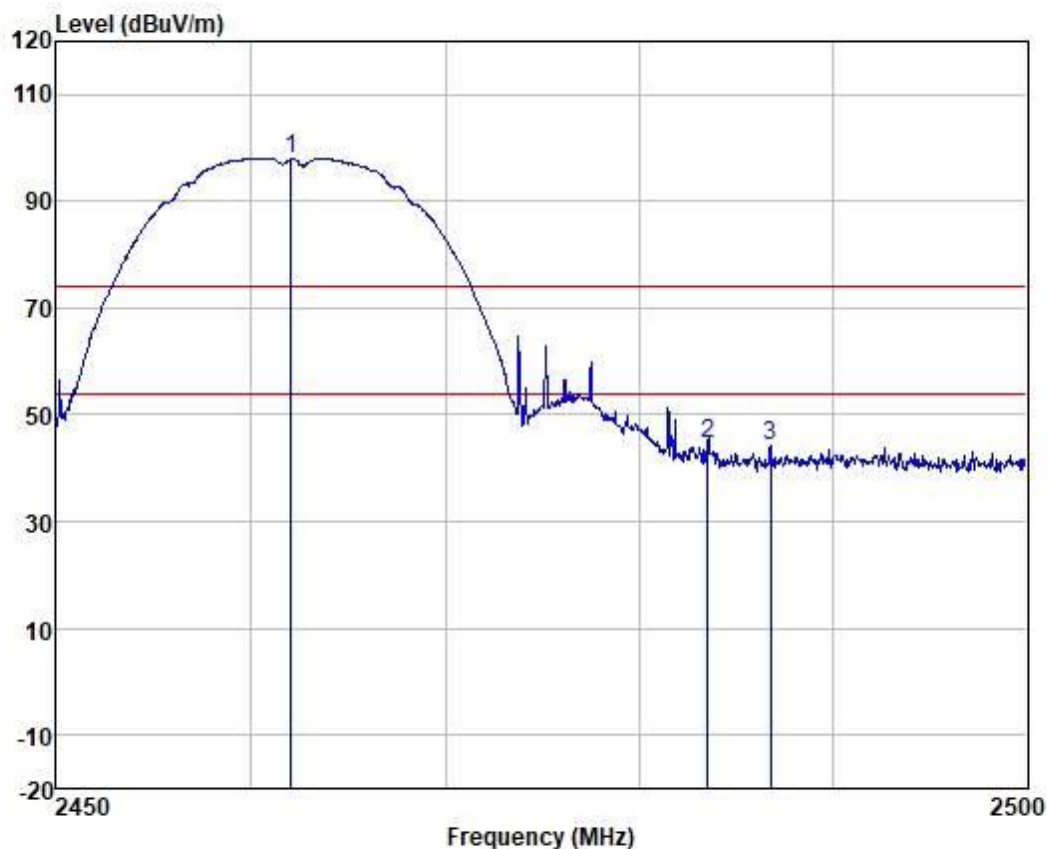
Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2462.000	104.02	27.82	3.69	37.20	98.33	74.00	24.33
2	2483.500	47.34	27.85	3.74	37.19	41.74	74.00	-32.26
3	2492.939	49.73	27.86	3.75	37.18	44.16	74.00	-29.84
								VERTICAL
								peak
								peak
								peak

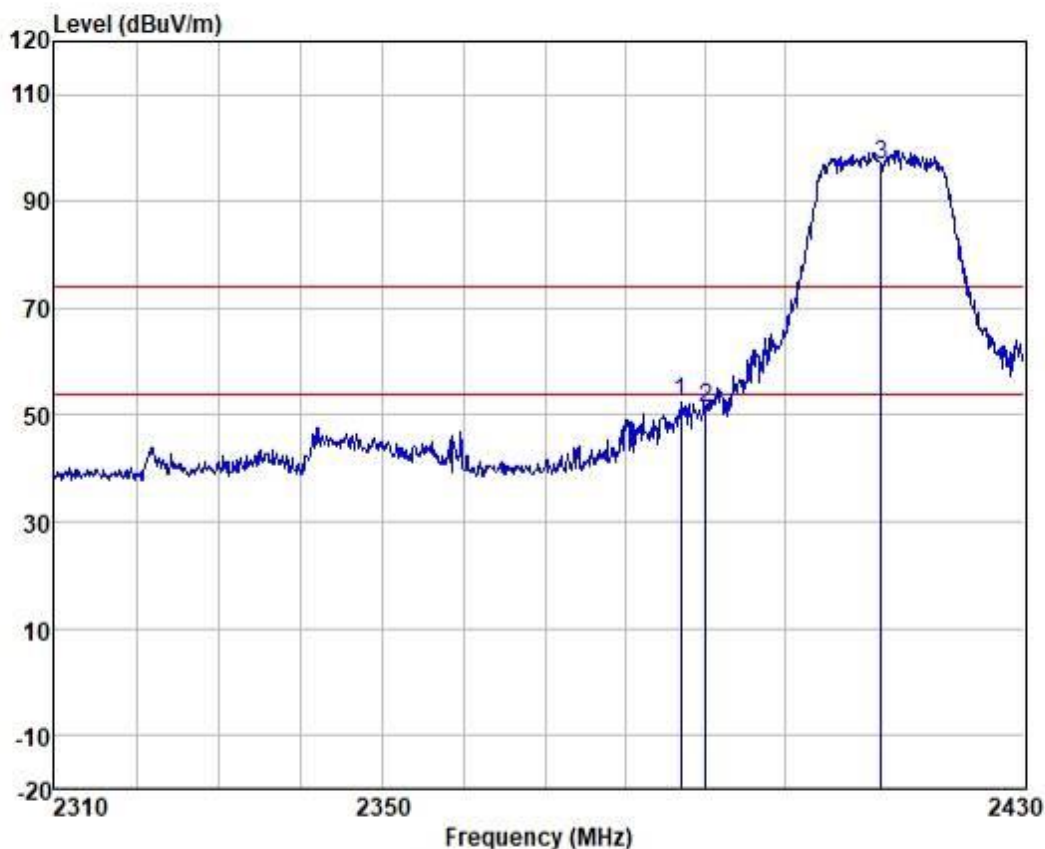


Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Loss	Factor	dBuV/m	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	2462.000	103.75	27.82	3.69	37.20	98.06	74.00	24.06	HORIZONTAL peak
2	2483.500	50.37	27.85	3.74	37.19	44.77	74.00	-29.23	HORIZONTAL peak
3	2486.752	49.83	27.85	3.74	37.19	44.23	74.00	-29.77	HORIZONTAL peak

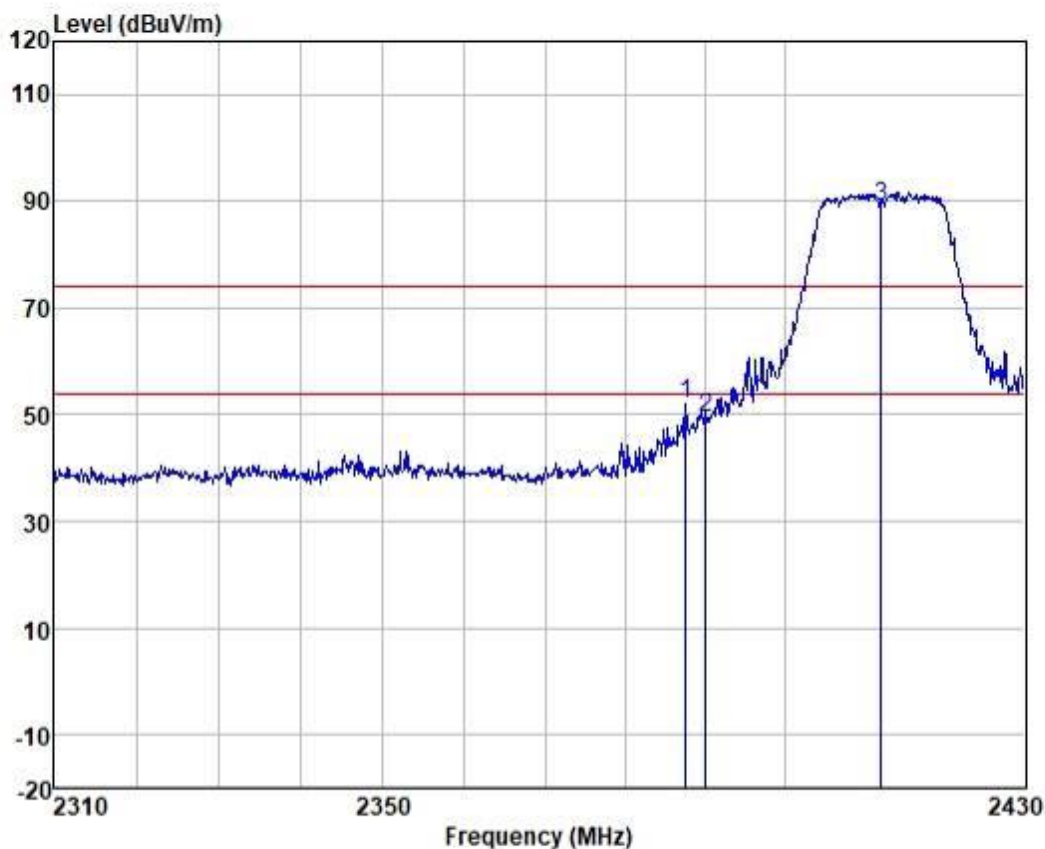
Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Loss	Factor	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2386.944	58.49	27.68	3.54	37.22	52.49	74.00	-21.51	VERTICAL peak
2	2390.000	57.15	27.68	3.54	37.21	51.16	74.00	-22.84	VERTICAL peak
3 *	2412.000	102.82	27.74	3.58	37.21	96.93	74.00	22.93	VERTICAL peak



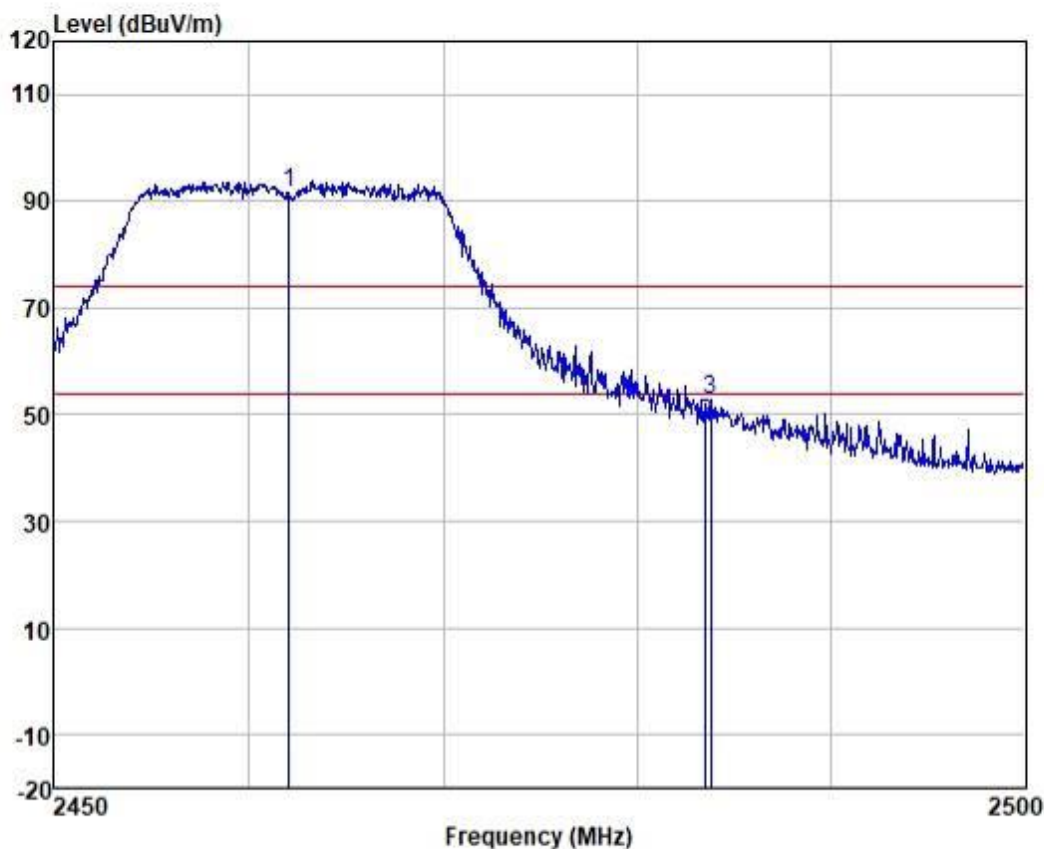
Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2387.549	58.23	27.68	3.54	37.22	52.23	74.00	-21.77	HORIZONTAL peak
2	2390.000	55.35	27.68	3.54	37.21	49.36	74.00	-24.64	HORIZONTAL peak
3	2412.000	95.06	27.74	3.58	37.21	89.17	74.00	15.17	HORIZONTAL peak

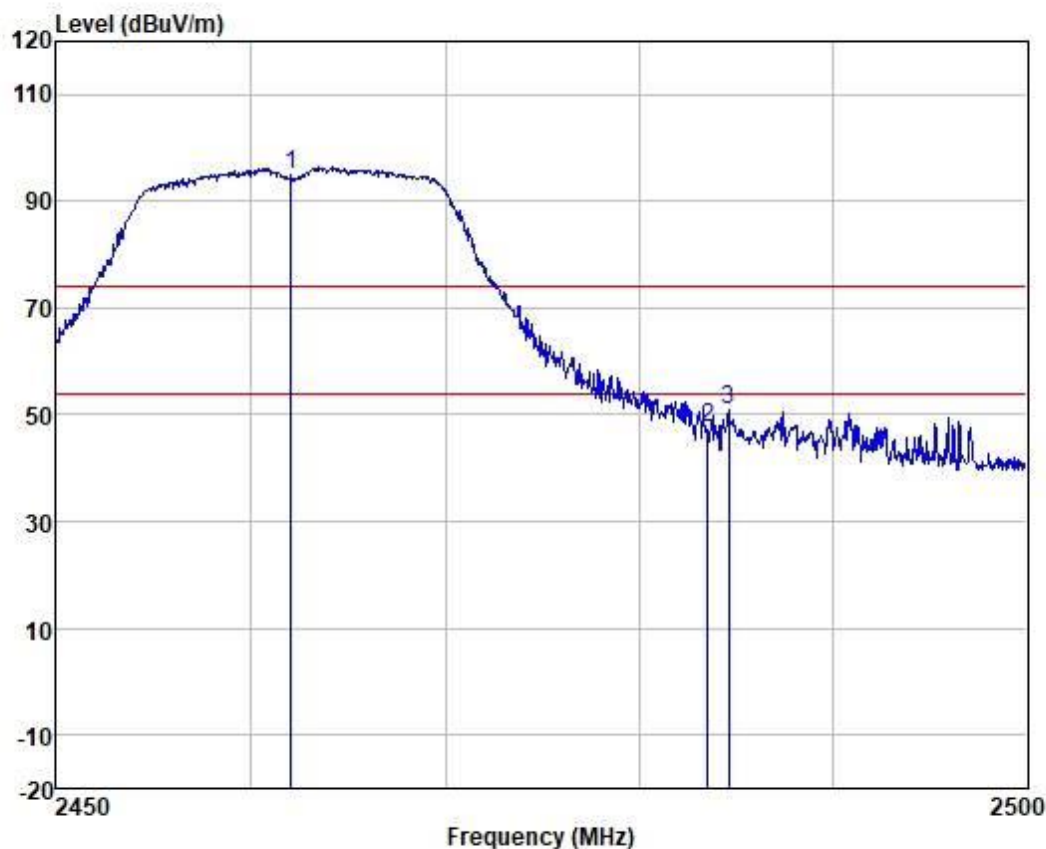


Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2462.000	97.22	27.82	3.69	37.20	91.53	74.00	17.53	VERTICAL peak
2	2483.500	54.05	27.85	3.74	37.19	48.45	74.00	-25.55	VERTICAL peak
3	2483.740	58.48	27.85	3.74	37.19	52.88	74.00	-21.12	VERTICAL peak

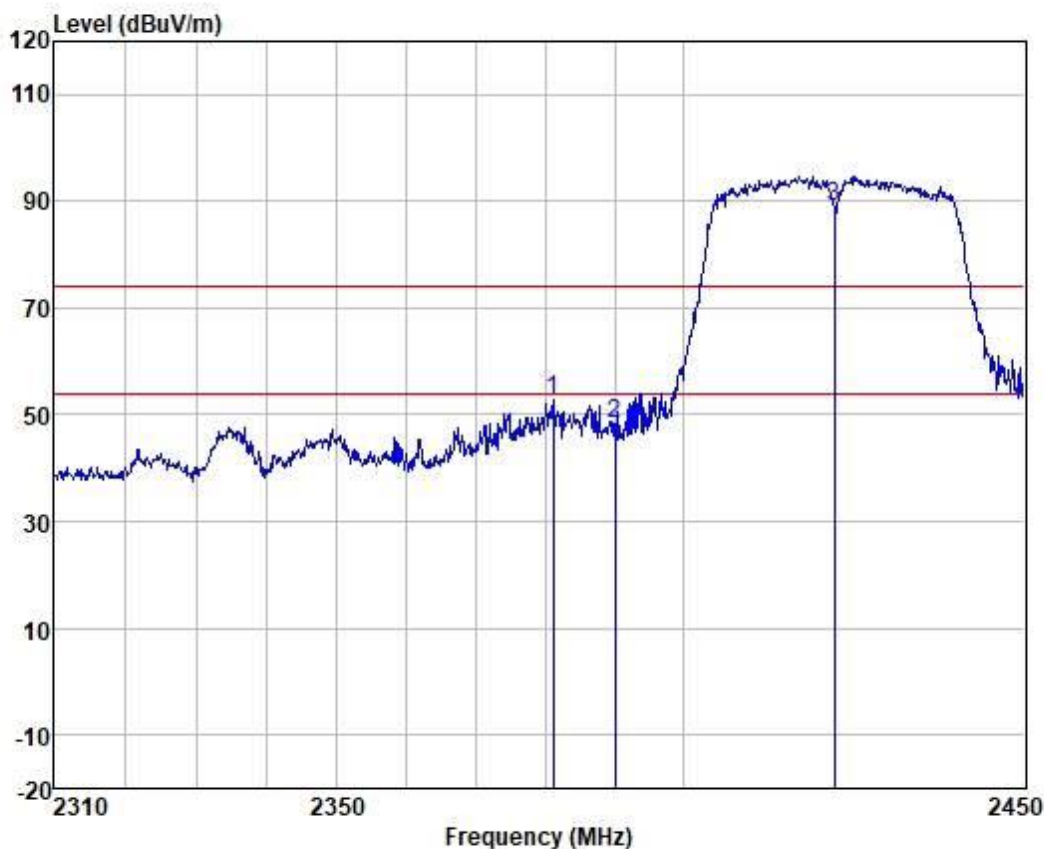
Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Loss	Factor	dBuV/m	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	2462.000	100.77	27.82	3.69	37.20	95.08	74.00	21.08	HORIZONTAL peak
2	2483.500	53.12	27.85	3.74	37.19	47.52	74.00	-26.48	HORIZONTAL peak
3	2484.593	56.40	27.85	3.74	37.19	50.80	74.00	-23.20	HORIZONTAL peak



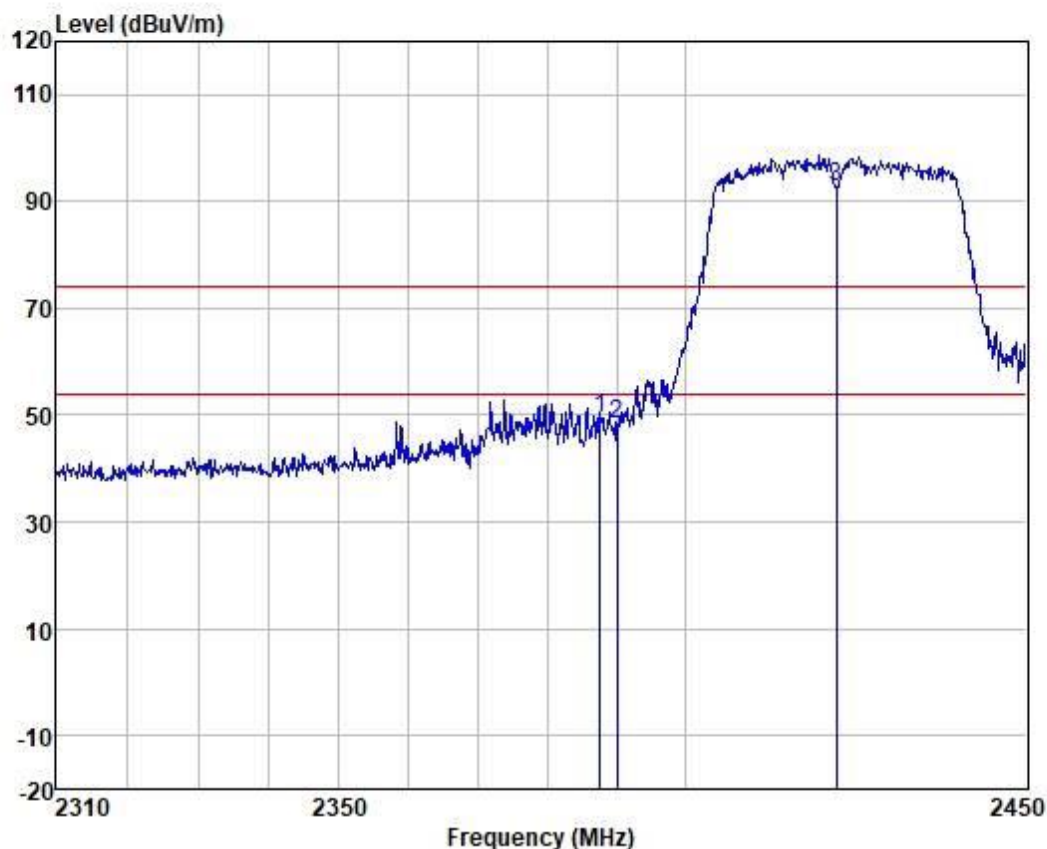
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
		dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2381.071	58.71	27.67	3.53	37.22	52.69	74.00	-21.31	VERTICAL peak
2	2390.000	54.21	27.68	3.54	37.21	48.22	74.00	-25.78	VERTICAL peak
3 *	2422.000	95.02	27.75	3.60	37.21	89.16	74.00	15.16	VERTICAL peak



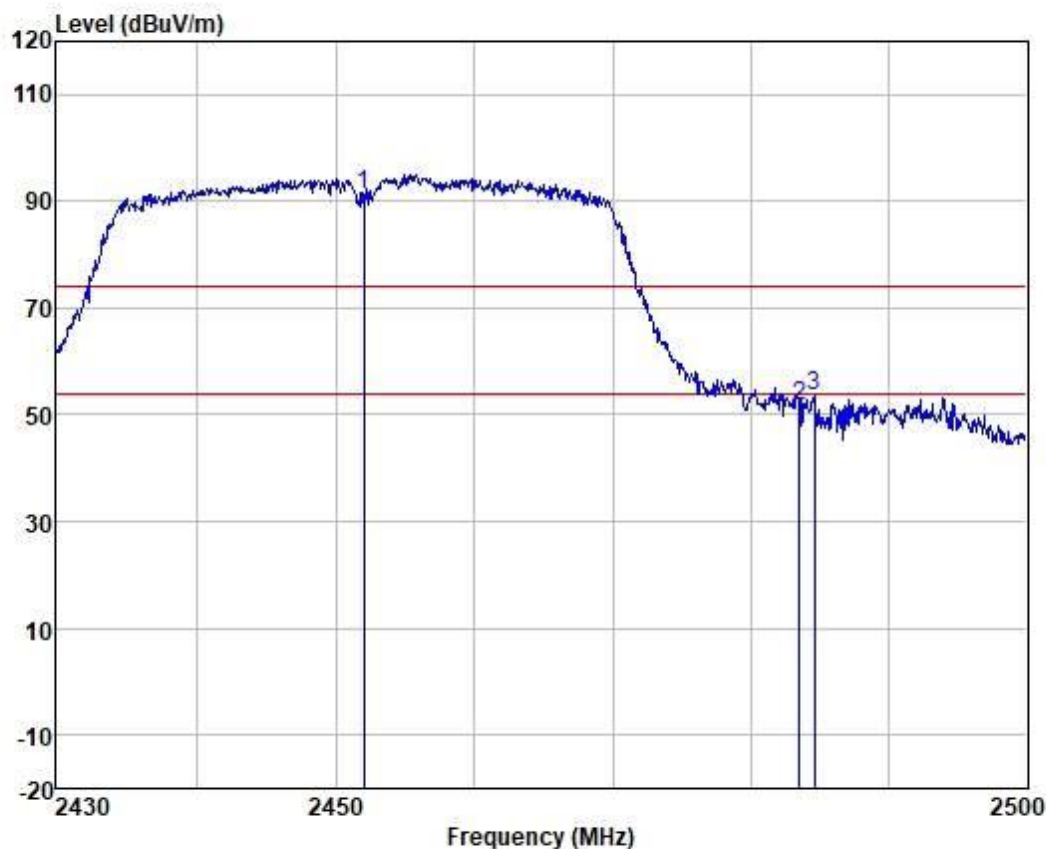
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Loss	Factor	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2387.524	55.59	27.68	3.54	37.22	49.59	74.00	-24.41	HORIZONTAL peak
2	2390.000	54.16	27.68	3.54	37.21	48.17	74.00	-25.83	HORIZONTAL peak
3 *	2422.000	98.71	27.75	3.60	37.21	92.85	74.00	18.85	HORIZONTAL peak



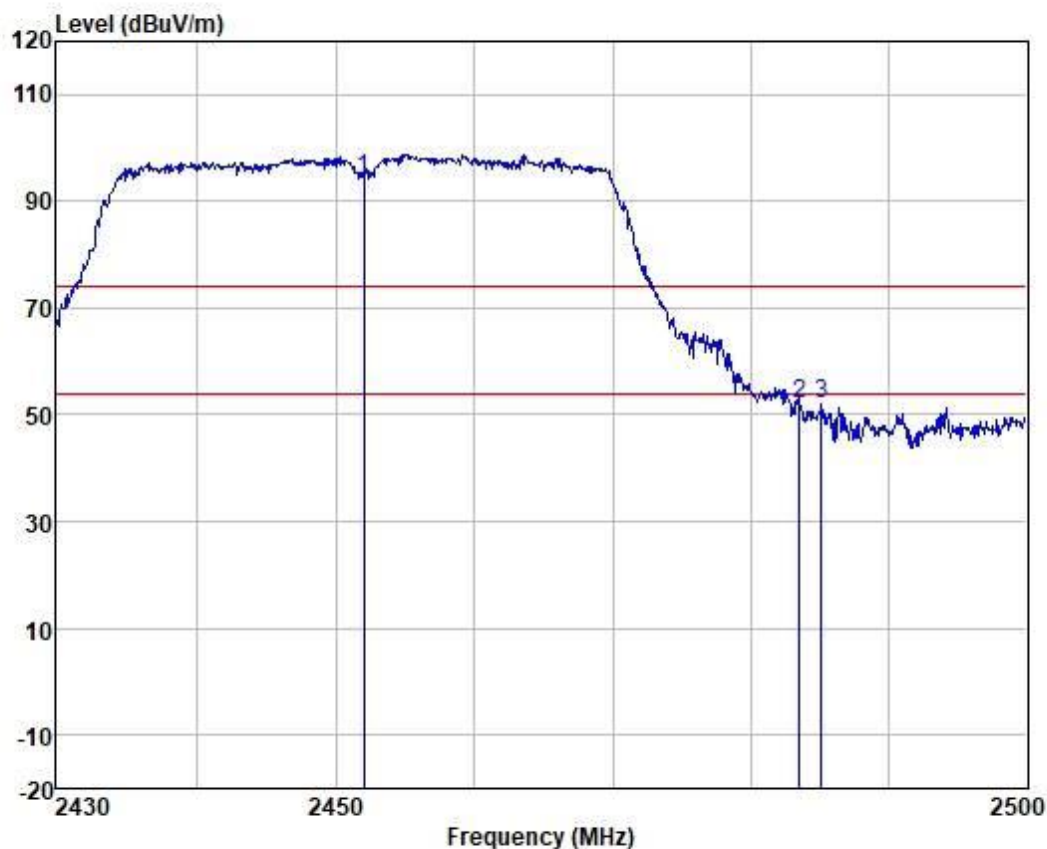
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2452.000	96.98	27.80	3.66	37.20	91.24	74.00	17.24	VERTICAL peak
2	2483.500	57.46	27.85	3.74	37.19	51.86	74.00	-22.14	VERTICAL peak
3	2484.570	59.19	27.85	3.74	37.19	53.59	74.00	-20.41	VERTICAL peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Loss	Factor	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1 *	2452.000	100.09	27.80	3.66	37.20	94.35	74.00	20.35	HORIZONTAL peak
2	2483.500	57.74	27.85	3.74	37.19	52.14	74.00	-21.86	HORIZONTAL peak
3	2485.135	57.83	27.85	3.74	37.19	52.23	74.00	-21.77	HORIZONTAL peak



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: 23.4 °C

Humidity: 52.0 % RH

Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

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.

Final test 03



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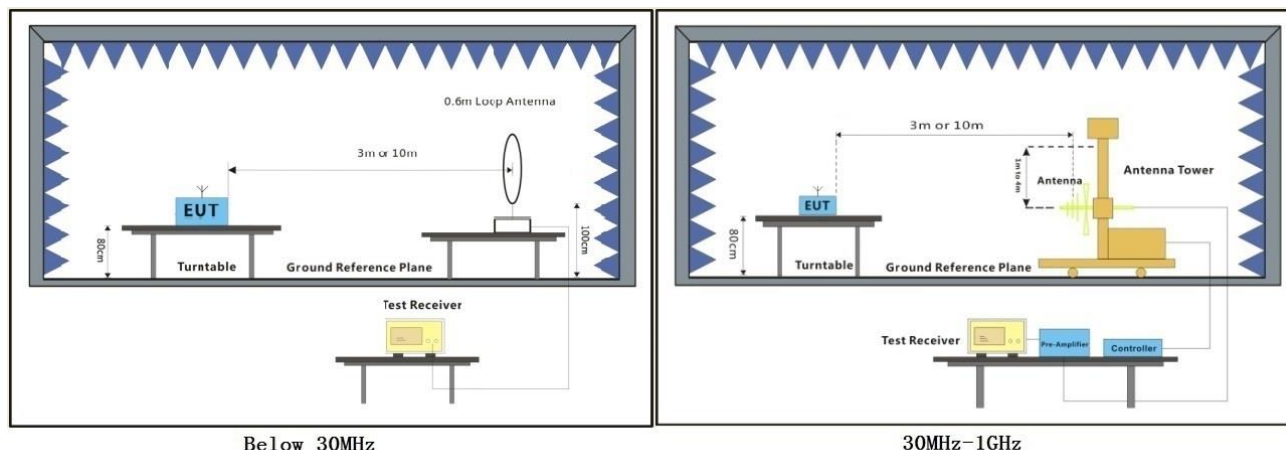
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7.3.3 Test Setup Diagram



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:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 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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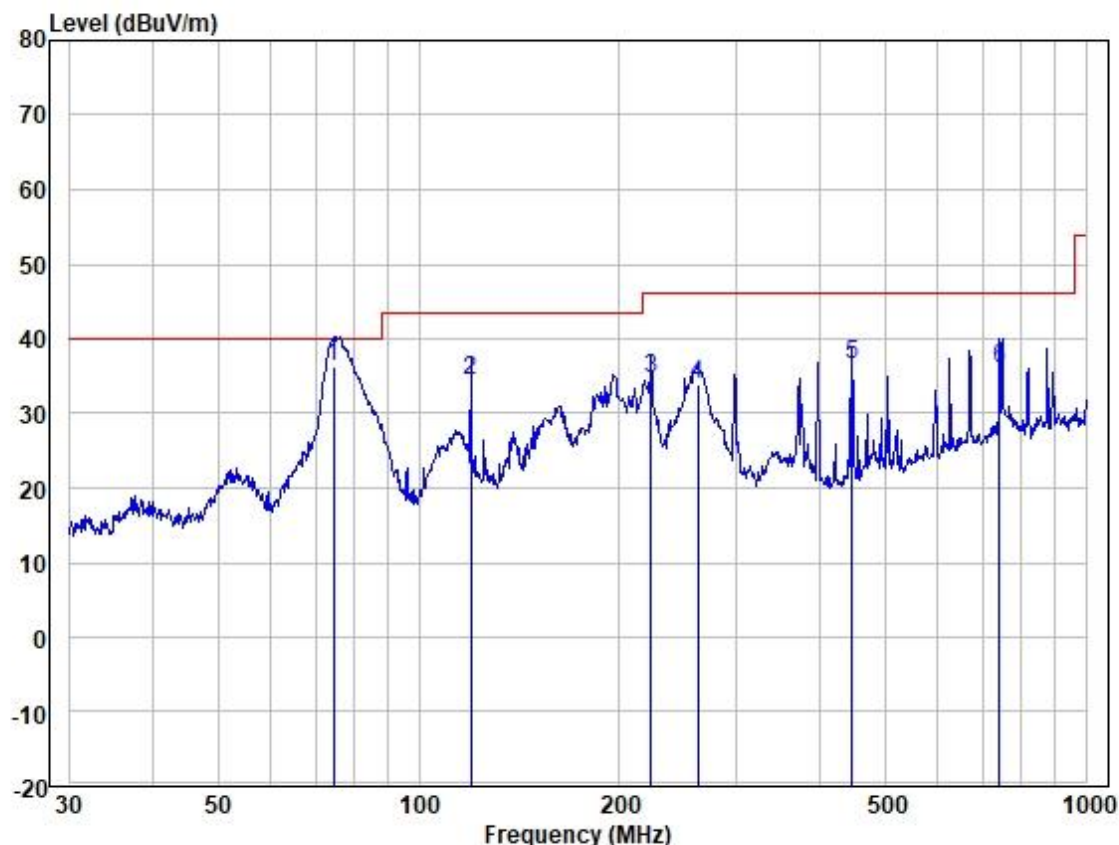
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Test Mode: 03; Polarity: Horizontal

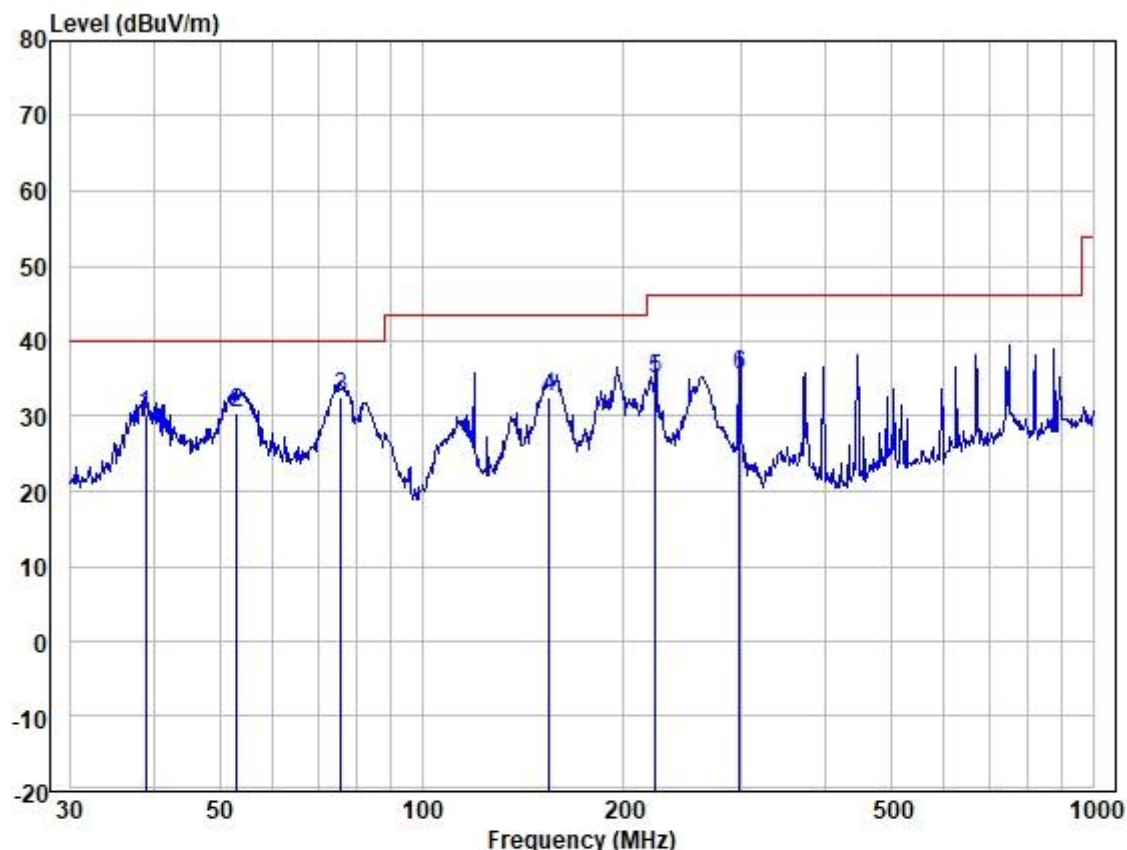


Site : 966 Chamber
Job :
Model : TL03TB
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	74.657	52.38	16.25	0.48	32.84	36.27	40.00	-3.73	HORIZONTAL	QP
2	119.856	49.39	17.26	0.60	32.80	34.45	43.52	-9.07	HORIZONTAL	QP
3	222.950	50.94	15.84	0.82	32.85	34.75	46.02	-11.27	HORIZONTAL	QP
4	261.975	47.88	17.87	0.93	32.87	33.81	46.02	-12.21	HORIZONTAL	QP
5	446.414	45.68	22.62	1.21	32.97	36.54	46.02	-9.48	HORIZONTAL	QP
6	742.259	38.99	27.81	1.58	32.48	35.90	46.02	-10.12	HORIZONTAL	QP



Test Mode: 03; Polarity: Vertical



Site : 966 Chamber
Job :
Model : TL03TB
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	38.888	43.73	18.93	0.35	32.86	30.15	40.00	-9.85	VERTICAL	QP
2	53.131	43.48	19.39	0.40	32.88	30.39	40.00	-9.61	VERTICAL	QP
3	75.711	48.70	16.07	0.48	32.84	32.41	40.00	-7.59	VERTICAL	QP
4	154.821	45.55	19.16	0.69	32.82	32.58	43.52	-10.94	VERTICAL	QP
5	222.950	51.00	15.84	0.82	32.85	34.81	46.02	-11.21	VERTICAL	QP
6	297.224	48.18	19.19	0.98	32.88	35.47	46.02	-10.55	VERTICAL	QP



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: 25.6 °C

Humidity: 51.0 % RH

Atmospheric Pressure: 1004 mbar

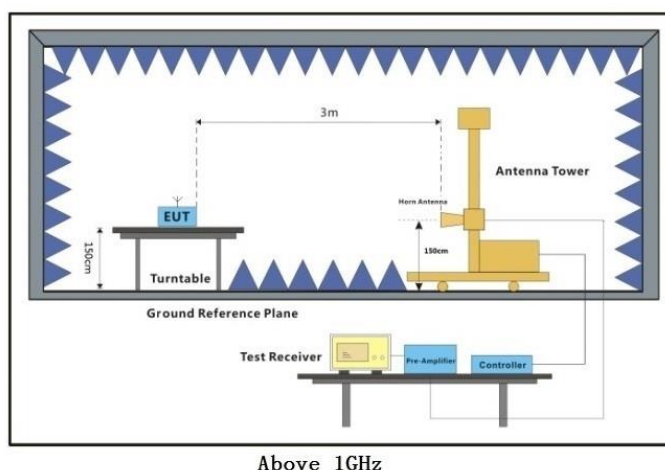
7.4.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

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.

Final test 03

7.4.3 Test Setup Diagram



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.



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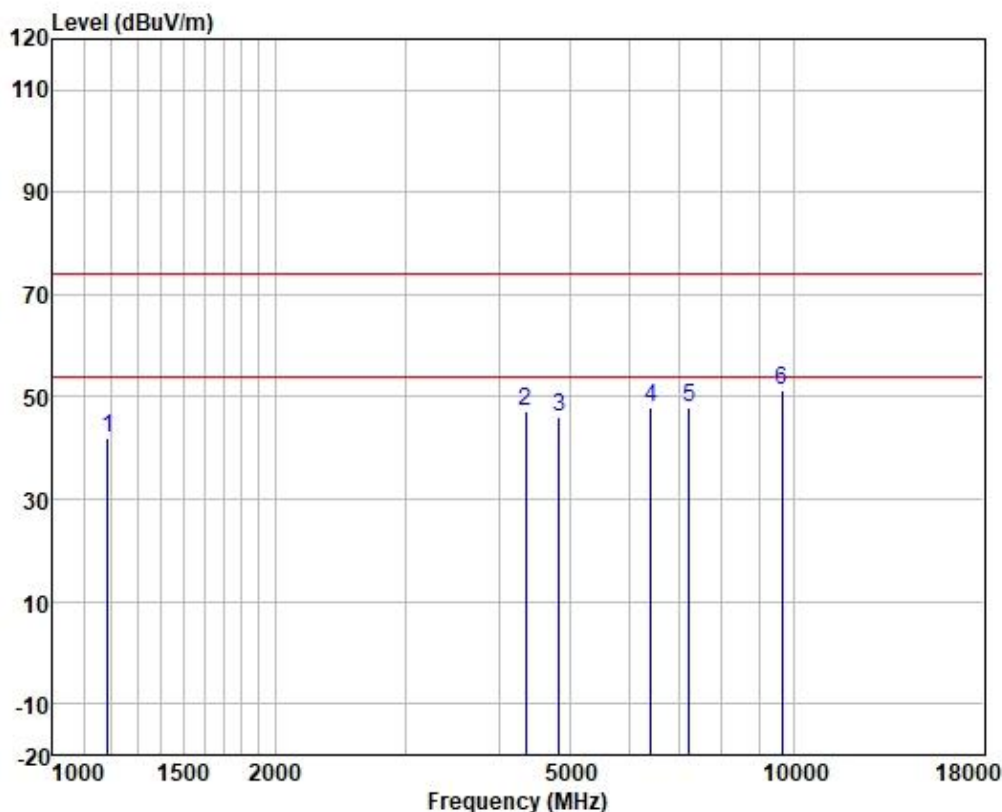
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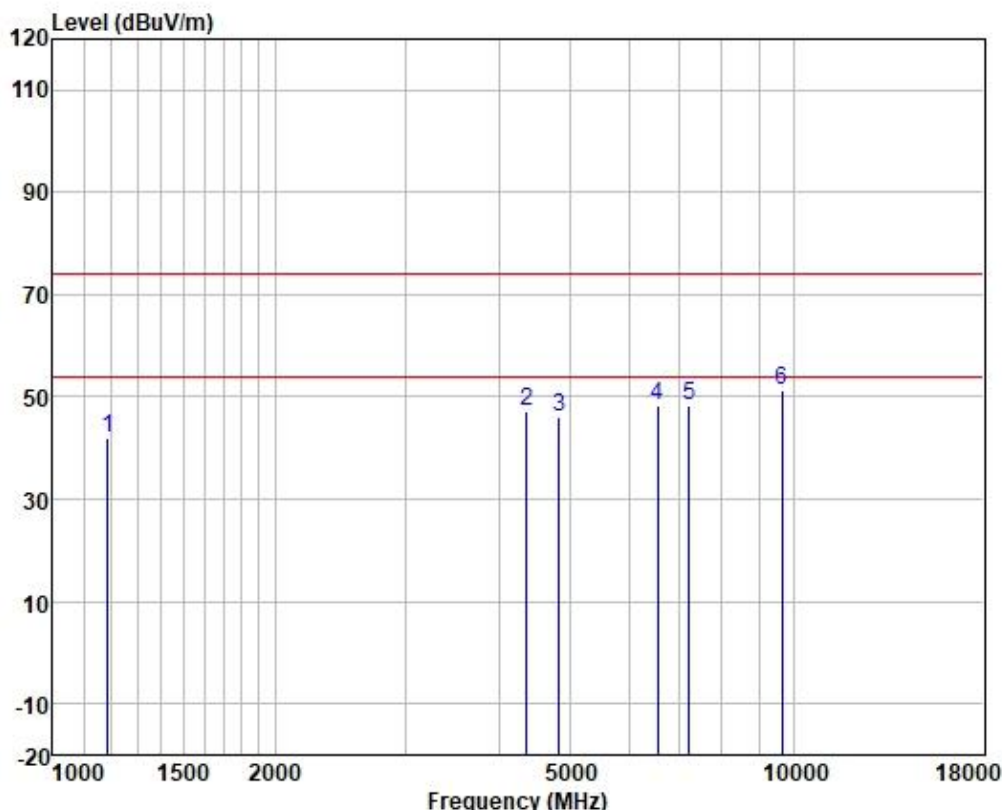
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	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1185.936	54.03	23.07	2.54	37.65	41.99	74.00	-32.01	VERTICAL peak
2	4354.454	44.72	33.43	5.78	36.62	47.31	74.00	-26.69	VERTICAL peak
3	4824.000	42.84	34.16	5.85	36.67	46.18	74.00	-27.82	VERTICAL peak
4	6432.732	43.81	33.75	7.09	36.83	47.82	74.00	-26.18	VERTICAL peak
5	7236.000	41.52	35.78	7.54	36.94	47.90	74.00	-26.10	VERTICAL peak
6	9648.000	41.42	38.70	8.12	36.82	51.42	74.00	-22.58	VERTICAL peak



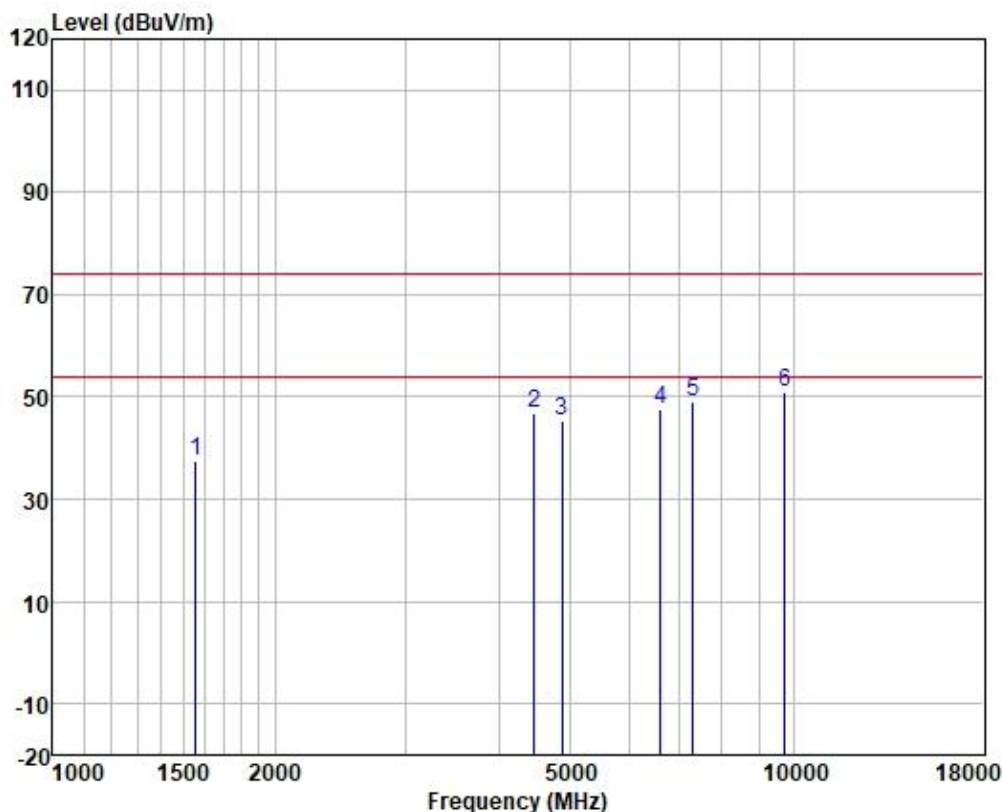
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	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1185.936	54.15	23.07	2.54	37.65	42.11	74.00	-31.89	HORIZONTAL	peak
2	4367.058	44.68	33.51	5.78	36.62	47.35	74.00	-26.65	HORIZONTAL	peak
3	4824.000	42.74	34.16	5.85	36.67	46.08	74.00	-27.92	HORIZONTAL	peak
4	6564.209	43.86	33.99	7.26	36.84	48.27	74.00	-25.73	HORIZONTAL	peak
5	7236.000	41.94	35.78	7.54	36.94	48.32	74.00	-25.68	HORIZONTAL	peak
6	9648.000	41.33	38.70	8.12	36.82	51.33	74.00	-22.67	HORIZONTAL	peak



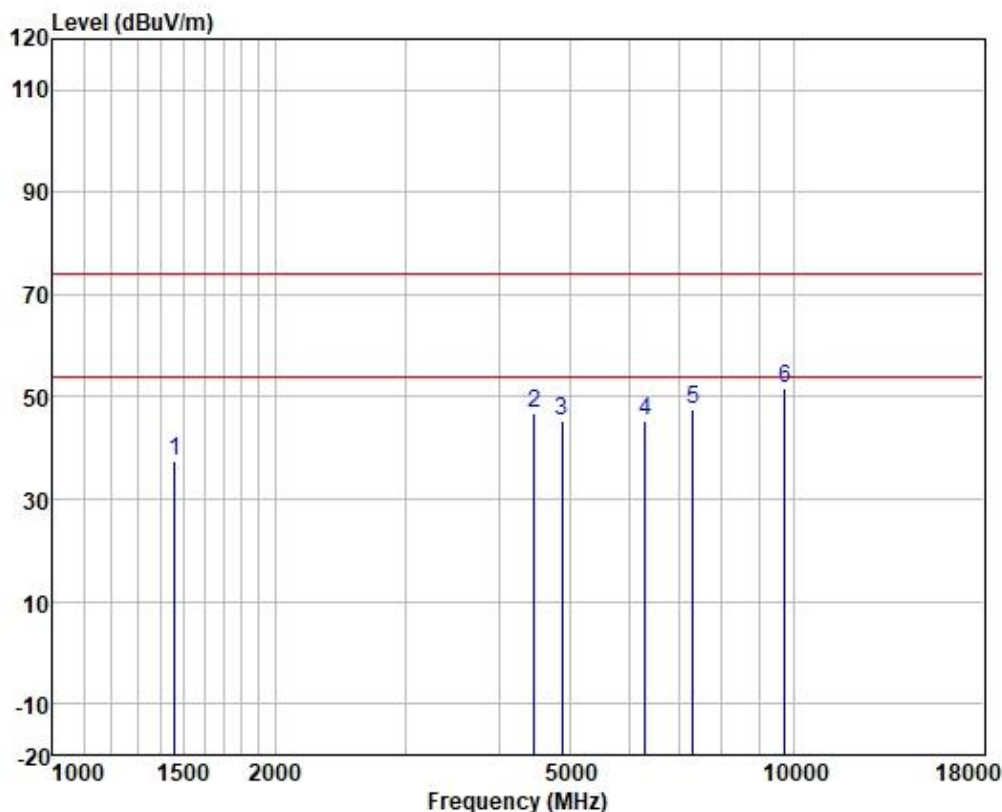
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	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1560.673	47.34	24.57	3.09	37.47	37.53	74.00	-36.47	VERTICAL	peak
2	4469.214	43.71	34.06	5.80	36.63	46.94	74.00	-27.06	VERTICAL	peak
3	4874.000	42.13	34.15	5.85	36.67	45.46	74.00	-28.54	VERTICAL	peak
4	6621.375	43.10	34.12	7.31	36.84	47.69	74.00	-26.31	VERTICAL	peak
5	7311.000	42.33	36.00	7.55	36.95	48.93	74.00	-25.07	VERTICAL	peak
6	9748.000	40.69	38.81	8.17	36.81	50.86	74.00	-23.14	VERTICAL	peak



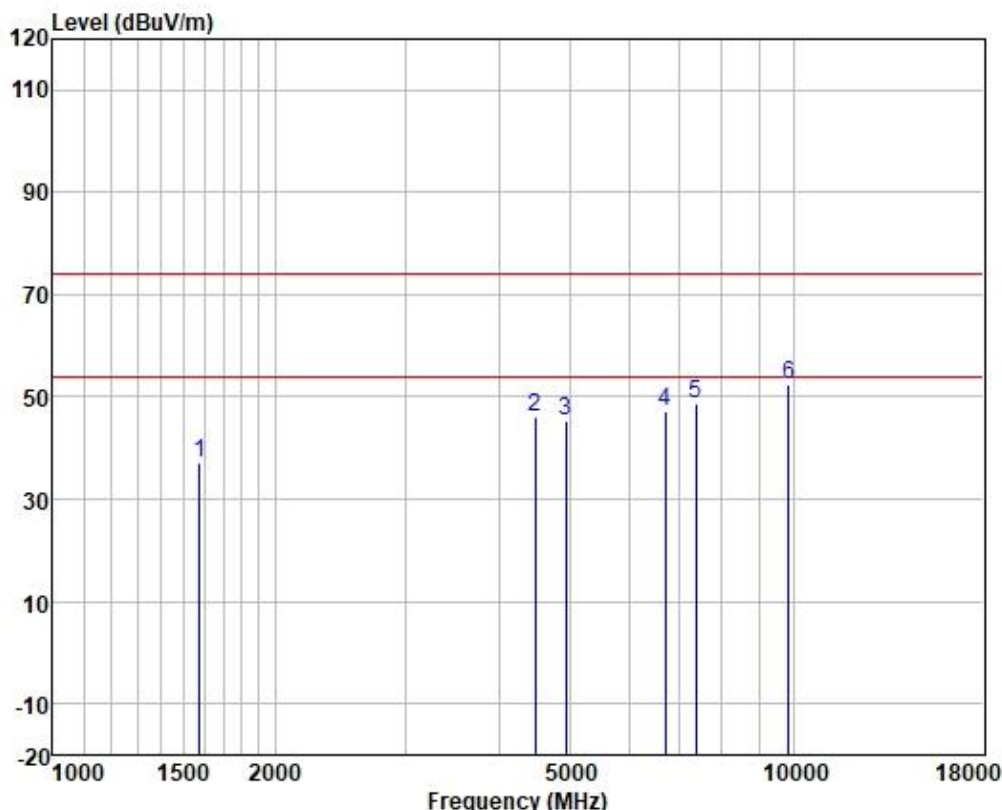
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	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1460.295	47.69	24.37	2.98	37.53	37.51	74.00	-36.49	HORIZONTAL	peak
4469.214	43.65	34.06	5.80	36.63	46.88	74.00	-27.12	HORIZONTAL	peak
4874.000	41.84	34.15	5.85	36.67	45.17	74.00	-28.83	HORIZONTAL	peak
6303.890	41.74	33.46	6.96	36.82	45.34	74.00	-28.66	HORIZONTAL	Peak
7311.000	40.86	36.00	7.55	36.95	47.46	74.00	-26.54	HORIZONTAL	peak
9748.000	41.42	38.81	8.17	36.81	51.59	74.00	-22.41	HORIZONTAL	peak



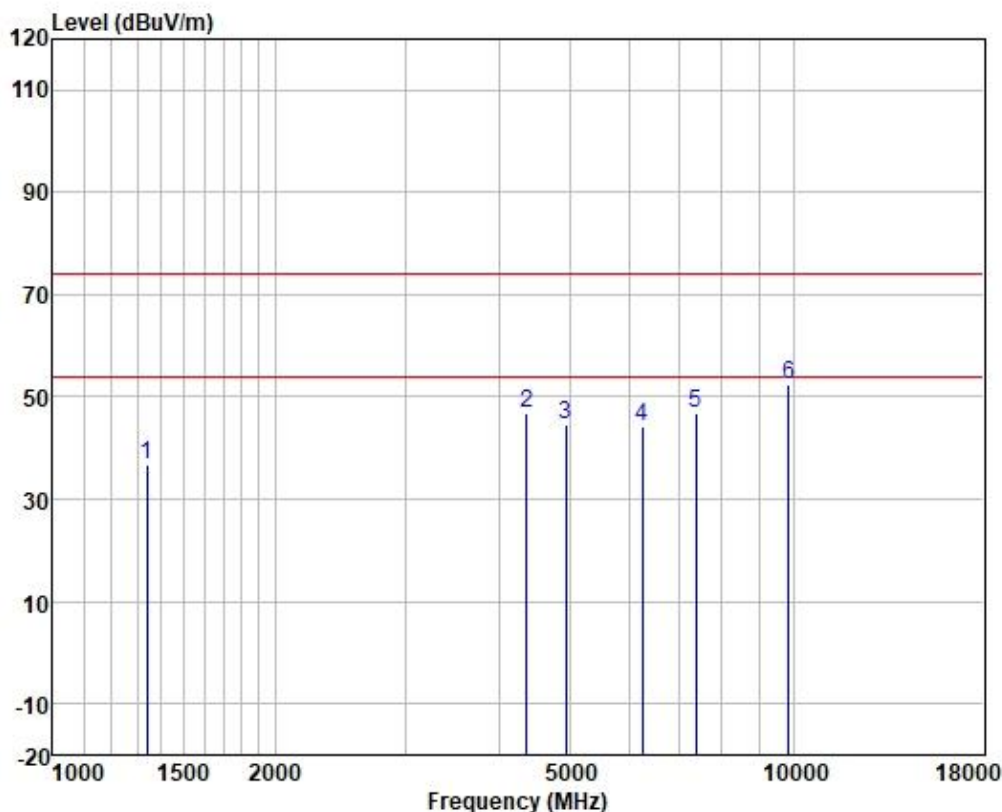
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	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1578.822	46.88	24.62	3.11	37.45	37.16	74.00	-36.84	VERTICAL	peak
2	4482.150	42.80	34.12	5.80	36.63	46.09	74.00	-27.91	VERTICAL	peak
3	4924.000	41.89	34.15	5.86	36.68	45.22	74.00	-28.78	VERTICAL	peak
4	6717.762	42.31	34.42	7.38	36.85	47.26	74.00	-26.74	VERTICAL	Peak
5	7386.000	41.87	36.23	7.57	36.96	48.71	74.00	-25.29	VERTICAL	peak
6	9848.000	42.16	38.88	8.20	36.81	52.43	74.00	-21.57	VERTICAL	peak



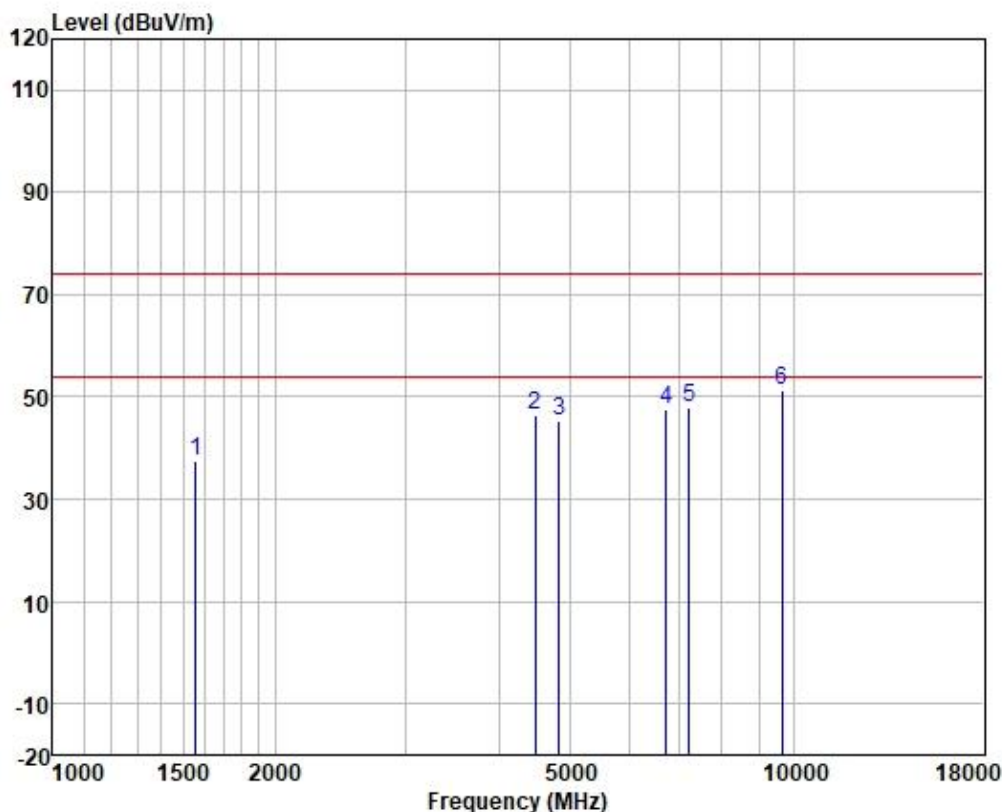
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	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1339.006	47.55	24.11	2.68	37.60	36.74	74.00	-37.26	HORIZONTAL peak
2	4367.058	44.15	33.51	5.78	36.62	46.82	74.00	-27.18	HORIZONTAL peak
3	4924.000	41.34	34.15	5.86	36.68	44.67	74.00	-29.33	HORIZONTAL peak
4	6249.464	40.88	33.28	6.92	36.81	44.27	74.00	-29.73	HORIZONTAL Peak
5	7386.000	39.99	36.23	7.57	36.96	46.83	74.00	-27.17	HORIZONTAL peak
6	9848.000	42.29	38.88	8.20	36.81	52.56	74.00	-21.44	HORIZONTAL peak



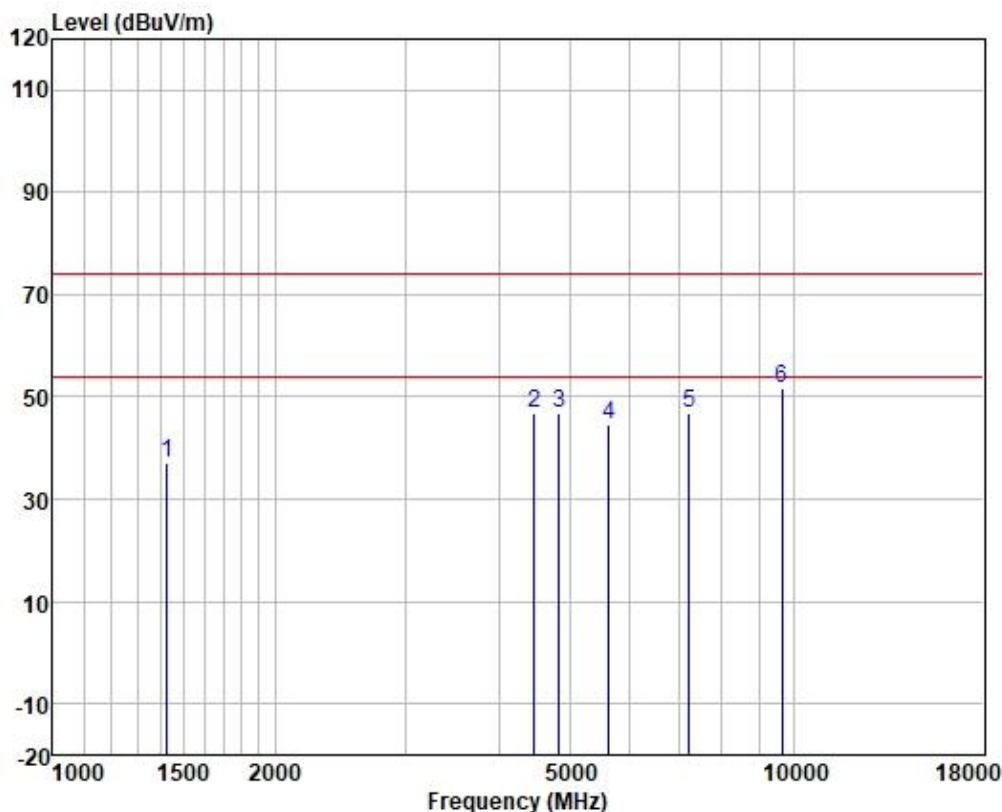
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	MHz	Level	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1560.673	47.30	24.57	3.09	37.47	37.49	74.00	-36.51	VERTICAL peak
2	4482.150	43.24	34.12	5.80	36.63	46.53	74.00	-27.47	VERTICAL peak
3	4824.000	42.05	34.16	5.85	36.67	45.39	74.00	-28.61	VERTICAL peak
4	6737.207	42.69	34.49	7.39	36.85	47.72	74.00	-26.28	VERTICAL peak
5	7236.000	41.39	35.78	7.54	36.94	47.77	74.00	-26.23	VERTICAL peak
6	9648.000	41.26	38.70	8.12	36.82	51.26	74.00	-22.74	VERTICAL peak



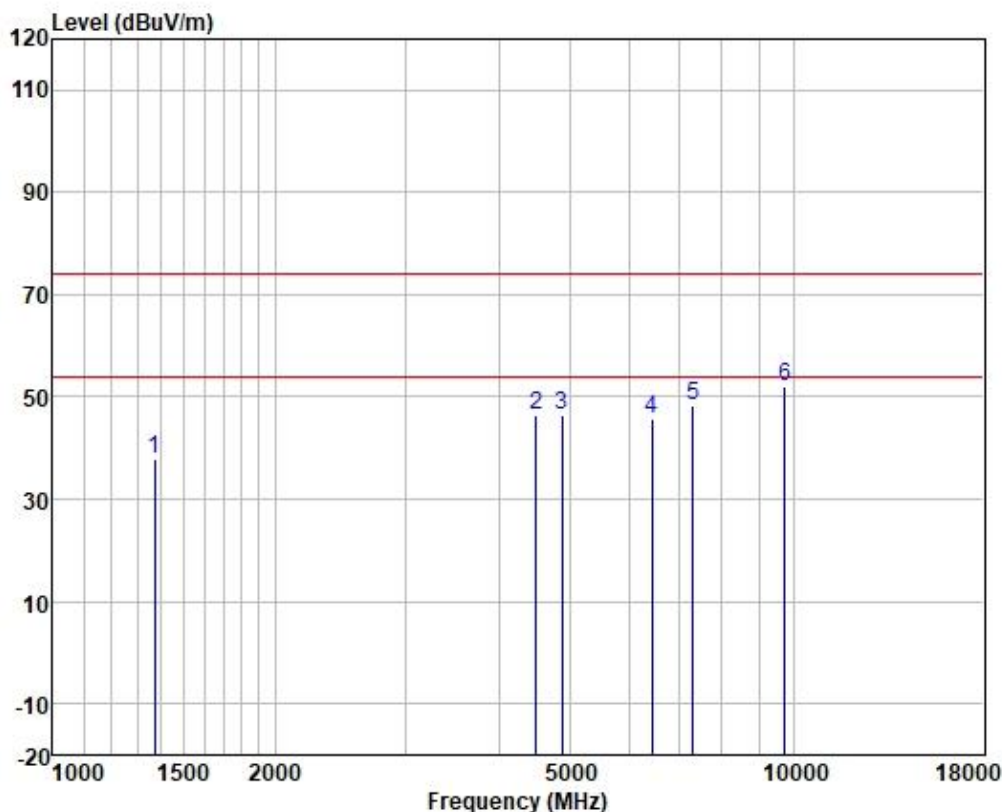
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	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1426.916	47.59	24.31	2.90	37.55	37.25	74.00	-36.75	HORIZONTAL peak
2	4469.214	43.71	34.06	5.80	36.63	46.94	74.00	-27.06	HORIZONTAL peak
3	4824.000	43.54	34.16	5.85	36.67	46.88	74.00	-27.12	HORIZONTAL peak
4	5631.875	42.30	32.63	6.54	36.78	44.69	74.00	-29.31	HORIZONTAL Peak
5	7236.000	40.49	35.78	7.54	36.94	46.87	74.00	-27.13	HORIZONTAL peak
6	9648.000	41.82	38.70	8.12	36.82	51.82	74.00	-22.18	HORIZONTAL peak



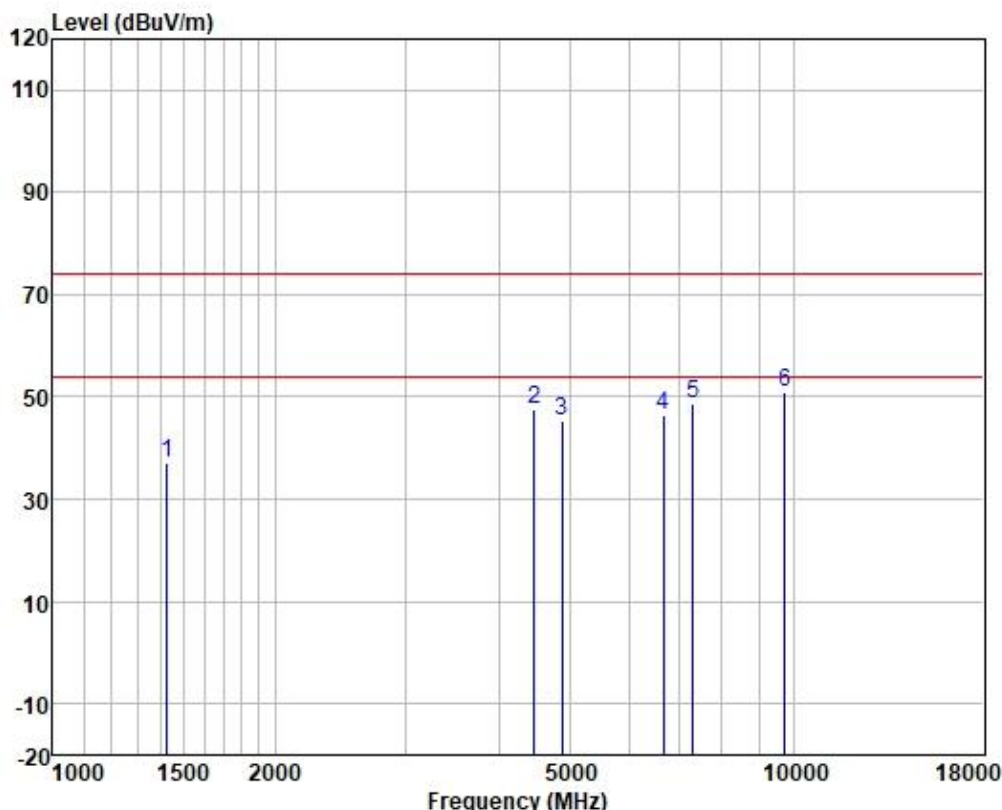
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	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1374.295	48.63	24.20	2.74	37.57	38.00	74.00	-36.00	VERTICAL peak
2	4495.125	43.13	34.17	5.81	36.63	46.48	74.00	-27.52	VERTICAL peak
3	4874.000	43.03	34.15	5.85	36.67	46.36	74.00	-27.64	VERTICAL peak
4	6451.353	41.46	33.78	7.12	36.83	45.53	74.00	-28.47	VERTICAL Peak
5	7311.000	41.82	36.00	7.55	36.95	48.42	74.00	-25.58	VERTICAL peak
6	9748.000	41.73	38.81	8.17	36.81	51.90	74.00	-22.10	VERTICAL peak



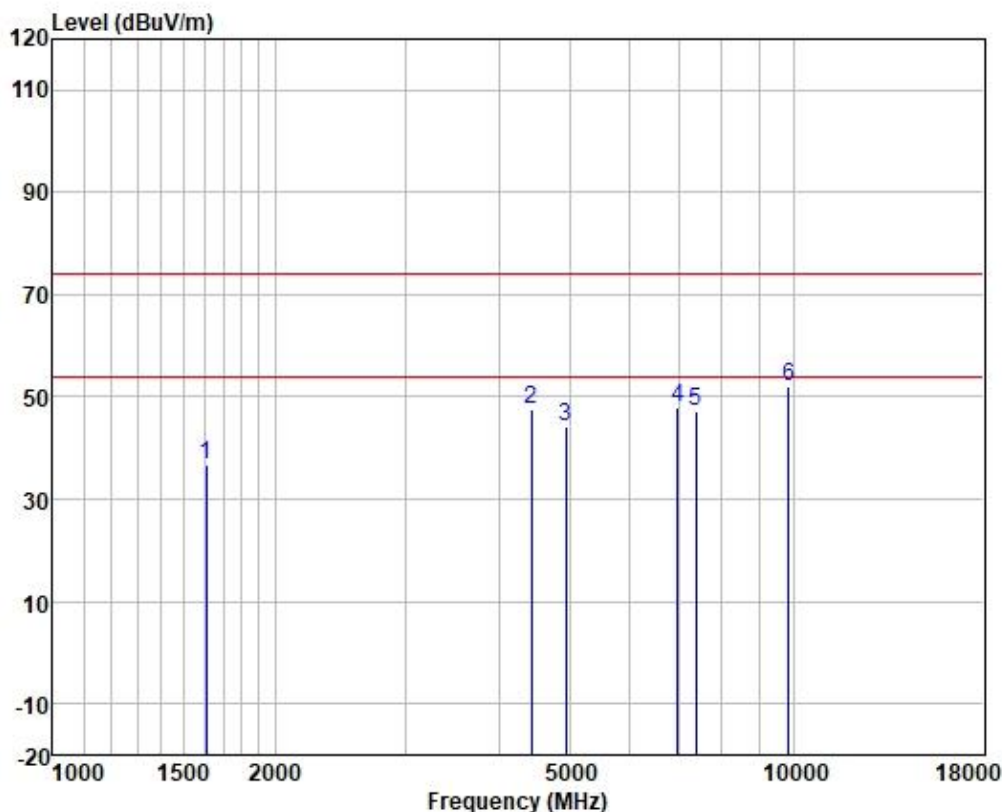
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	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1426.916	47.48	24.31	2.90	37.55	37.14	74.00	-36.86	HORIZONTAL	peak
2	4469.214	44.45	34.06	5.80	36.63	47.68	74.00	-26.32	HORIZONTAL	peak
3	4874.000	42.16	34.15	5.85	36.67	45.49	74.00	-28.51	HORIZONTAL	peak
4	6679.040	41.62	34.28	7.35	36.85	46.40	74.00	-27.60	HORIZONTAL	Peak
5	7311.000	42.02	36.00	7.55	36.95	48.62	74.00	-25.38	HORIZONTAL	peak
6	9748.000	40.81	38.81	8.17	36.81	50.98	74.00	-23.02	HORIZONTAL	peak



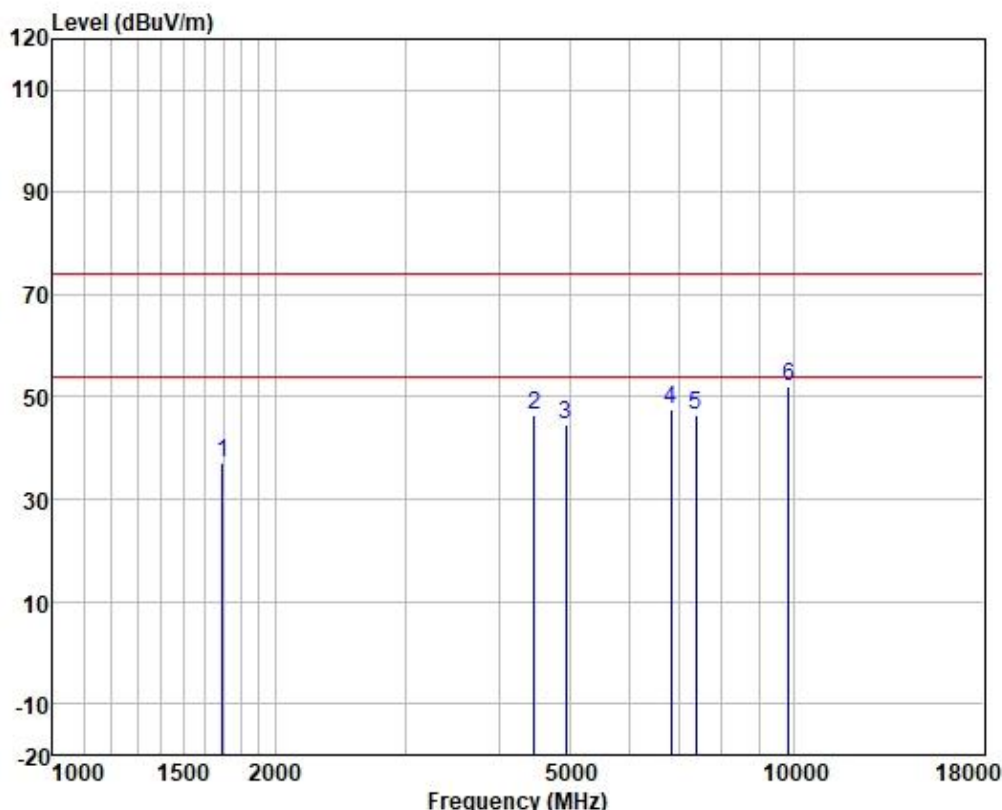
Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1611.091	46.37	24.72	3.13	37.44	36.78	74.00	-37.22	VERTICAL	peak
2	4430.628	44.54	33.87	5.79	36.63	47.57	74.00	-26.43	VERTICAL	peak
3	4924.000	40.88	34.15	5.86	36.68	44.21	74.00	-29.79	VERTICAL	peak
4	6974.982	42.30	35.08	7.50	36.89	47.99	74.00	-26.01	VERTICAL	peak
5	7386.000	40.24	36.23	7.57	36.96	47.08	74.00	-26.92	VERTICAL	peak
6	9848.000	41.61	38.88	8.20	36.81	51.88	74.00	-22.12	VERTICAL	peak



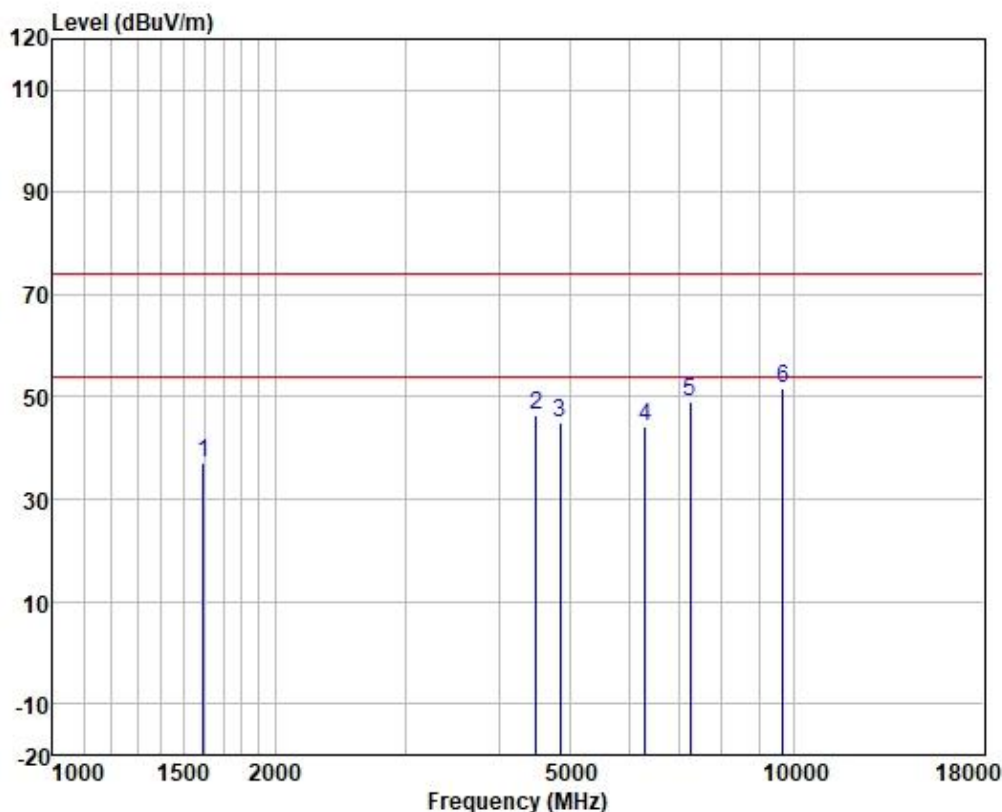
Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	46.37	25.12	3.18	37.40	37.27	74.00	-36.73	HORIZONTAL	peak
2	4469.214	43.21	34.06	5.80	36.63	46.44	74.00	-27.56	HORIZONTAL	peak
3	4924.000	41.33	34.15	5.86	36.68	44.66	74.00	-29.34	HORIZONTAL	peak
4	6835.278	42.09	34.79	7.44	36.87	47.45	74.00	-26.55	HORIZONTAL	peak
5	7386.000	39.54	36.23	7.57	36.96	46.38	74.00	-27.62	HORIZONTAL	peak
6	9848.000	41.84	38.88	8.20	36.81	52.11	74.00	-21.89	HORIZONTAL	peak



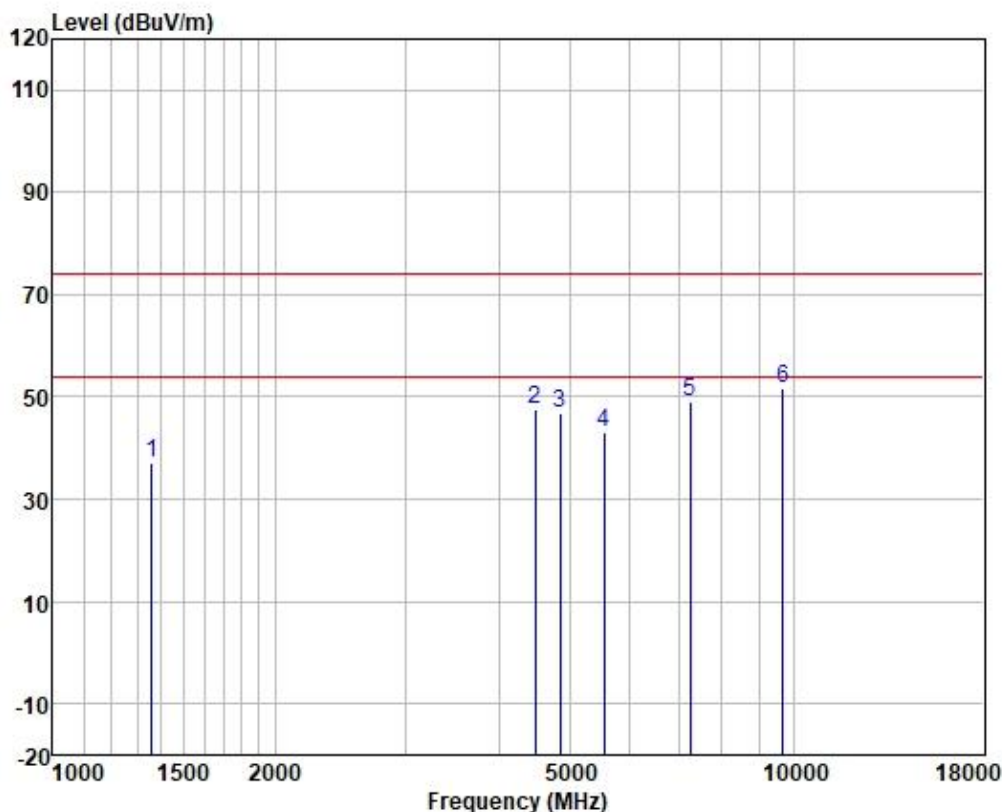
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1597.181	46.89	24.68	3.12	37.45	37.24	74.00	-36.76	VERTICAL	peak
2	4495.125	43.15	34.17	5.81	36.63	46.50	74.00	-27.50	VERTICAL	peak
3	4844.000	41.73	34.15	5.85	36.67	45.06	74.00	-28.94	VERTICAL	peak
4	6303.890	40.51	33.46	6.96	36.82	44.11	74.00	-29.89	VERTICAL	Peak
5	7266.000	42.79	35.86	7.54	36.94	49.25	74.00	-24.75	VERTICAL	peak
6	9688.000	41.76	38.75	8.14	36.82	51.83	74.00	-22.17	VERTICAL	peak



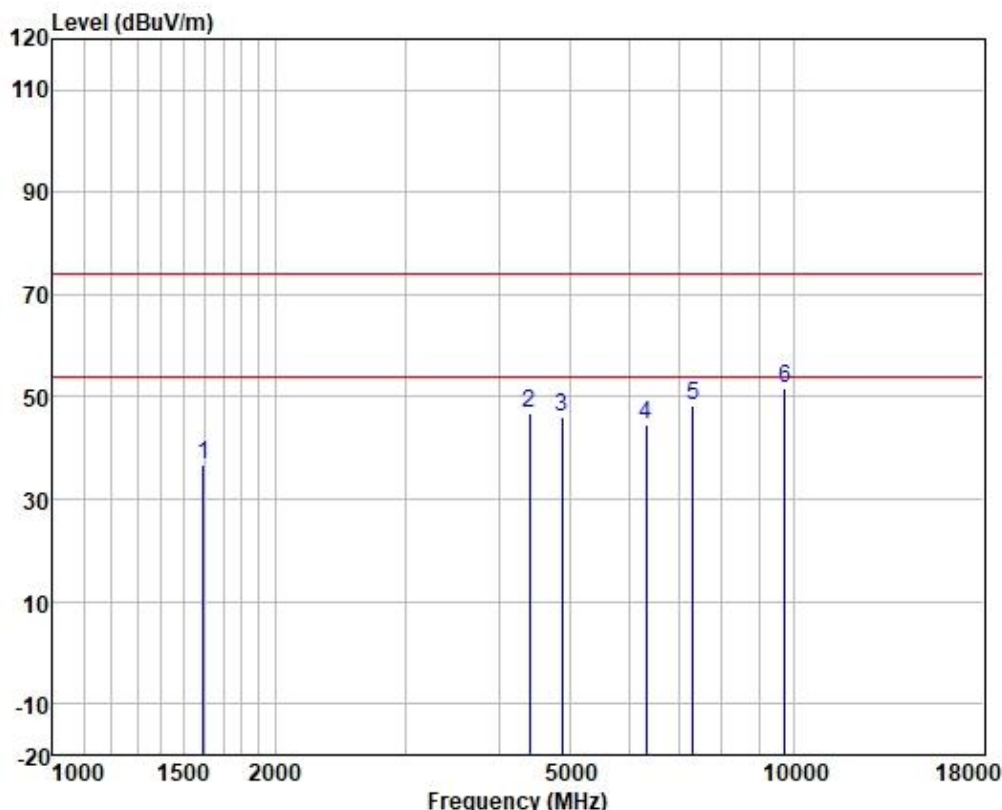
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1358.498	47.76	24.16	2.71	37.59	37.04	74.00	-36.96	HORIZONTAL peak
2	4482.150	44.16	34.12	5.80	36.63	47.45	74.00	-26.55	HORIZONTAL peak
3	4844.000	43.35	34.15	5.85	36.67	46.68	74.00	-27.32	HORIZONTAL peak
4	5551.069	40.95	32.62	6.45	36.77	43.25	74.00	-30.75	HORIZONTAL Peak
5	7266.000	42.46	35.86	7.54	36.94	48.92	74.00	-25.08	HORIZONTAL peak
6	9688.000	41.59	38.75	8.14	36.82	51.66	74.00	-22.34	HORIZONTAL peak



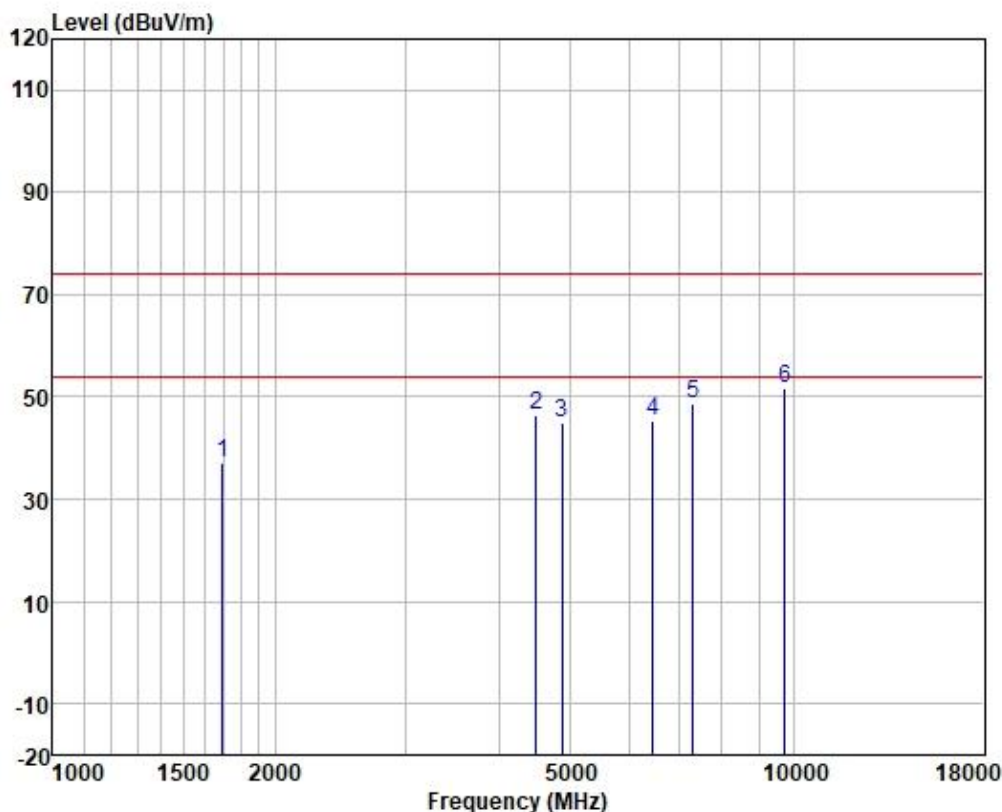
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1597.181	46.23	24.68	3.12	37.45	36.58	74.00	-37.42	VERTICAL	peak
2	4405.090	43.78	33.74	5.78	36.62	46.68	74.00	-27.32	VERTICAL	peak
3	4874.000	42.75	34.15	5.85	36.67	46.08	74.00	-27.92	VERTICAL	peak
4	6322.136	40.81	33.51	6.98	36.82	44.48	74.00	-29.52	VERTICAL	Peak
5	7311.000	41.78	36.00	7.55	36.95	48.38	74.00	-25.62	VERTICAL	peak
6	9748.000	41.41	38.81	8.17	36.81	51.58	74.00	-22.42	VERTICAL	peak



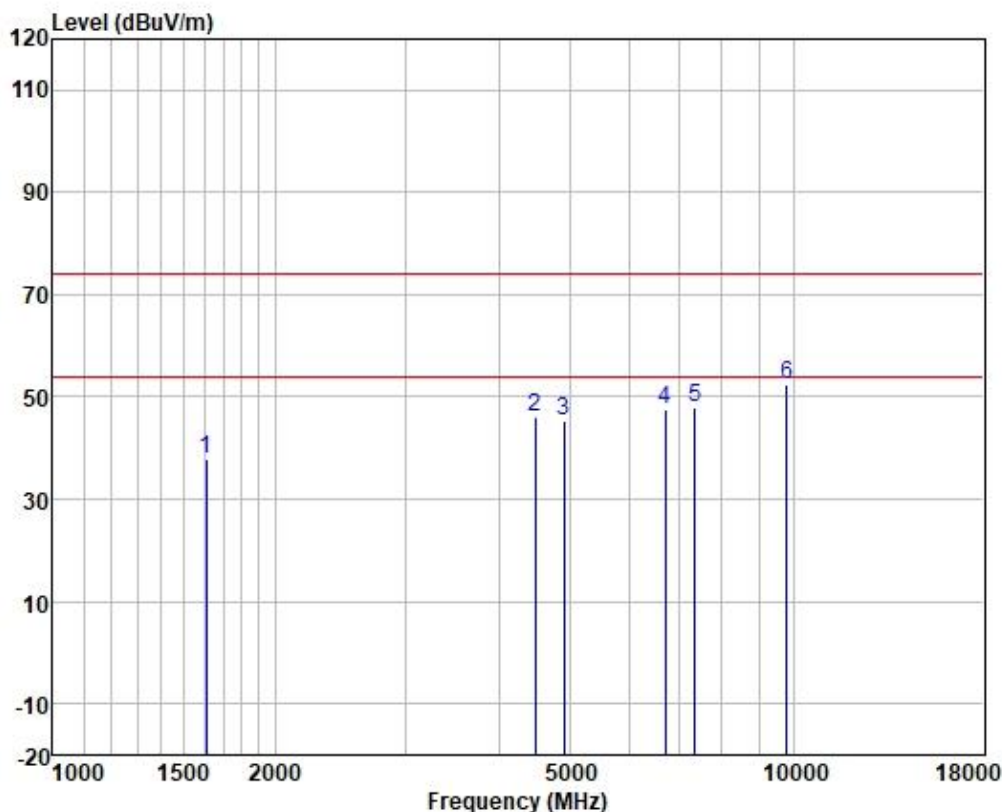
Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1697.129	46.34	25.12	3.18	37.40	37.24	74.00	-36.76	HORIZONTAL	peak
4495.125	43.16	34.17	5.81	36.63	46.51	74.00	-27.49	HORIZONTAL	peak
4874.000	41.71	34.15	5.85	36.67	45.04	74.00	-28.96	HORIZONTAL	peak
6470.026	41.06	33.81	7.15	36.83	45.19	74.00	-28.81	HORIZONTAL	Peak
7311.000	42.05	36.00	7.55	36.95	48.65	74.00	-25.35	HORIZONTAL	peak
9748.000	41.50	38.81	8.17	36.81	51.67	74.00	-22.33	HORIZONTAL	peak



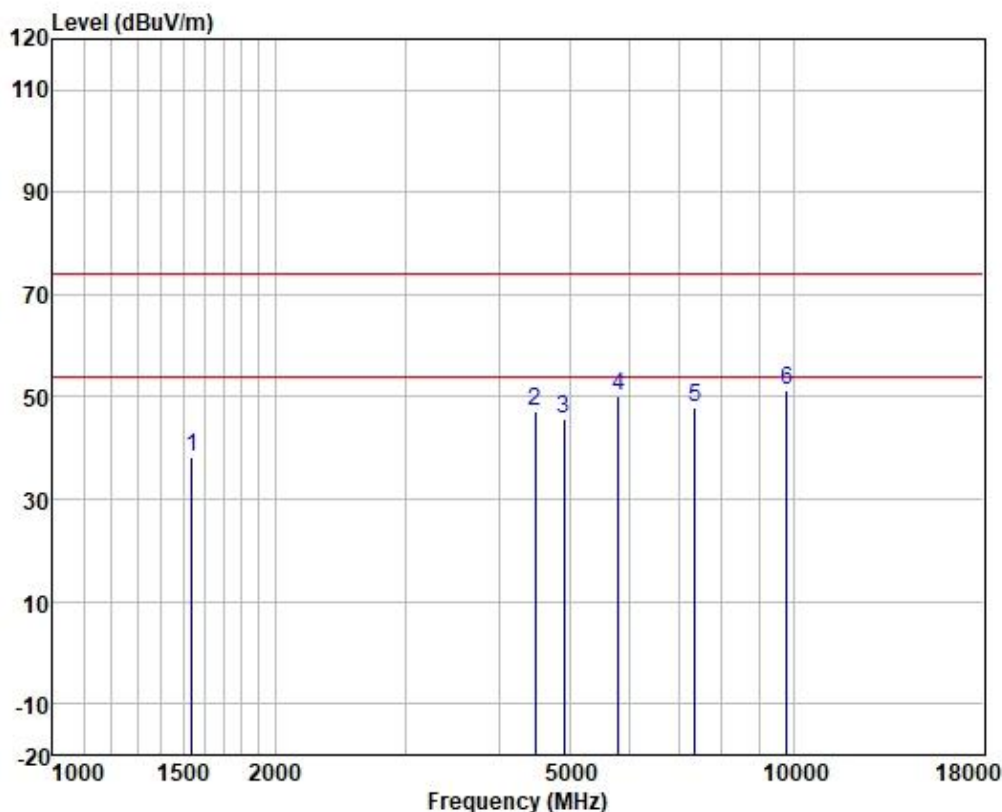
Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1611.091	47.38	24.72	3.13	37.44	37.79	74.00	-36.21	VERTICAL peak
2	4482.150	42.77	34.12	5.80	36.63	46.06	74.00	-27.94	VERTICAL peak
3	4904.000	41.83	34.15	5.85	36.68	45.15	74.00	-28.85	VERTICAL peak
4	6717.762	42.69	34.42	7.38	36.85	47.64	74.00	-26.36	VERTICAL peak
5	7356.000	41.22	36.12	7.56	36.95	47.95	74.00	-26.05	VERTICAL peak
6	9808.000	42.33	38.86	8.19	36.81	52.57	74.00	-21.43	VERTICAL peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1542.733	48.25	24.53	3.08	37.48	38.38	74.00	-35.62	HORIZONTAL	peak
4482.150	43.94	34.12	5.80	36.63	47.23	74.00	-26.77	HORIZONTAL	peak
4904.000	42.33	34.15	5.85	36.68	45.65	74.00	-28.35	HORIZONTAL	peak
5813.812	47.79	32.67	6.68	36.79	50.35	74.00	-23.65	HORIZONTAL	peak
7356.000	41.23	36.12	7.56	36.95	47.96	74.00	-26.04	HORIZONTAL	peak
9808.000	41.06	38.86	8.19	36.81	51.30	74.00	-22.70	HORIZONTAL	peak



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 11.9.2

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

Humidity: 67.4 % RH

Atmospheric Pressure: 1004 mbar

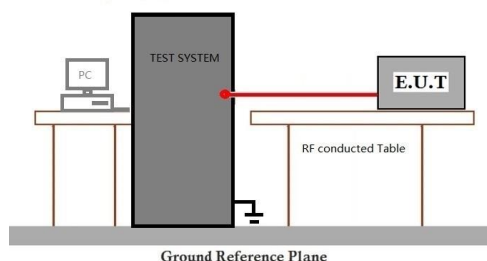
7.5.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

Final test 03

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.

7.5.3 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

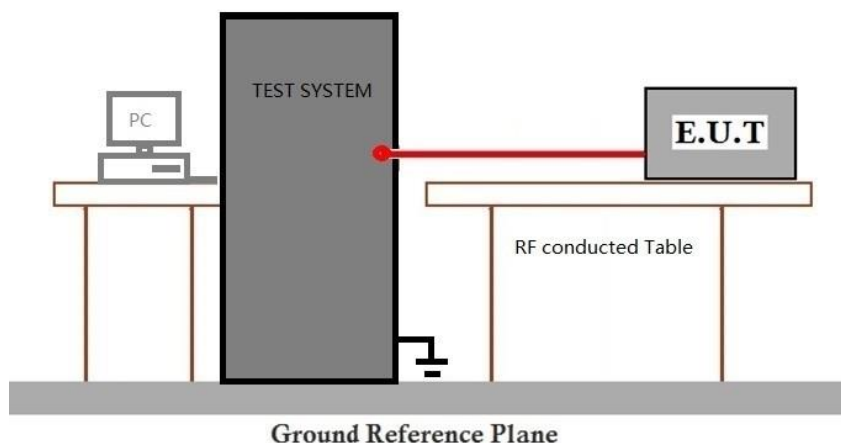
Operating Environment:

Temperature: 21.2 °C Humidity: 67.4 % RH Atmospheric Pressure: 1004 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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:

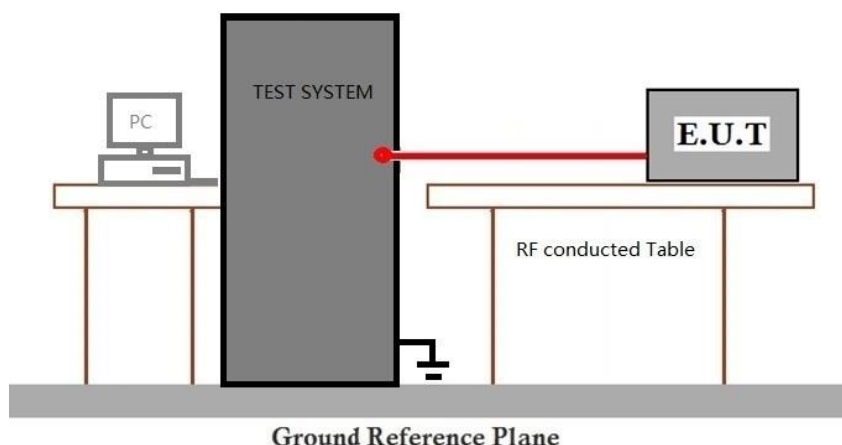
Temperature: 21.2 °C Humidity: 67.4 % RH Atmospheric Pressure: 1004 mbar

7.7.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	

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.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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: 21.2 °C

Humidity: 67.4 % RH

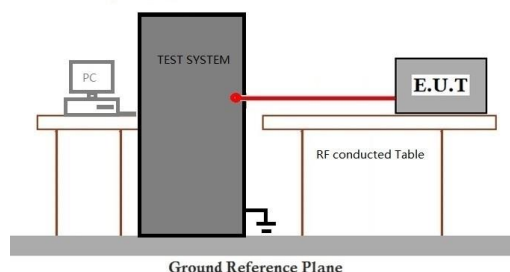
Atmospheric Pressure: 1004 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Final test	03	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

Please Refer to Appendix for Details



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: 21.2 °C

Humidity: 67.4 % RH

Atmospheric Pressure: 1004 mbar

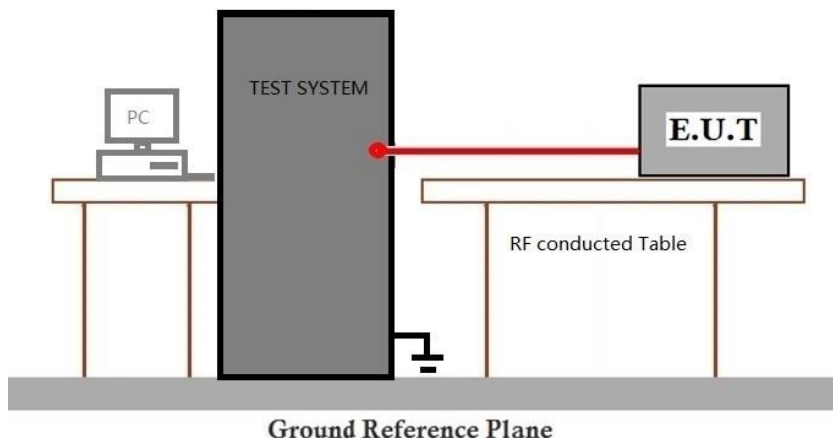
7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Final test	03	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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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix – Test Setup Photos for GZCR240600074905



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2406000749HS



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10 Appendix

1. Duty Cycle

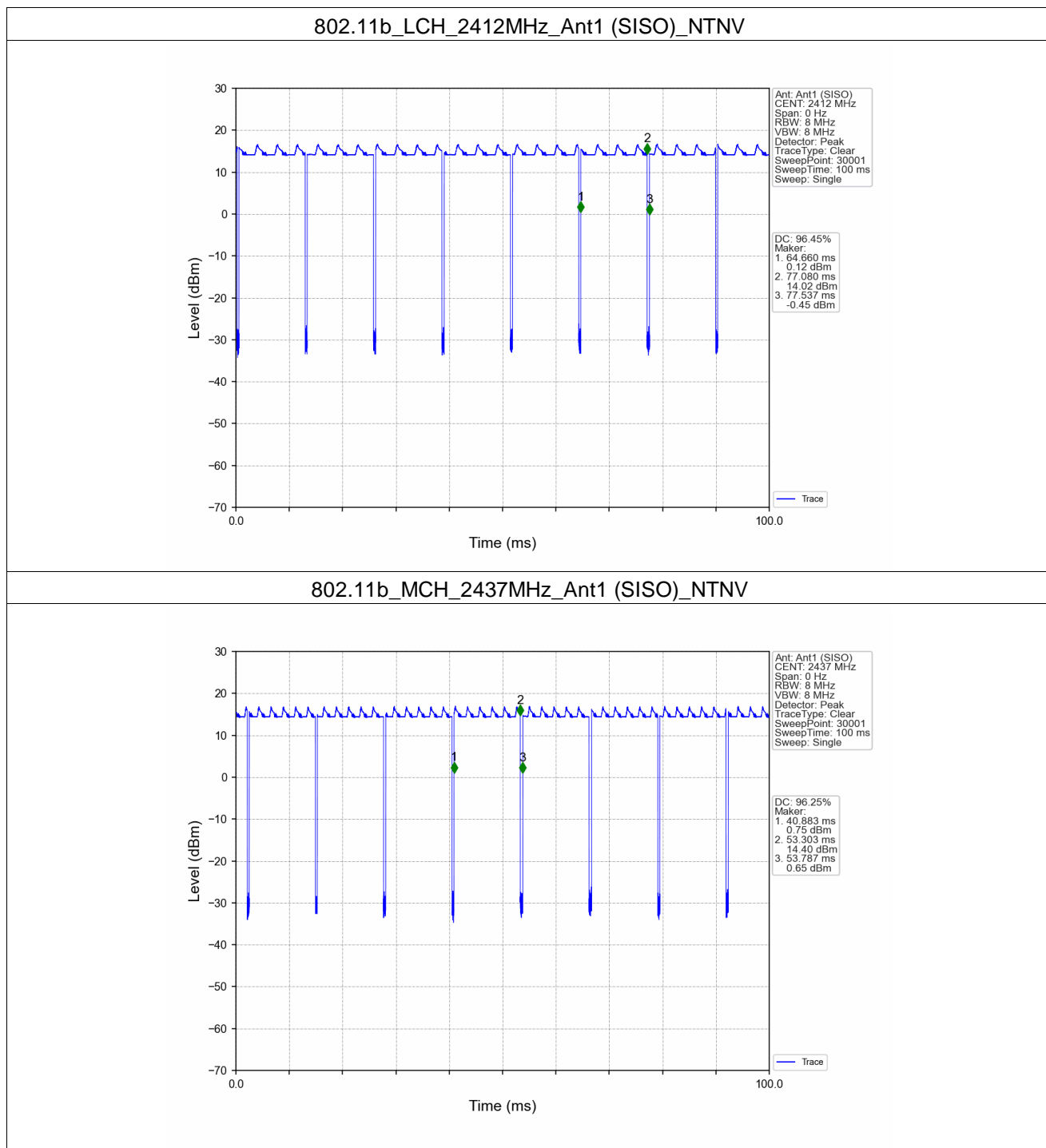
1.1 Test Result

1.1.1 Ant1

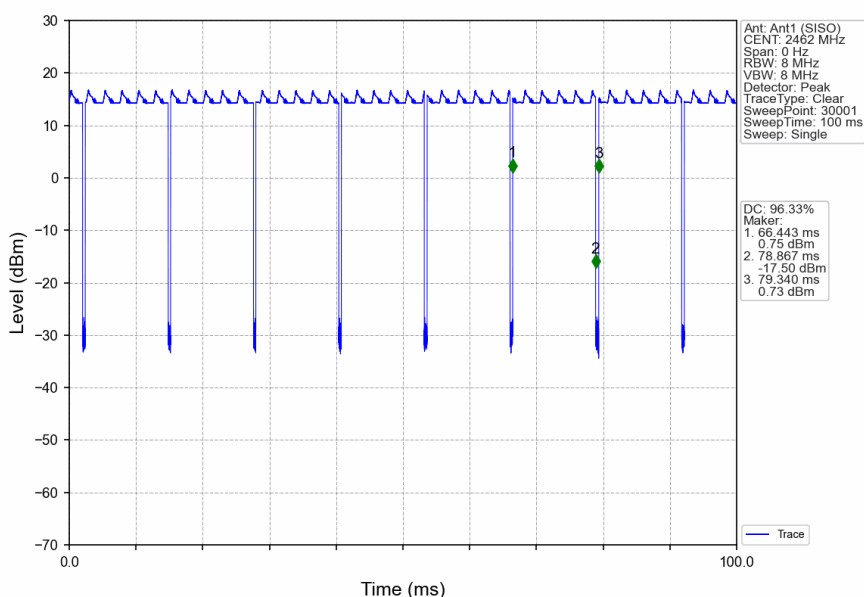
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.420	12.877	96.45	0.16	0.68
		2437	12.420	12.904	96.25	0.17	1.01
		2462	12.424	12.897	96.33	0.16	0.93
802.11g	SISO	2412	2.065	2.295	89.98	0.46	5.64
		2437	2.065	2.295	89.98	0.46	5.63
		2462	2.065	2.295	89.98	0.46	5.25
802.11n (HT40)	SISO	2422	0.947	1.130	83.81	0.77	7.27
		2437	0.945	1.175	80.43	0.95	9.62
		2452	0.944	1.175	80.34	0.95	10.50

1.2 Test Graph

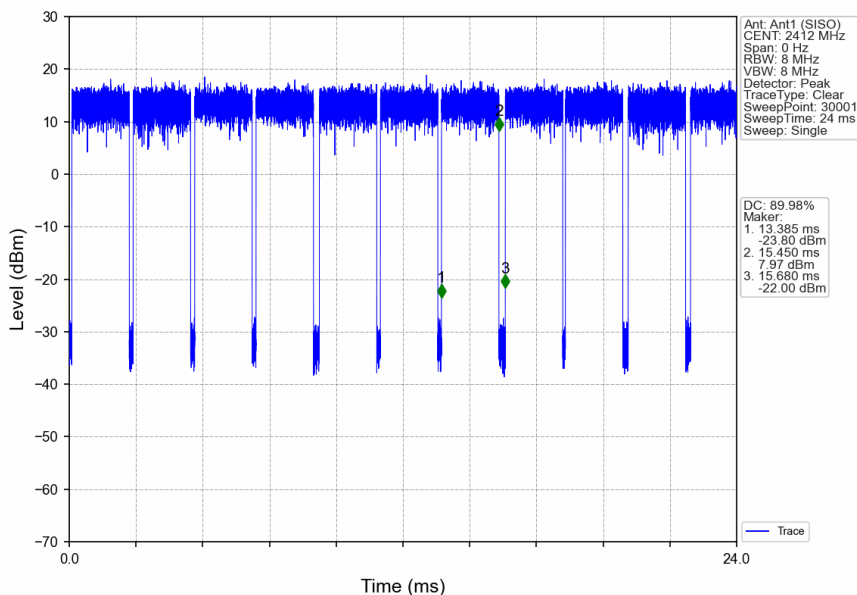
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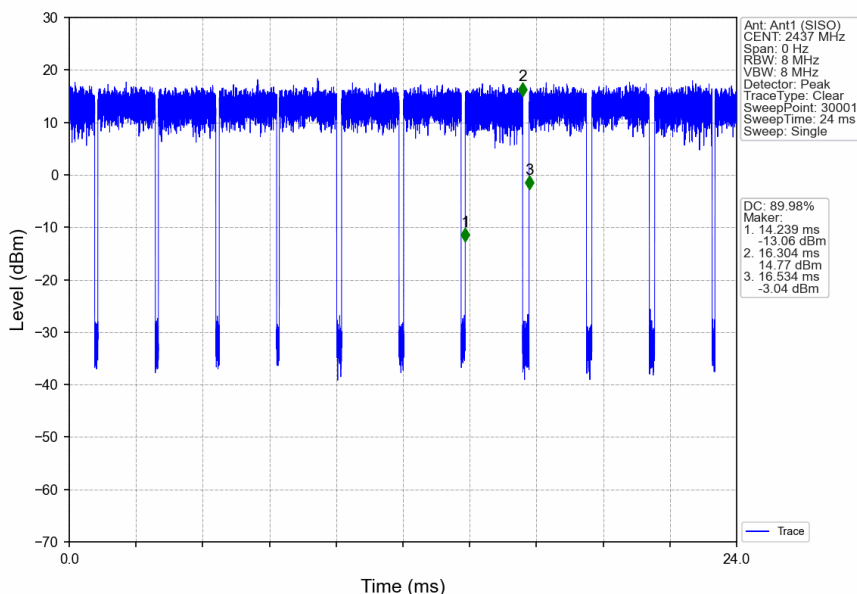
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



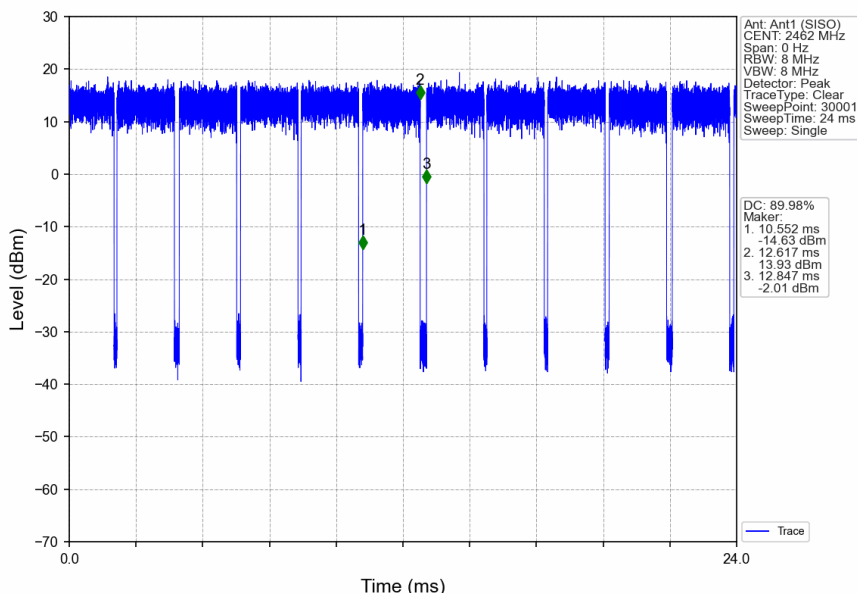
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



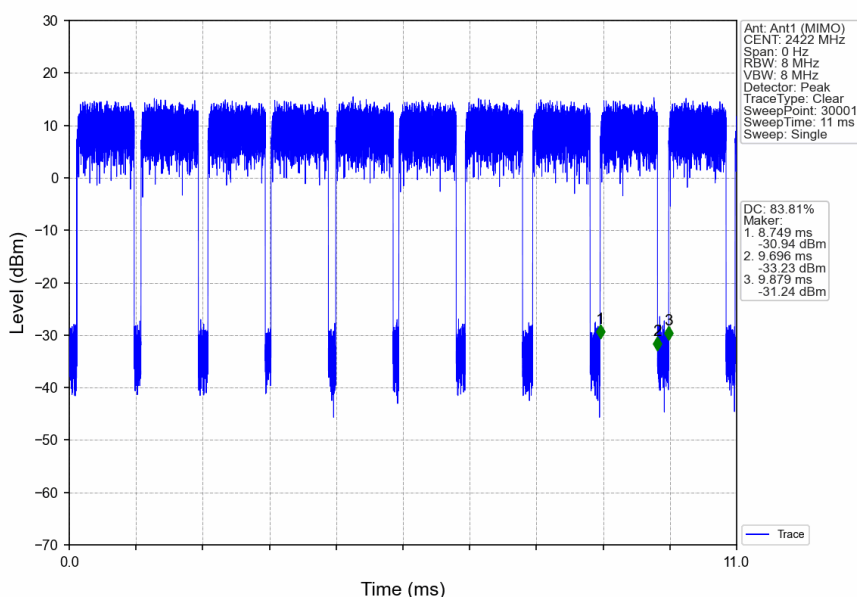
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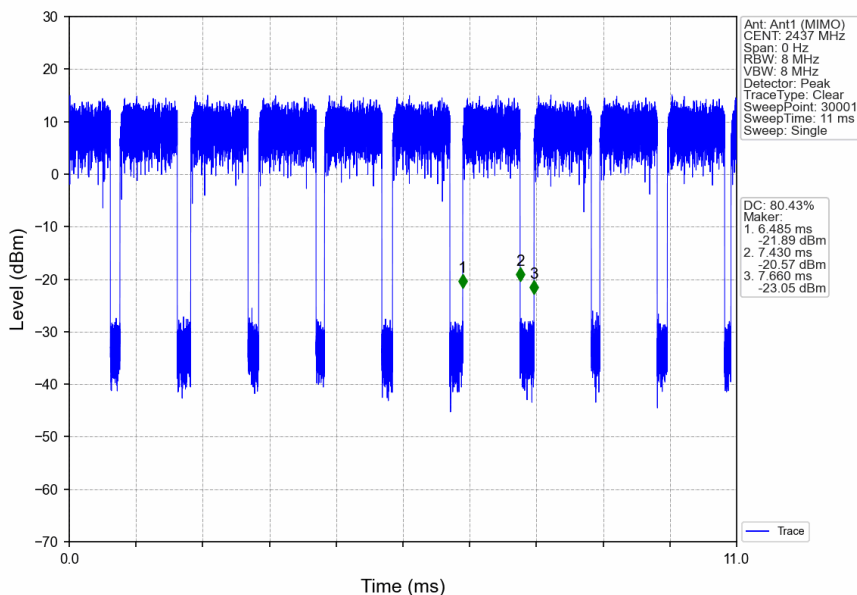
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



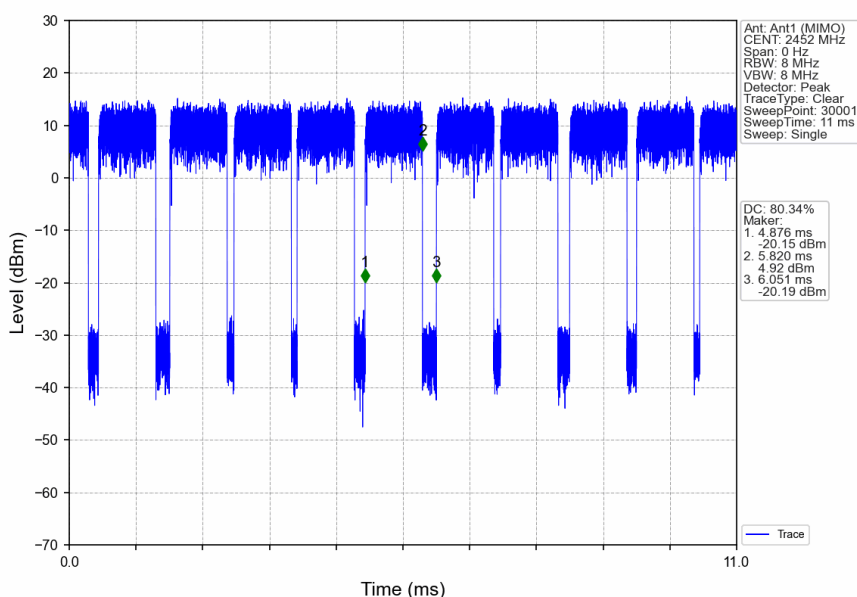
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

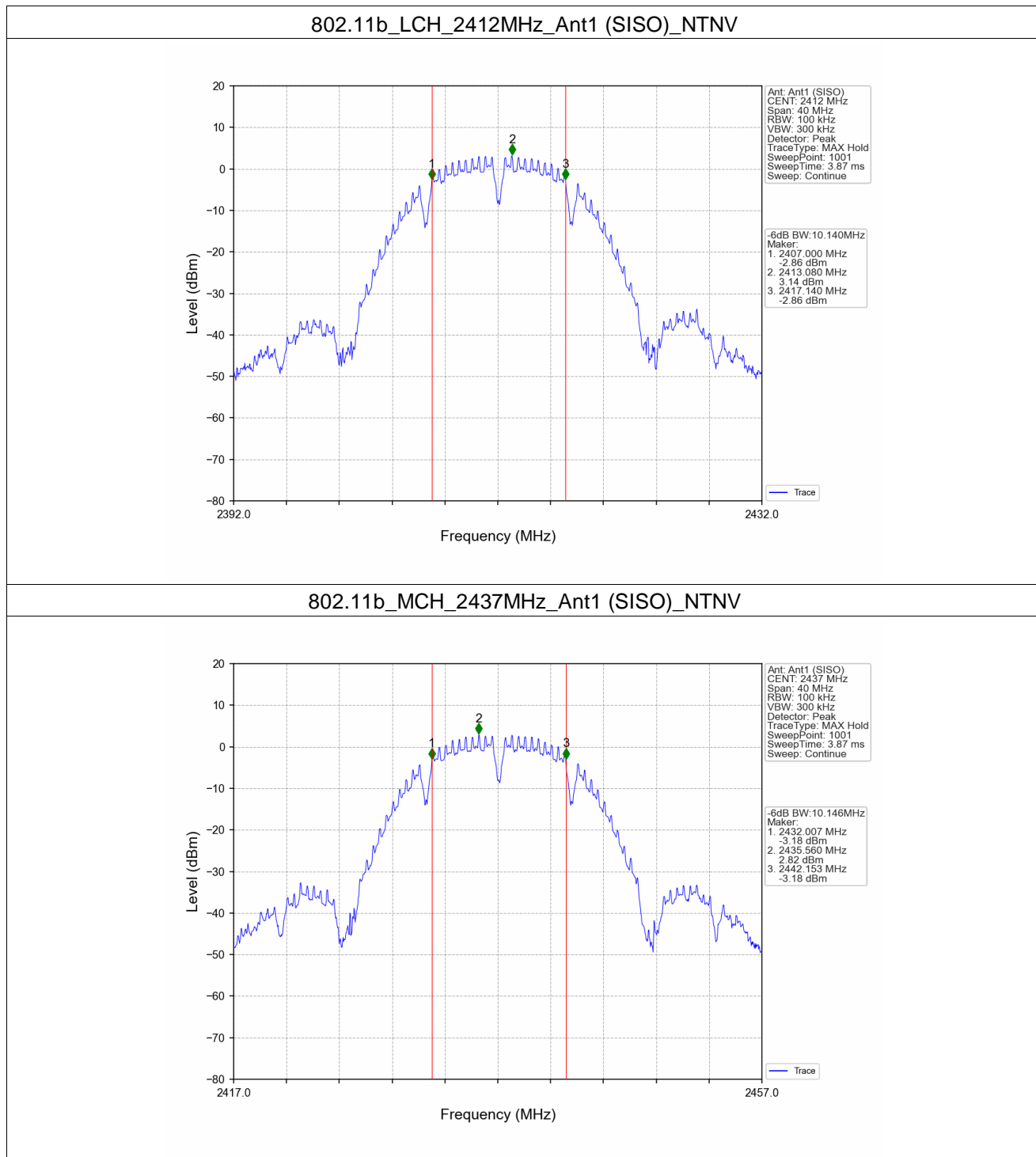
2.1.1 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.140	≥ 0.5	Pass
		2437	1	10.146	≥ 0.5	Pass
		2462	1	10.140	≥ 0.5	Pass
802.11g	SISO	2412	1	15.331	≥ 0.5	Pass
		2437	1	15.380	≥ 0.5	Pass
		2462	1	15.184	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.156	≥ 0.5	Pass
		2437	1	35.171	≥ 0.5	Pass
		2452	1	35.174	≥ 0.5	Pass



2.2 Test Graph

2.2.1 6dB BW



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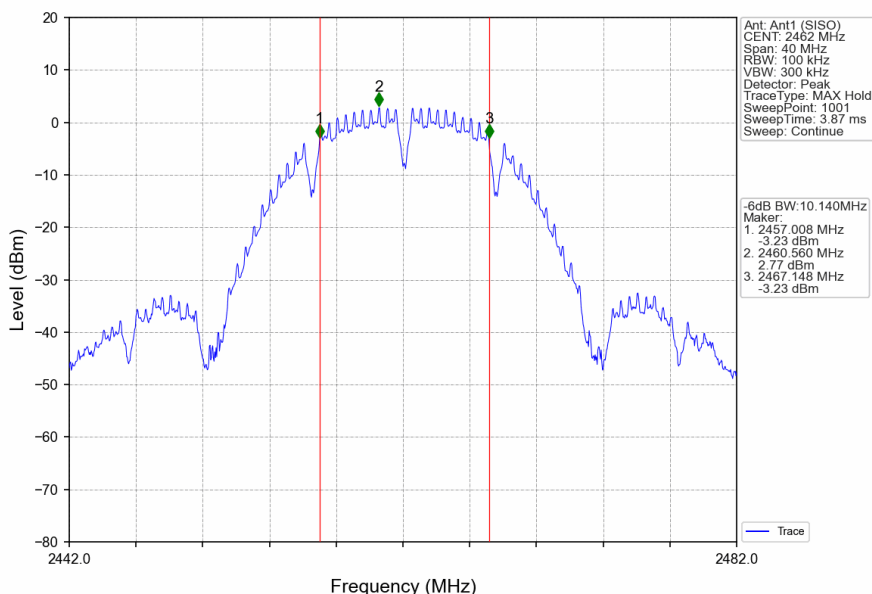
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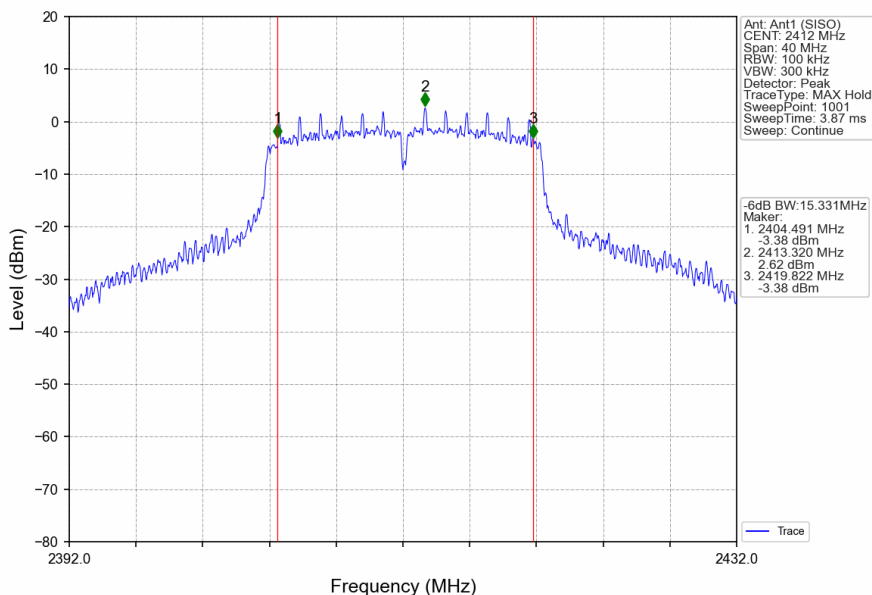
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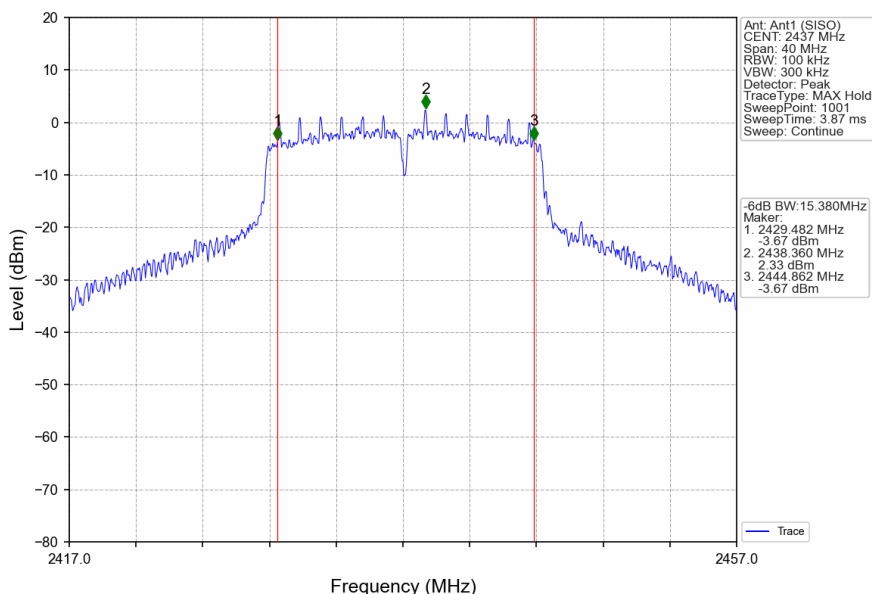
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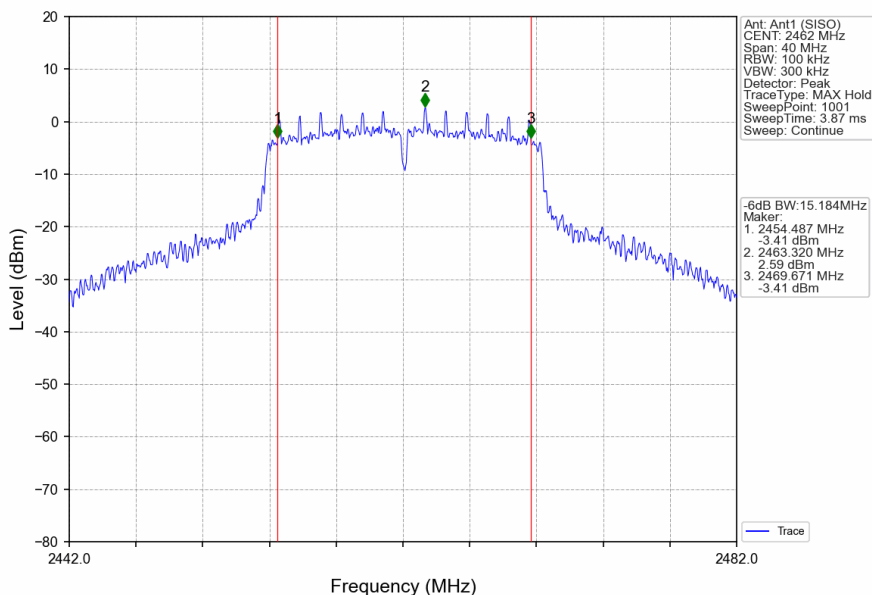
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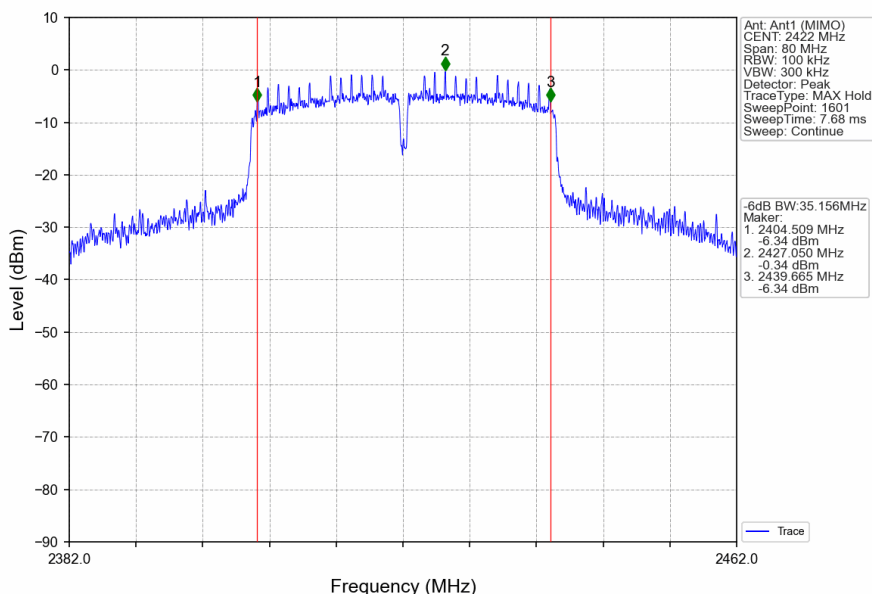
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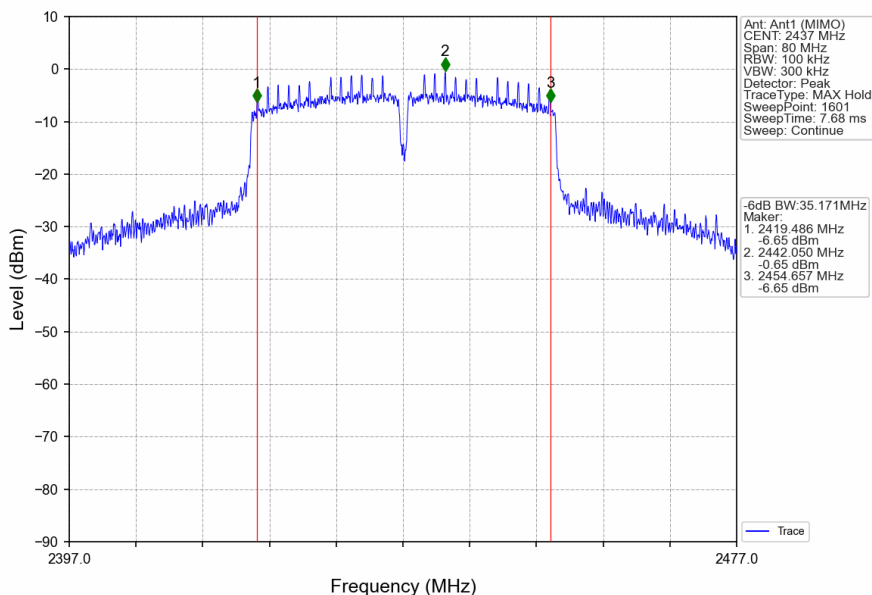
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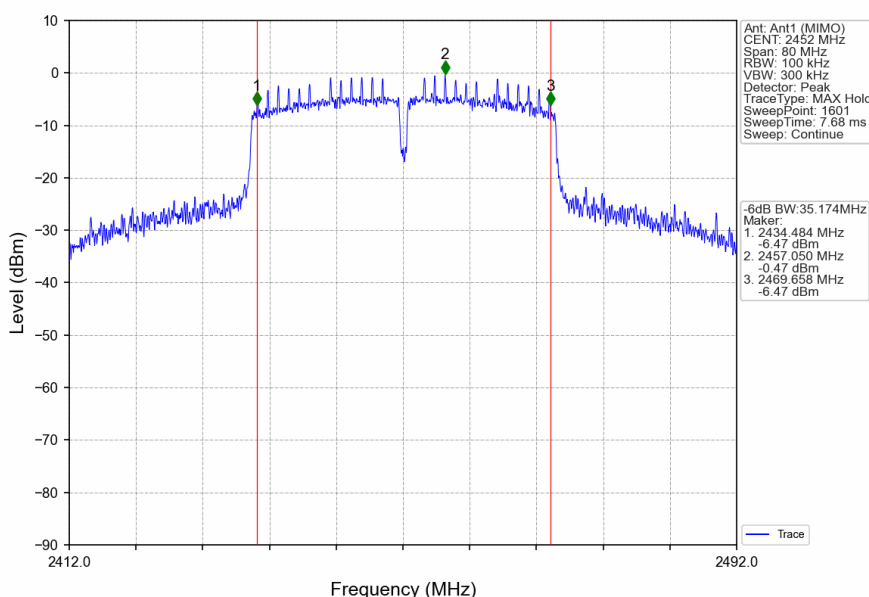
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	14.92	/	/	<=30	Pass
		2437	14.72	/	/	<=30	Pass
		2462	14.66	/	/	<=30	Pass
802.11g	SISO	2412	20.04	/	/	<=30	Pass
		2437	19.89	/	/	<=30	Pass
		2462	20.03	/	/	<=30	Pass
802.11n (HT40)	SISO	2422	20.55	/	/	<=30	Pass
		2437	20.28	/	/	<=30	Pass
		2452	20.44	/	/	<=30	Pass

Note1: Antenna Gain: 2.68dBi



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-11.25	/	/	<=8	Pass
		2437	-11.13	/	/	<=8	Pass
		2462	-11.71	/	/	<=8	Pass
802.11g	SISO	2412	-12.46	/	/	<=8	Pass
		2437	-12.31	/	/	<=8	Pass
		2462	-13.34	/	/	<=8	Pass
802.11n (HT40)	SISO	2422	-14.99	/	/	<=8	Pass
		2437	-15.70	/	/	<=8	Pass
		2452	-15.85	/	/	<=8	Pass

Note1: Antenna Gain: 2.68dBi;



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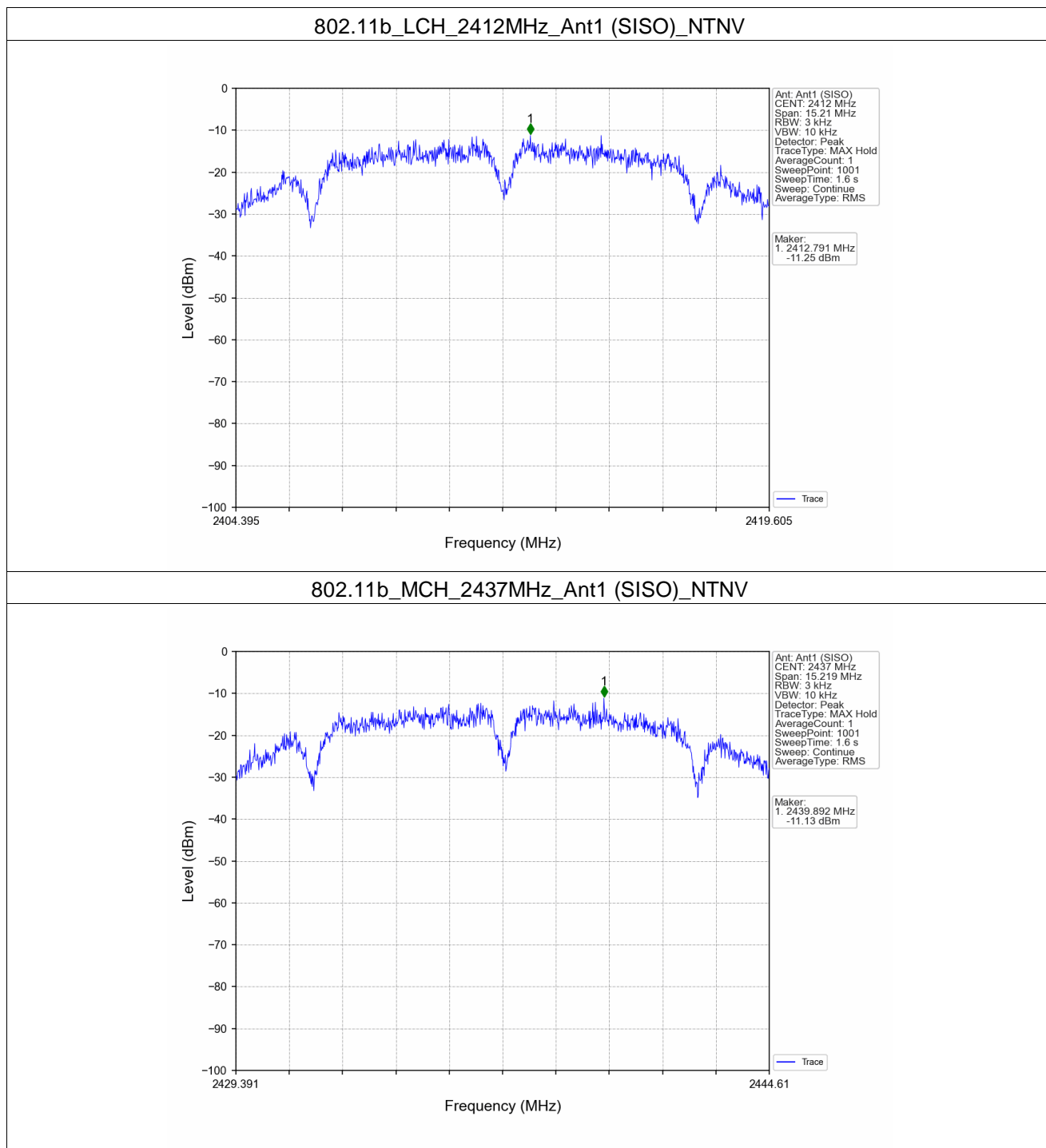
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4.2 Test Graph

4.2.1 PSD



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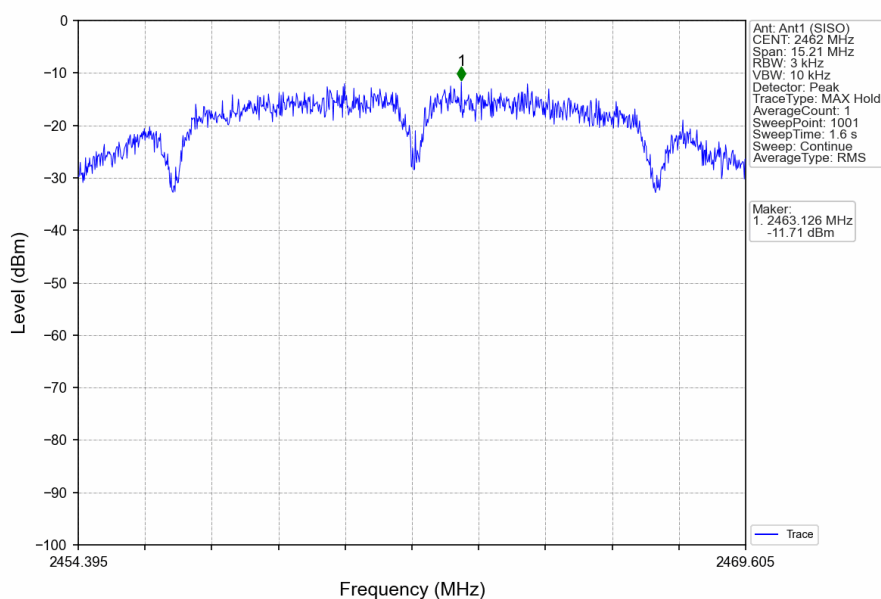
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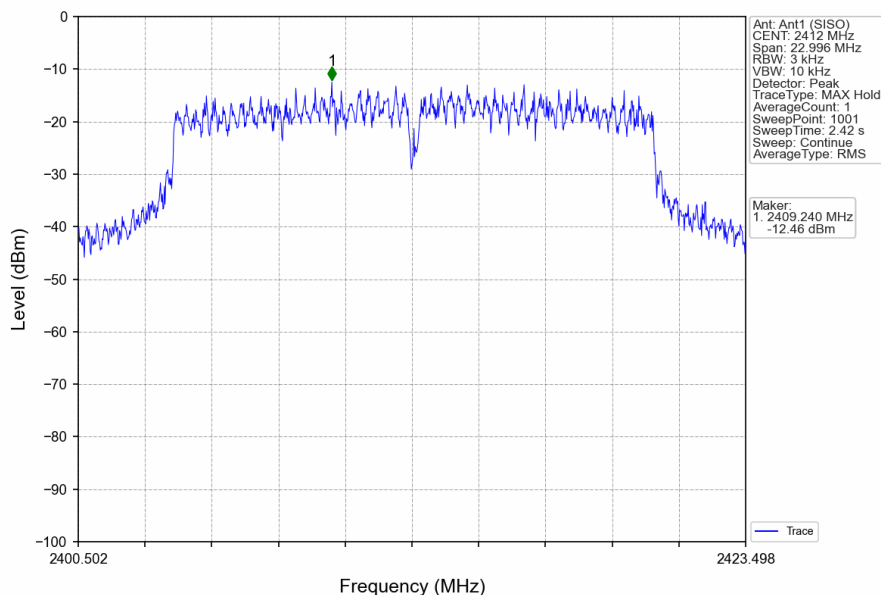
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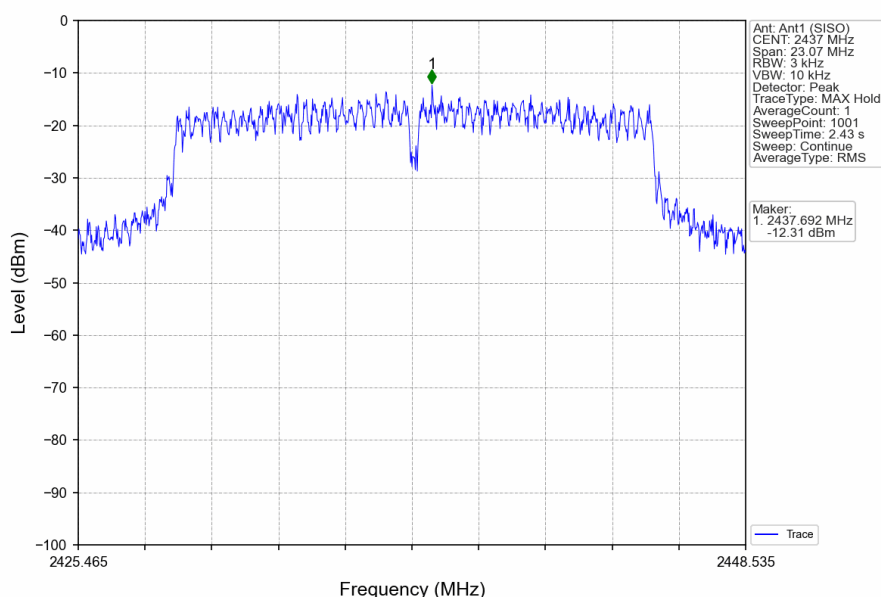
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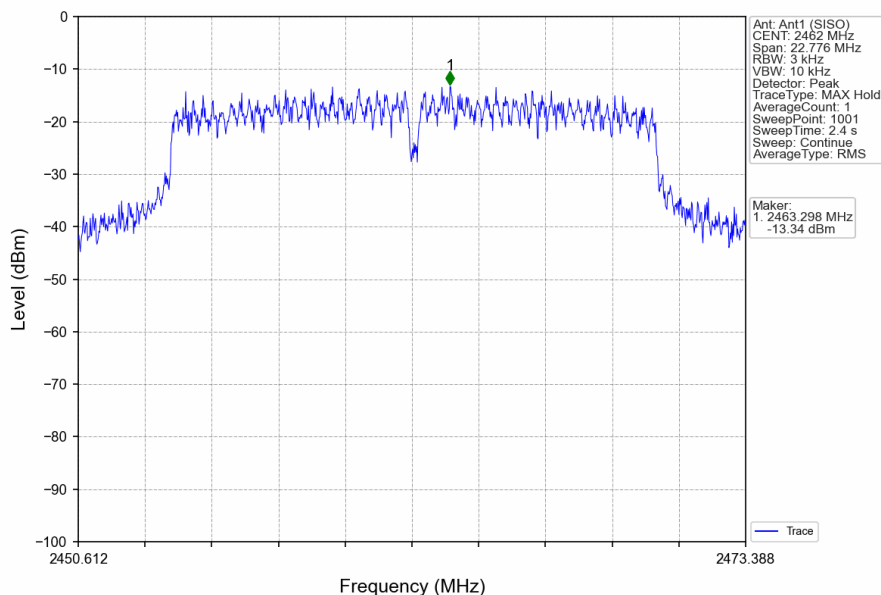
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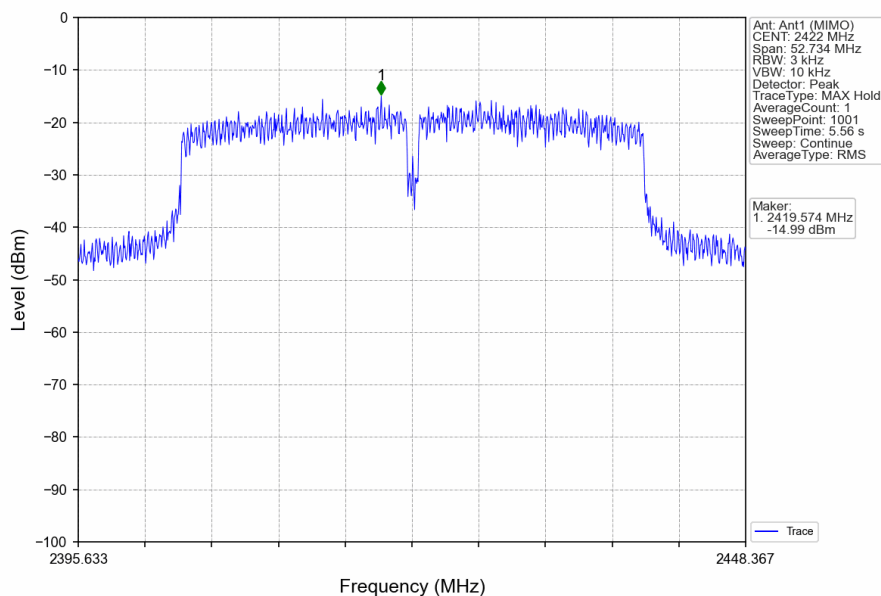
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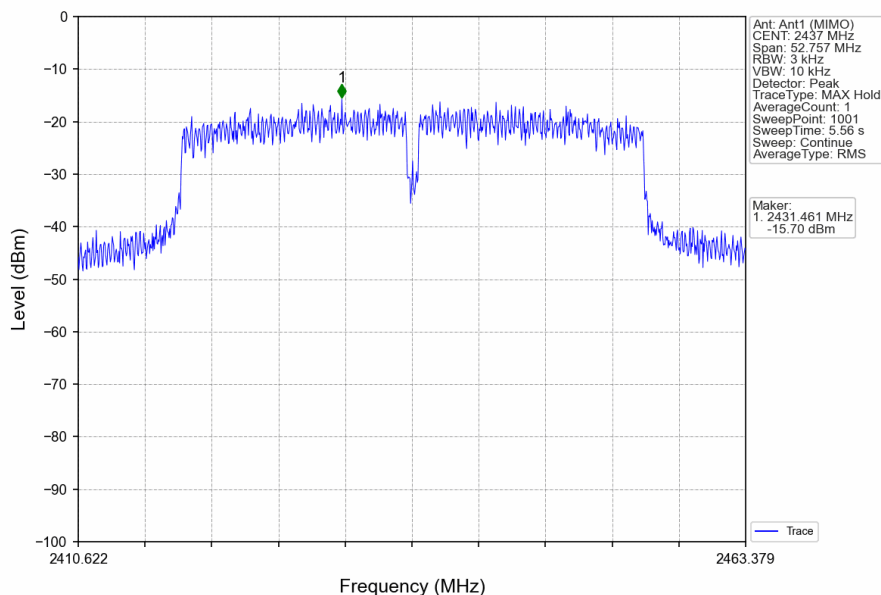
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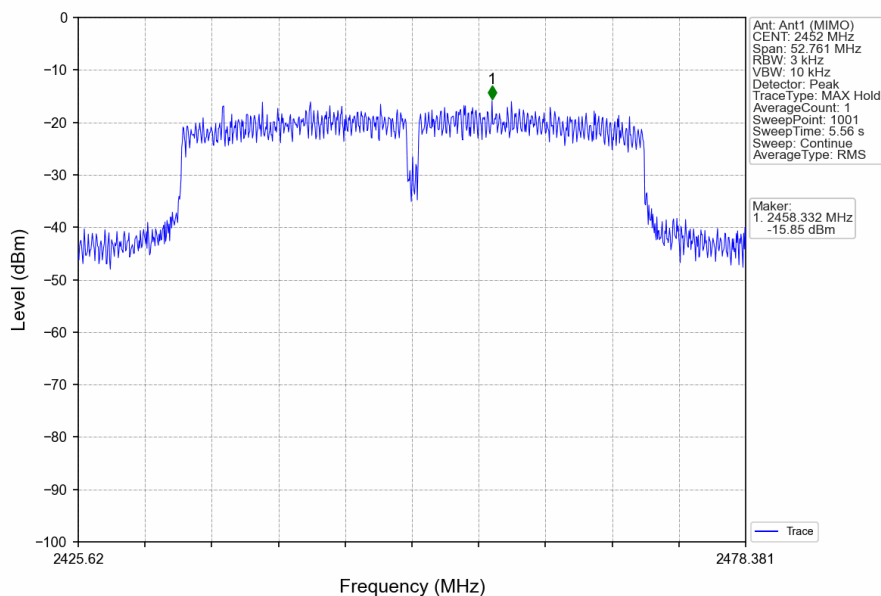
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	2.97
		2437	1	2.78
		2462	1	2.71
802.11g	SISO	2412	1	2.48
		2437	1	2.34
		2462	1	2.49
802.11n (HT40)	SISO	2422	1	-0.36
		2437	1	-0.75
		2452	1	-0.57

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.

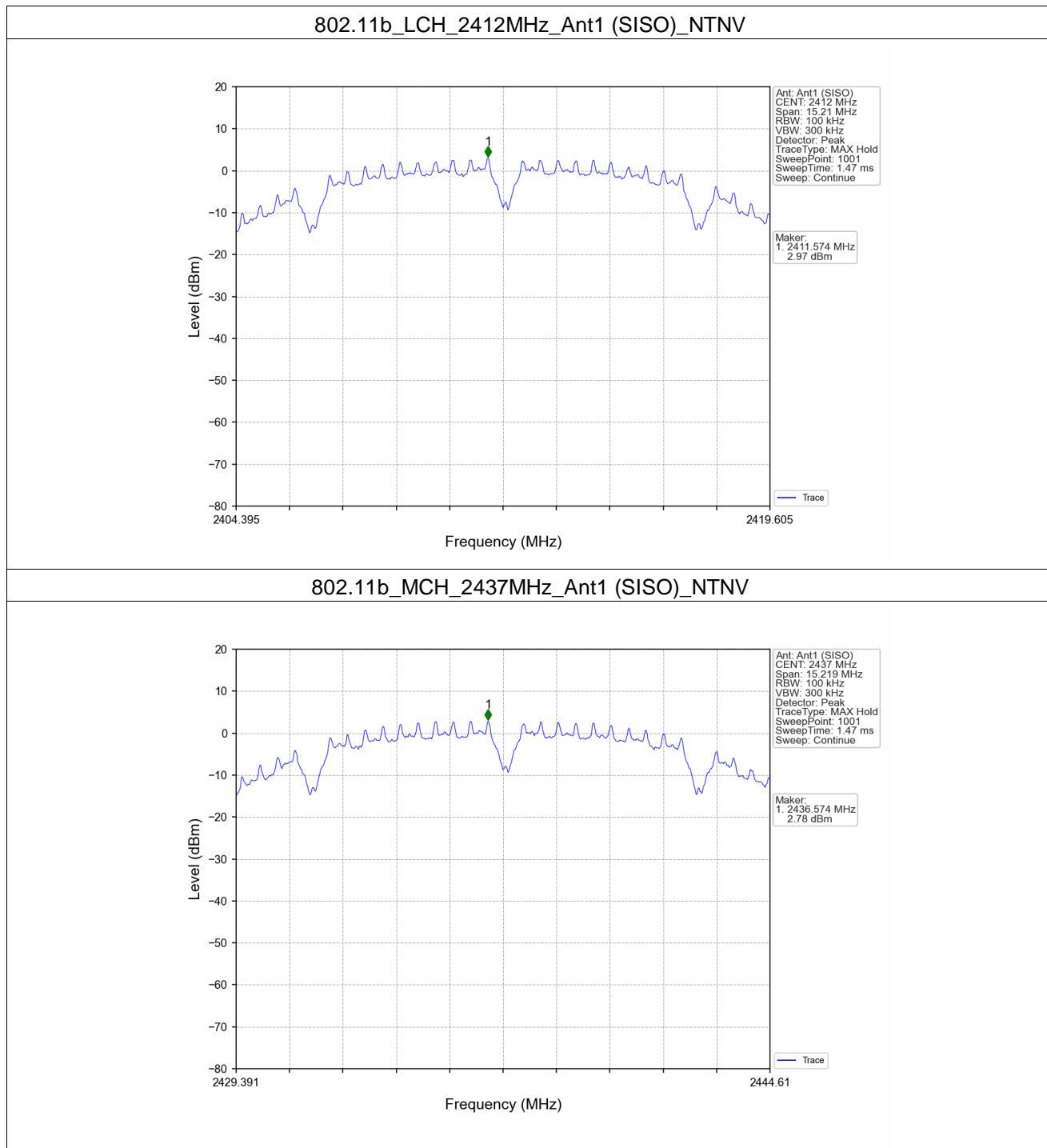
5.1.2 CSE and Band edges

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.97	-17.03	Pass
		2437	1	2.97	-17.03	Pass
		2462	1	2.97	-17.03	Pass
802.11g	SISO	2412	1	2.49	-17.51	Pass
		2437	1	2.49	-17.51	Pass
		2462	1	2.49	-17.51	Pass
802.11n (HT40)	SISO	2422	1	-0.36	-20.36	Pass
		2437	1	-0.36	-20.36	Pass
		2452	1	-0.36	-20.36	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.

5.2 Test Graph

5.2.1 Ref



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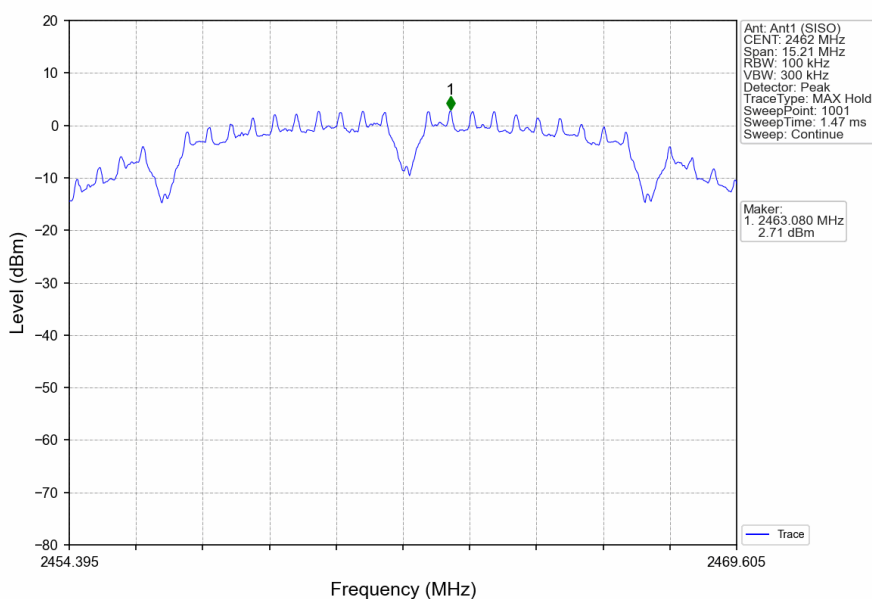
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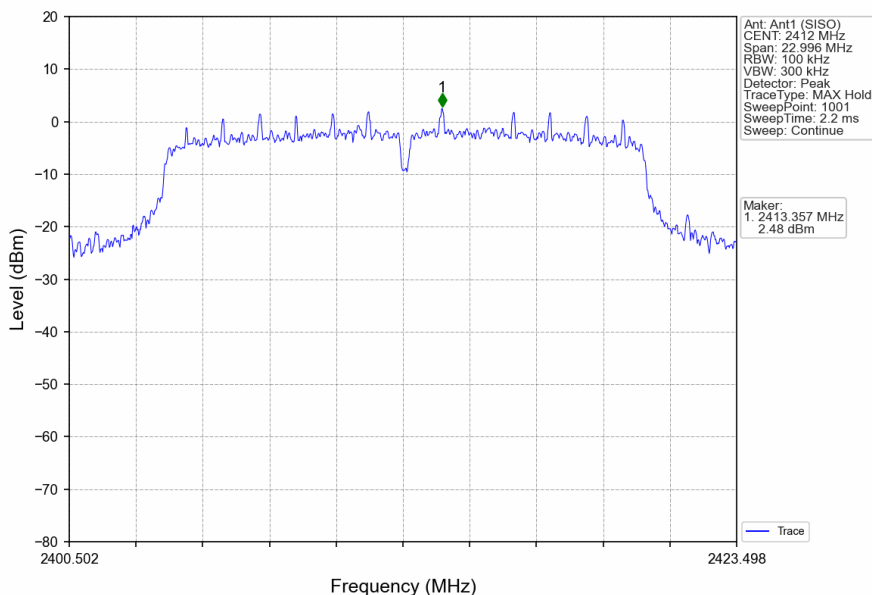
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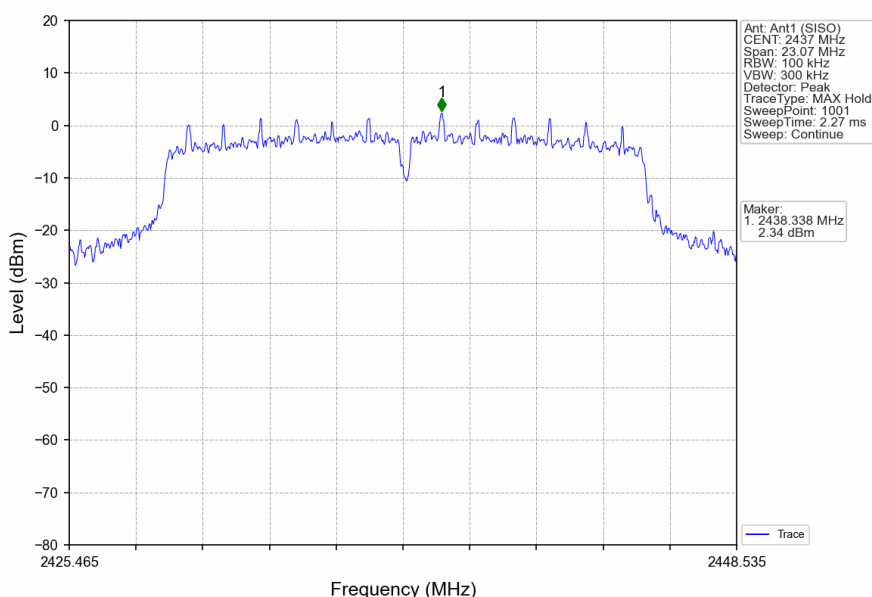
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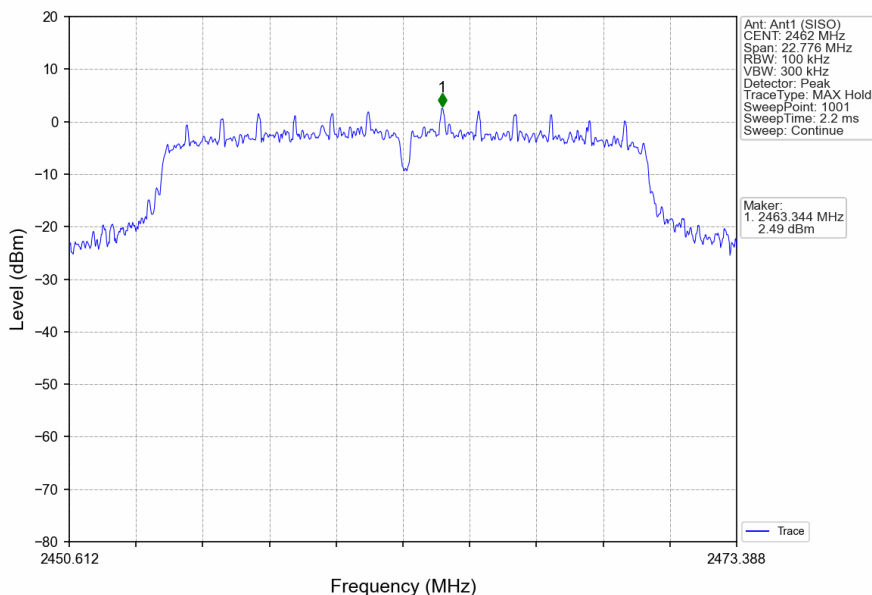
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



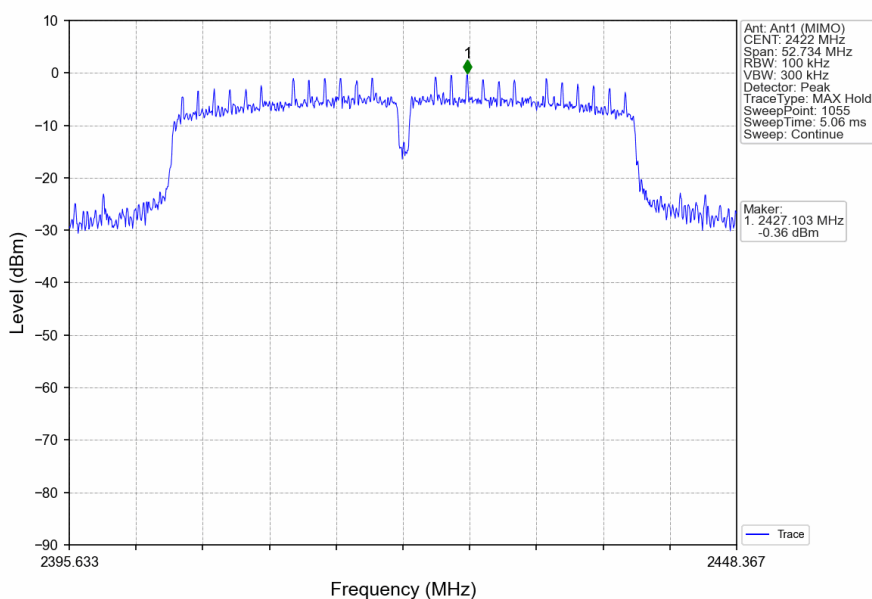
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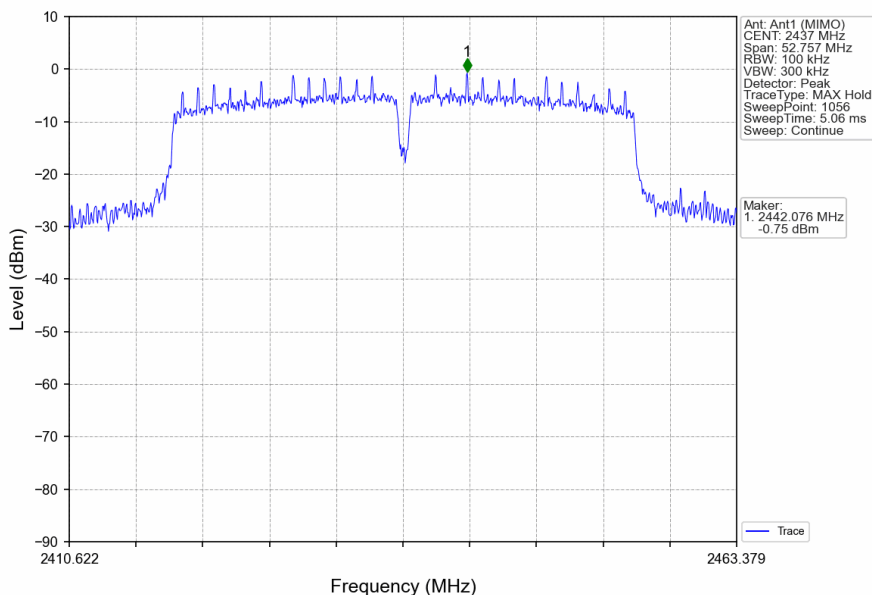
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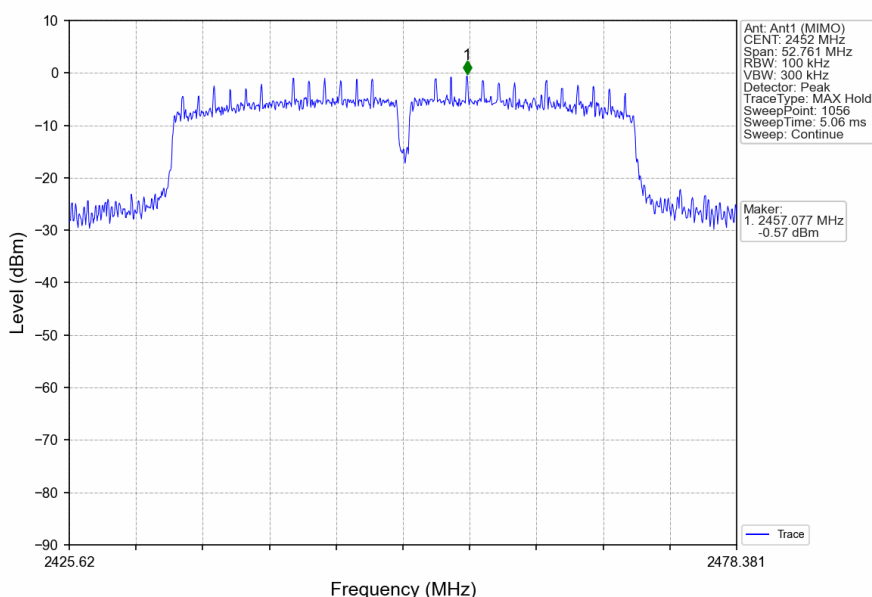
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

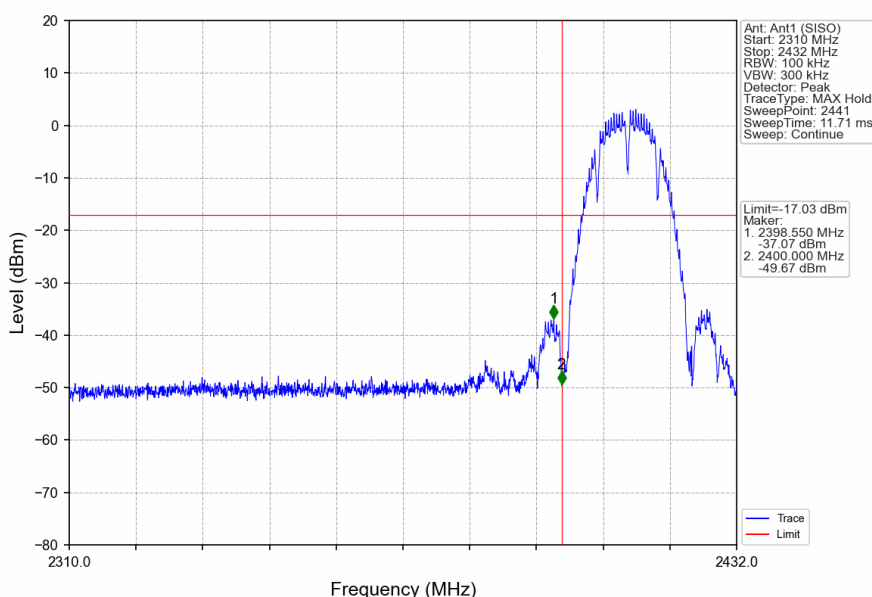


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

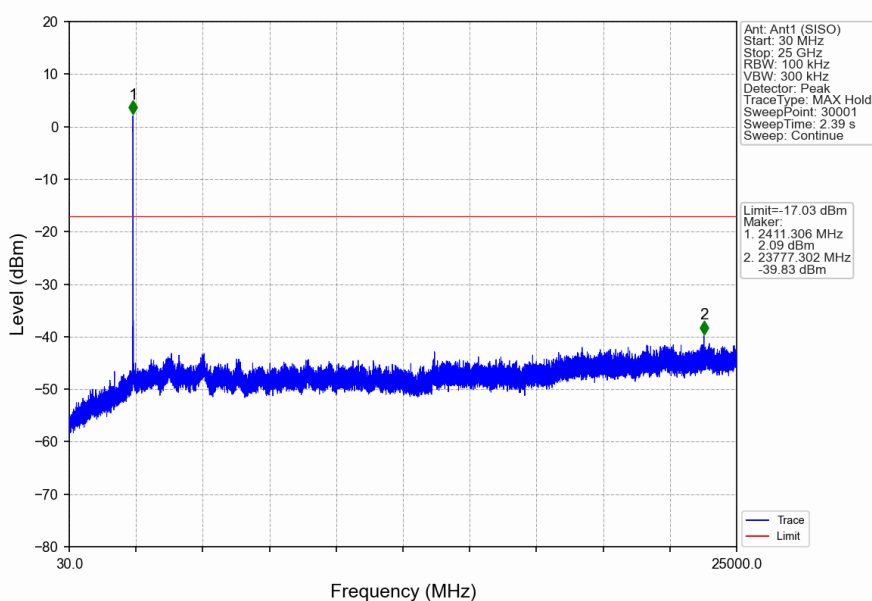


5.2.2 CSE and Band Edges

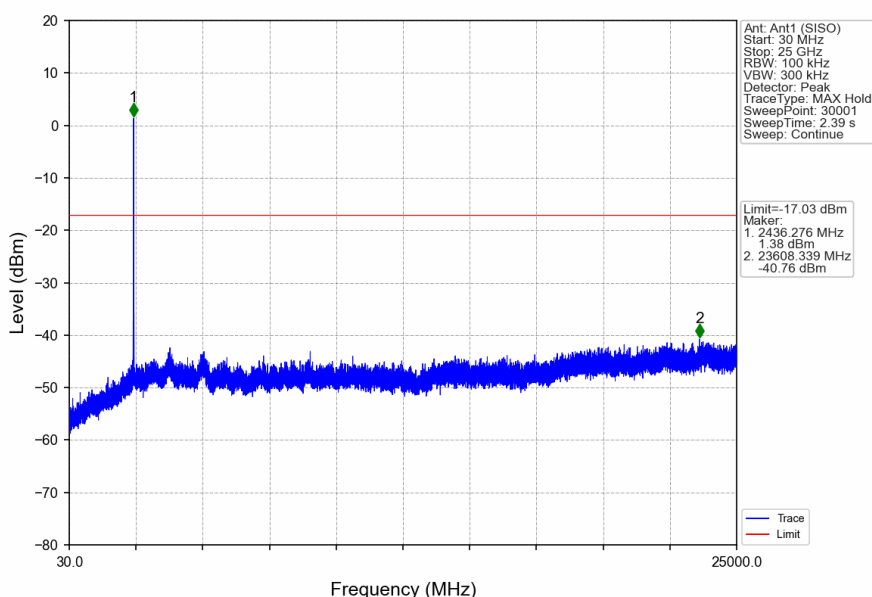
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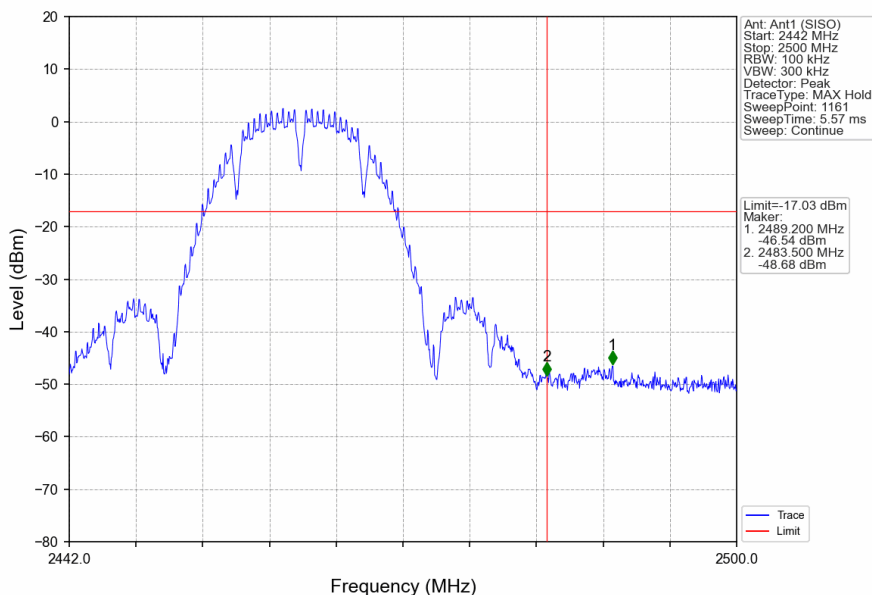
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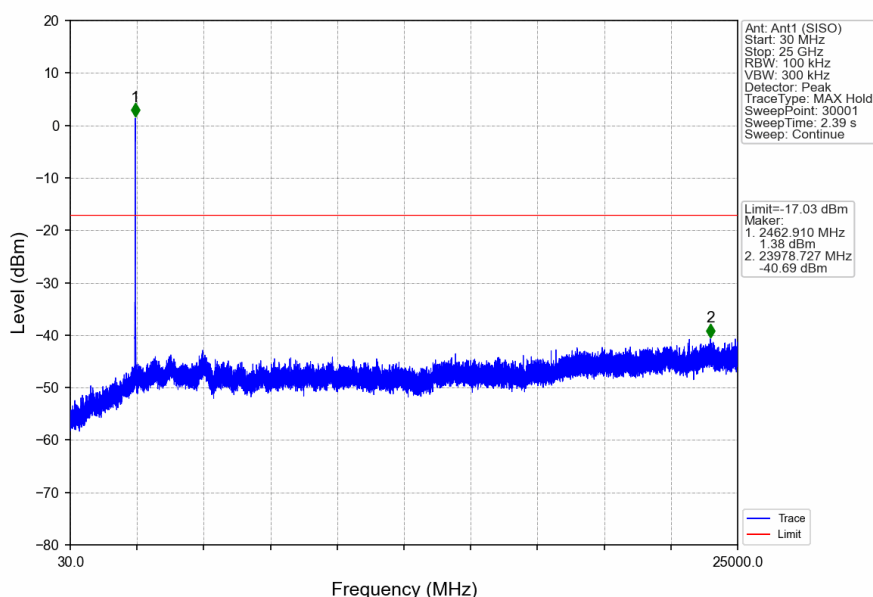
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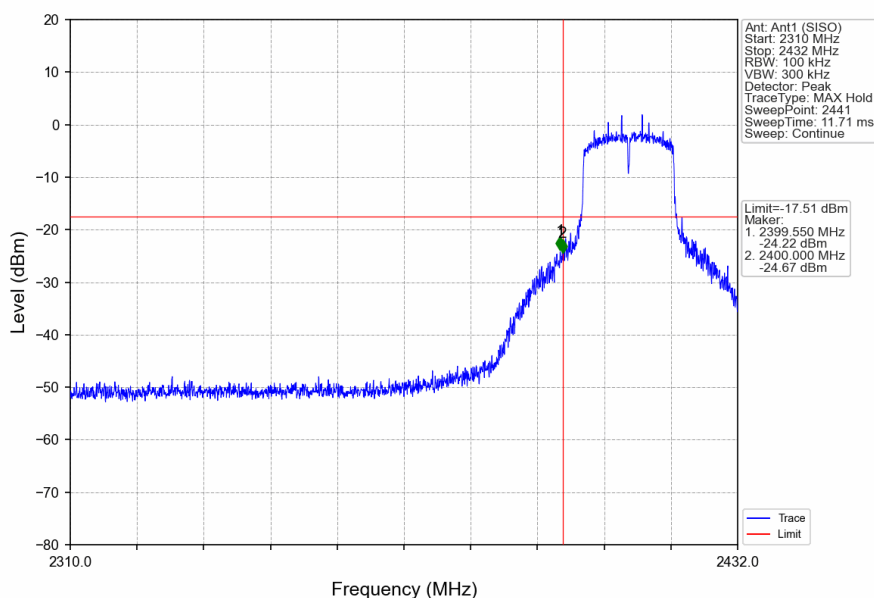
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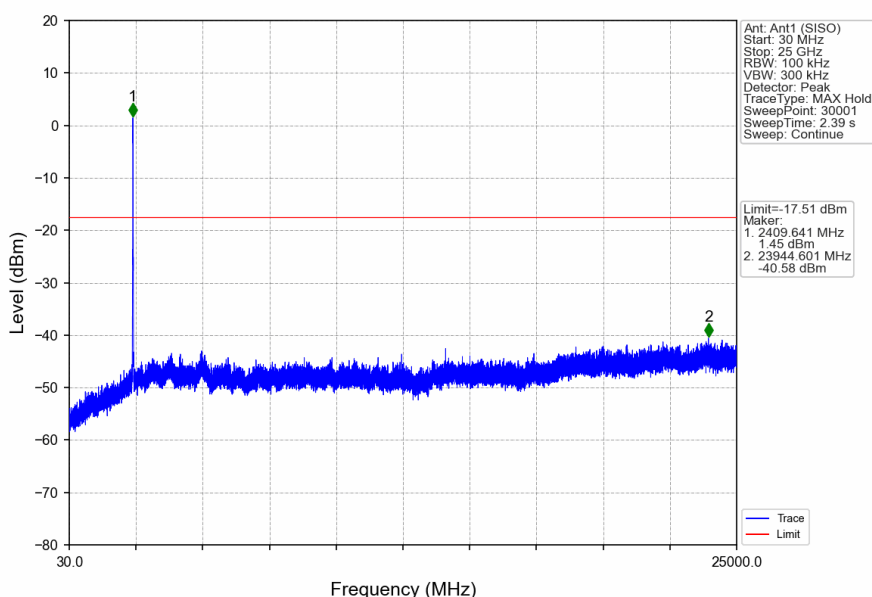
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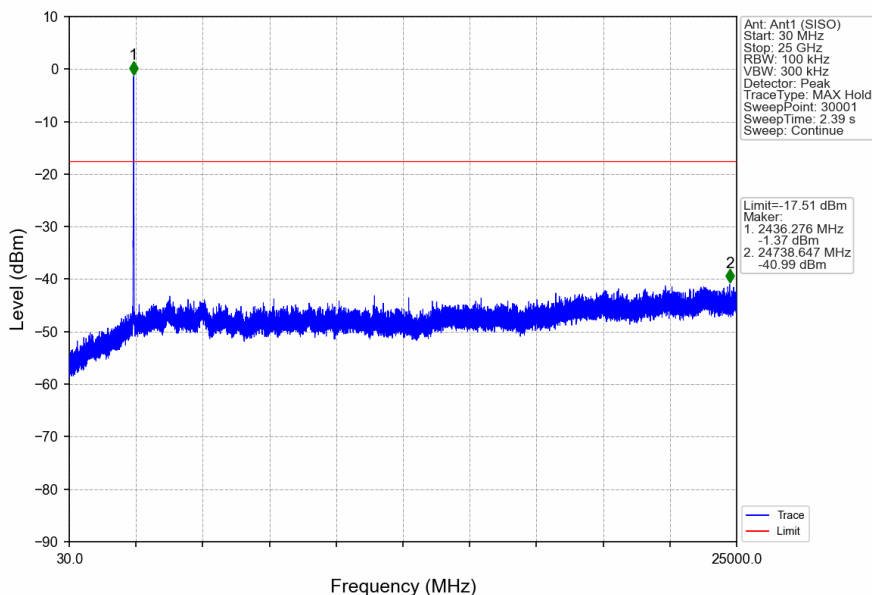
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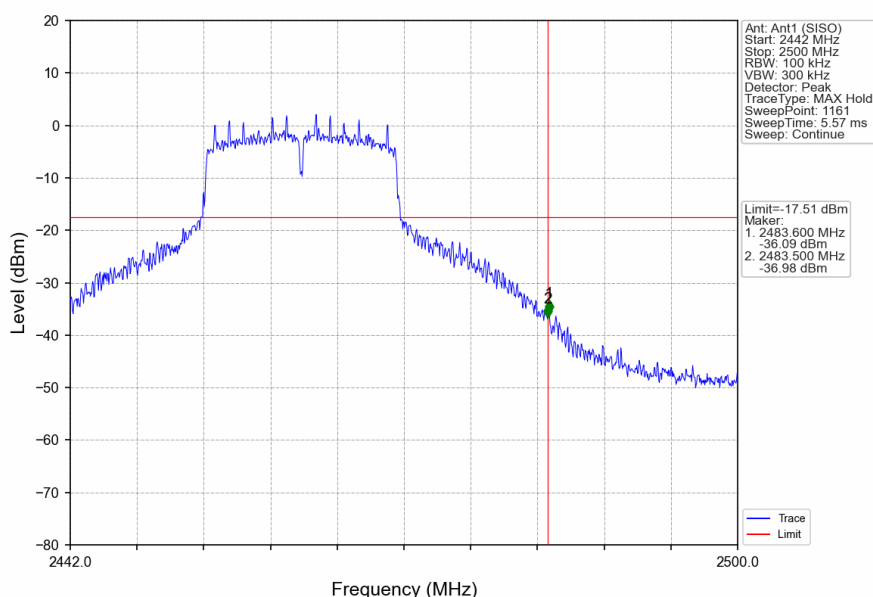
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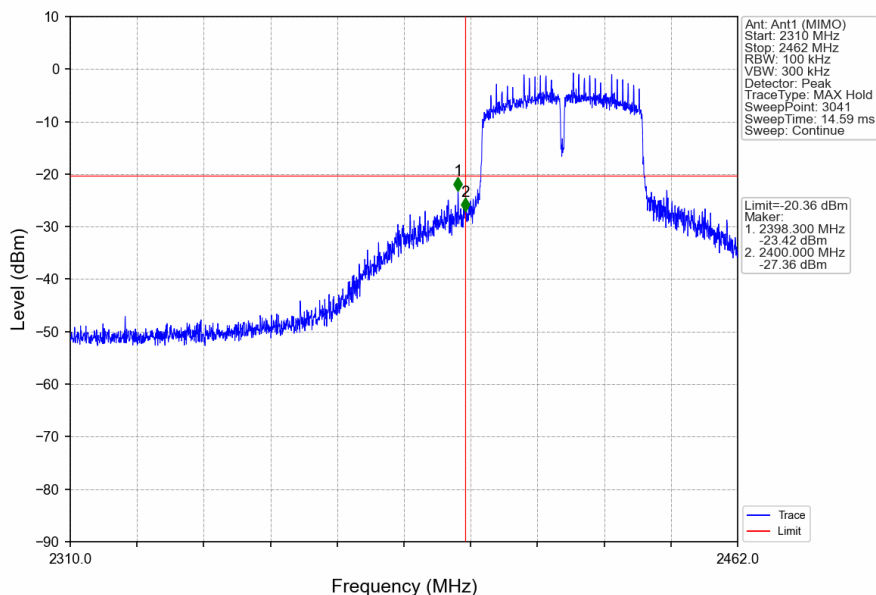
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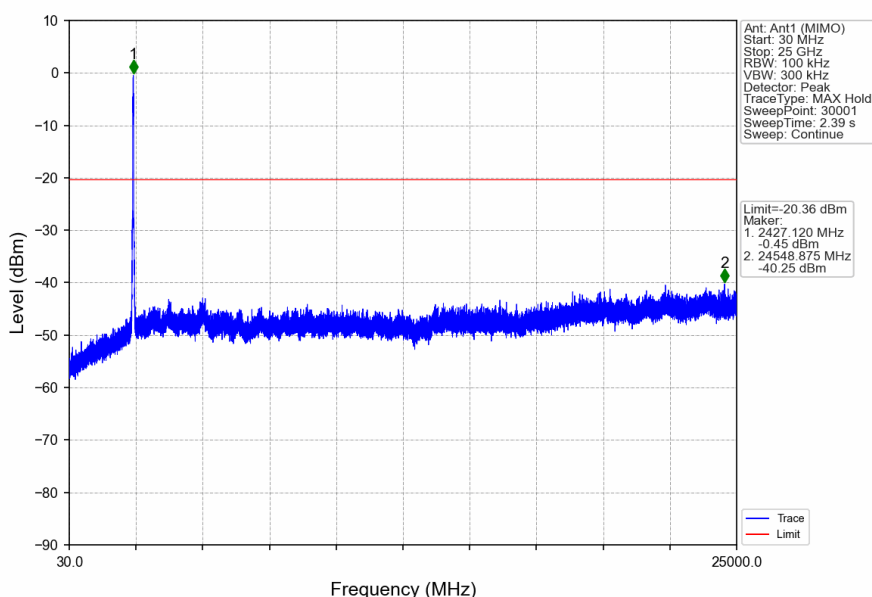
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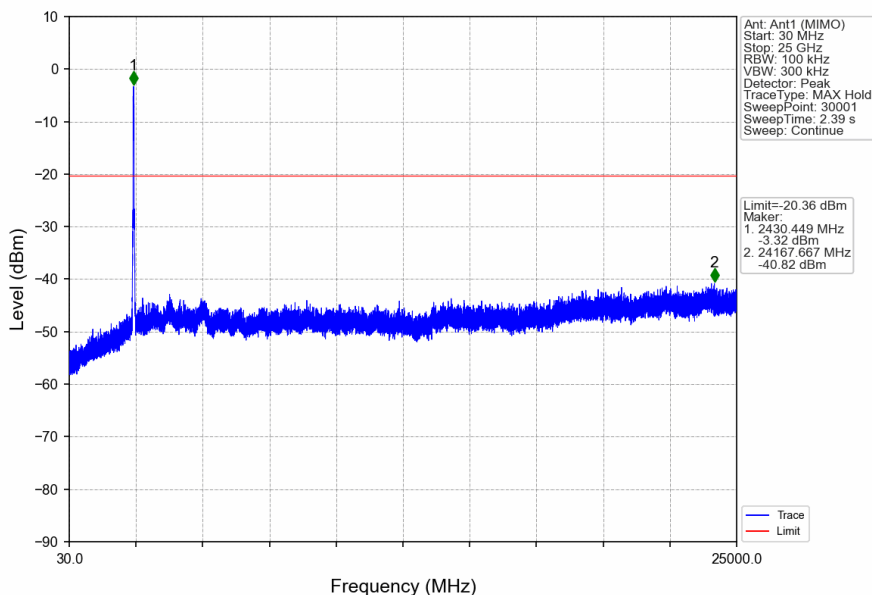
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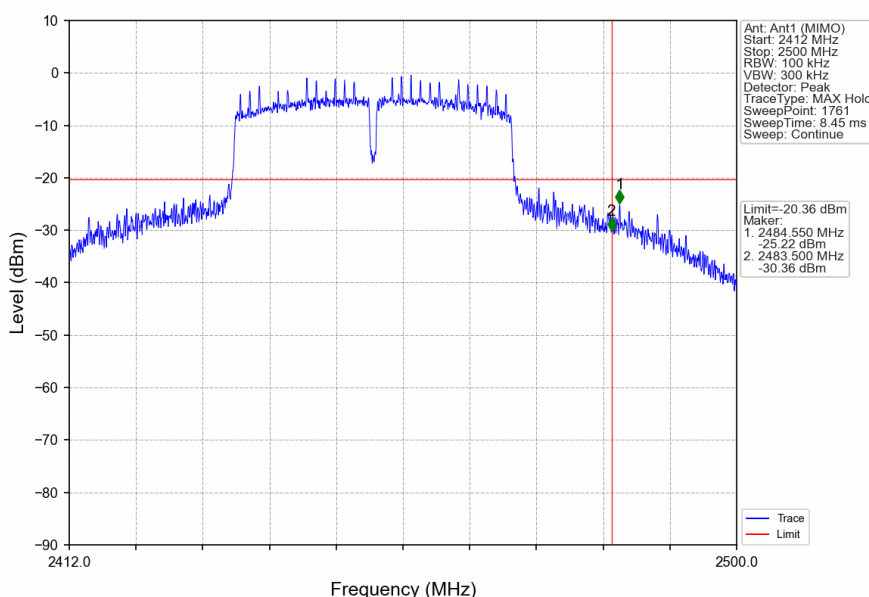
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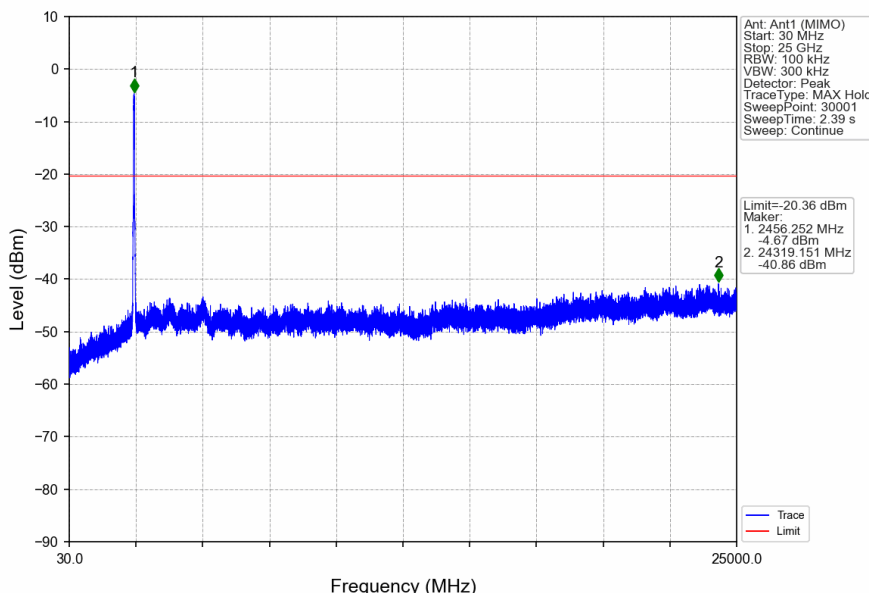
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -