

TEST REPORT

Application No.: GZCR2309001008AT
Applicant: Zhuhai Raysharp Technology Co., Ltd.
Address of Applicant: No.100 Technology 6th. Road, High-tech Zone, Zhuhai, Guangdong, P.R.China
Manufacturer: Zhuhai Raysharp Technology Co., Ltd.
Address of Manufacturer: No.100 Technology 6th. Road, High-tech Zone, Zhuhai, Guangdong, P.R.China
Factory: Zhuhai Raysharp Technology Co., Ltd.
Address of Factory: No.100 Technology 6th. Road, High-tech Zone, Zhuhai, Guangdong, P.R.China
Equipment Under Test (EUT):
EUT Name: Wireless Network Video Recorder
Model No.: RS-H7108HR-N-AH
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2023-09-26
Date of Test: 2023-10-18 to 2023-11-09
Date of Issue: 2023-11-14

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

Ricky Liu

Ricky Liu
Manager



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR230900100802	2023-11-14	Original

Authorized for issue by			
		Kevin Zhang	
		Kevin Zhang/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
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**

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.

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



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 12 V

Cable(s): DC input ports
USB ports*2
HDMI ports
LAN ports
Micro SD card ports

Test Voltage: AC 120 V, 60 Hz powered by CS Power Supply refer to section 4.2
802.11ah(2MHz): 905MHz to 925MHz;

Operation Frequency: 802.11ah(4MHz): 906MHz to 926MHz;
802.11ah(8MHz): 908MHz to 924MHz

Modulation Type: BPSK, QPSK, QAM16, QAM64
802.11ah(2MHz): 11;

Number of Channels: 802.11ah(4MHz): 6;
802.11ah(8MHz): 3
802.11ah(2MHz): 2MHz;

Channel Spacing: 802.11ah(4MHz): 4MHz;
802.11ah(8MHz): 8MHz

Antenna Type: External Antenna with RP-SMA connector

Antenna Gain: 1.97 dBi max

Antenna Number: 1

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
CS Power Supply	C.SA	CS-1202000 (Input: AC100-240V, 1.5 A Max, 50/60Hz;Output: DC Max.12V, 2A)	/
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: The U _{lab} (lab Uncertainty) is less than U _{ETST} (ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

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	2023-08-04	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
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2023-02-20	2024-02-19
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2023-04-13	2024-04-12
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



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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	2023-02-20	2024-02-19
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2023-04-13	2024-04-12
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	2022-04-06	2024-04-05

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	2022-12-16	2023-12-15
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2022-12-16	2023-12-15
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	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	2020-12-20	2023-12-19
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 1.97 dBi.

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 (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: 23.6 °C

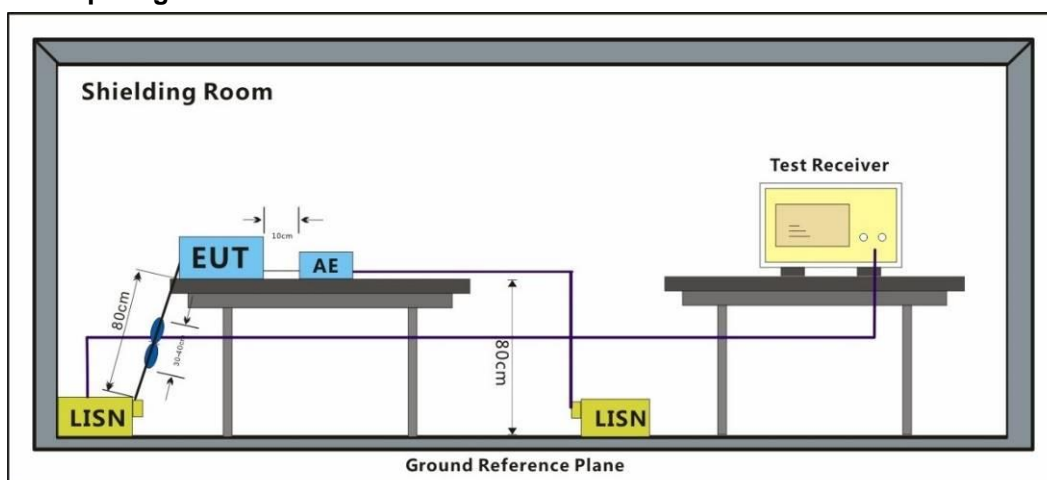
Humidity: 56.3 % RH

Atmospheric Pressure: 1007 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.1.3 Test Setup Diagram



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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.

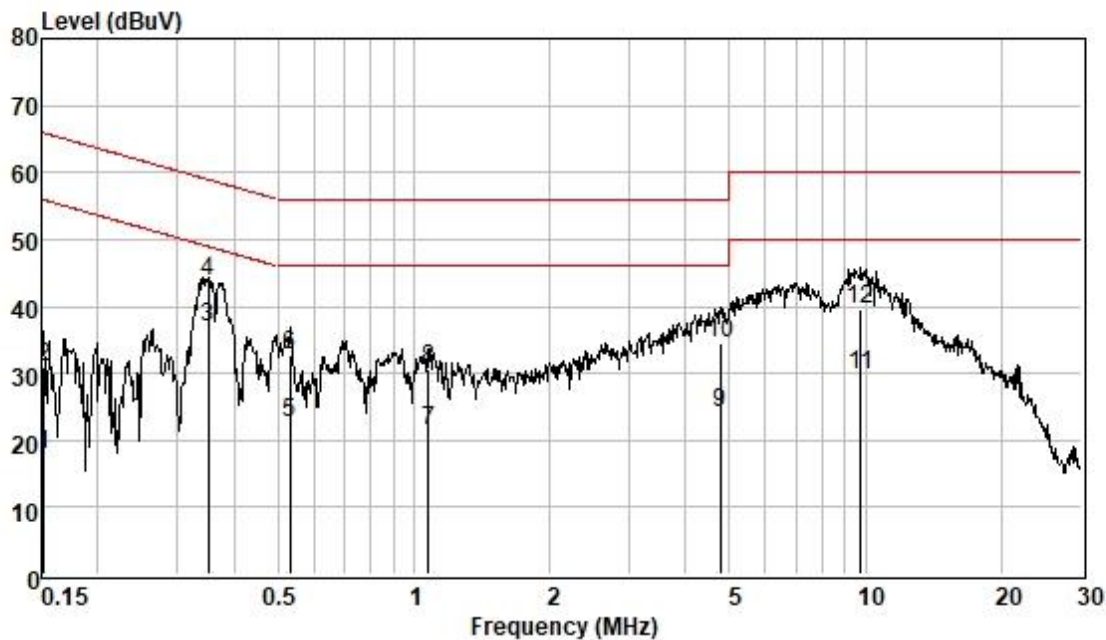
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 00; Line: Live line



Pol : LINE
Mode :
Model :
Power :

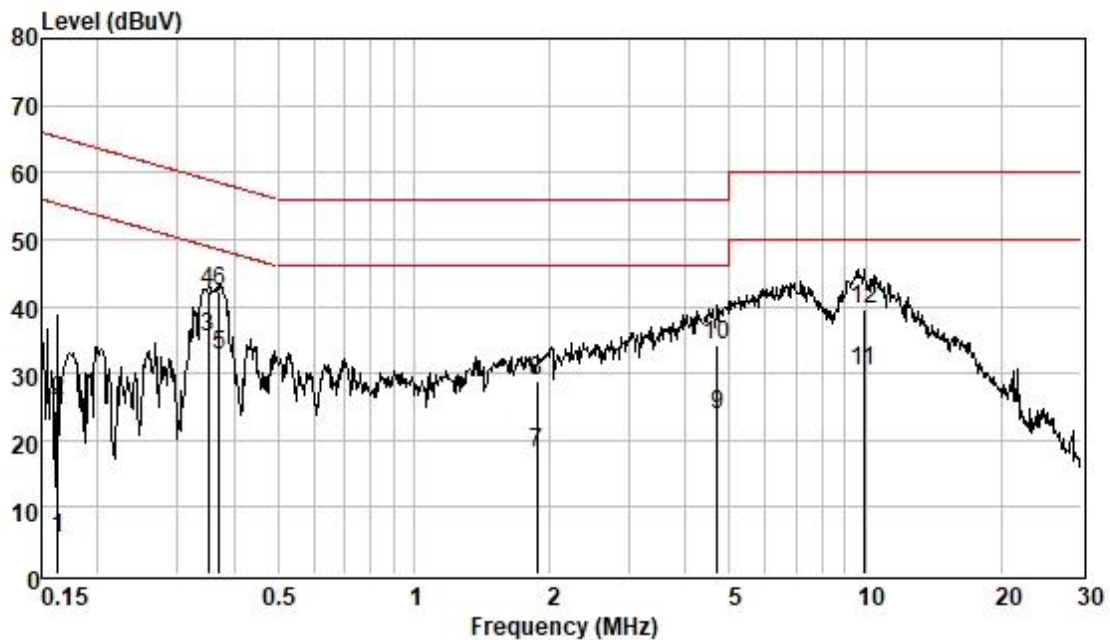
	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	8.28	0.04	9.55	17.87	55.91	-38.04	Average
2	0.152	21.46	0.04	9.55	31.05	65.91	-34.86	QP
3	0.350	27.34	0.05	9.57	36.96	48.96	-12.00	Average
4	0.350	34.02	0.05	9.57	43.64	58.96	-15.32	QP
5	0.532	13.01	0.05	9.56	22.62	46.00	-23.38	Average
6	0.532	23.01	0.05	9.56	32.62	56.00	-23.38	QP
7	1.077	11.67	0.08	9.57	21.32	46.00	-24.68	Average
8	1.077	21.05	0.08	9.57	30.70	56.00	-25.30	QP
9	4.772	14.27	0.19	9.62	24.08	46.00	-21.92	Average
10	4.772	24.60	0.19	9.62	34.41	56.00	-21.59	QP
11	9.757	19.79	0.25	9.74	29.78	50.00	-20.22	Average
12	9.757	29.65	0.25	9.74	39.64	60.00	-20.36	QP



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Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :
Power :

	Frequency MHz	Read Level dBUV	Cable Loss dB	LISN Factor dB	Measured Level dBUV	Limit Line dBUV	Over Limit dB	Remark
1	0.163	-4.23	0.04	9.52	5.33	55.30	-49.97	Average
2	0.163	16.17	0.04	9.52	25.73	65.30	-39.57	QP
3	0.350	25.78	0.05	9.54	35.37	48.96	-13.59	Average
4	0.350	32.66	0.05	9.54	42.25	58.96	-16.71	QP
5	0.371	23.15	0.05	9.54	32.74	48.47	-15.73	Average
6	0.371	32.56	0.05	9.54	42.15	58.47	-16.32	QP
7	1.878	8.42	0.12	9.55	18.09	46.00	-27.91	Average
8	1.878	19.16	0.12	9.55	28.83	56.00	-27.17	QP
9	4.696	14.02	0.19	9.62	23.83	46.00	-22.17	Average
10	4.696	24.30	0.19	9.62	34.11	56.00	-21.89	QP
11	9.913	20.30	0.25	9.74	30.29	50.00	-19.71	Average
12	9.913	29.44	0.25	9.74	39.43	60.00	-20.57	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: 20.9 °C

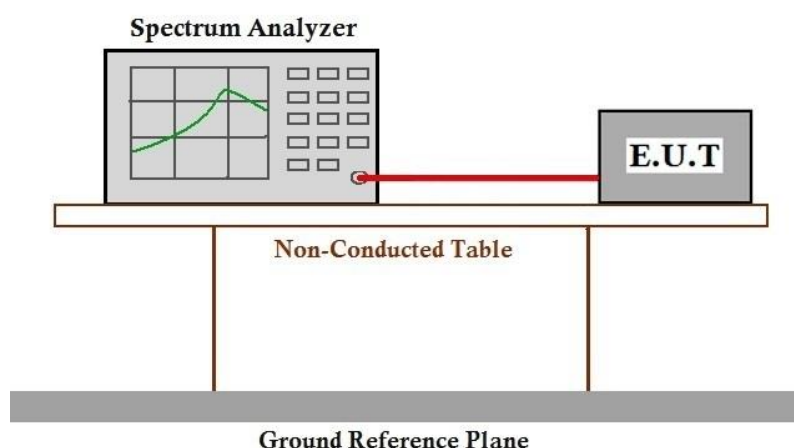
Humidity: 64.8 % RH

Atmospheric Pressure: 1007 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

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

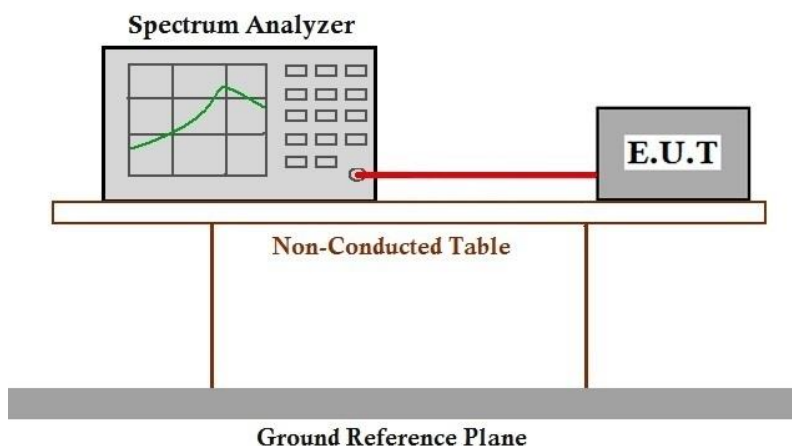
Operating Environment:

Temperature: 20.9 °C Humidity: 64.8 % RH Atmospheric Pressure: 1007 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

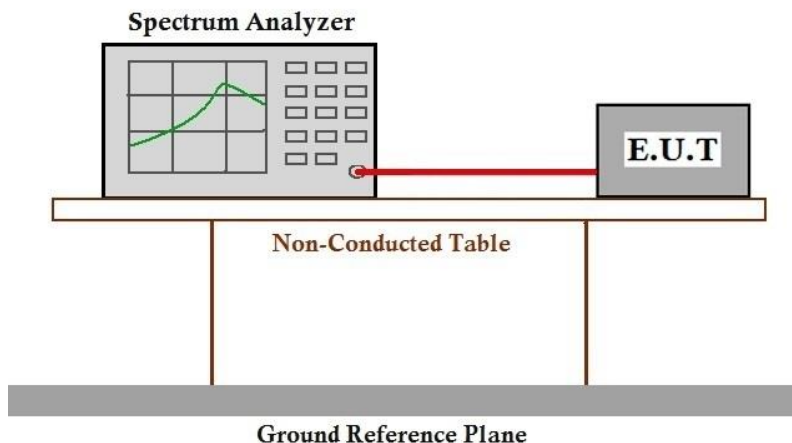
7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.9 °C Humidity: 64.8 % RH Atmospheric Pressure: 1007 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 20.9 °C

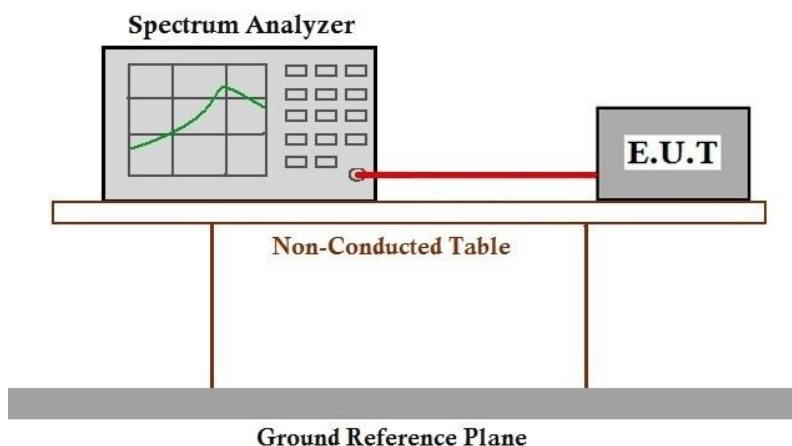
Humidity: 64.8 % RH

Atmospheric Pressure: 1007 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 20.9 °C

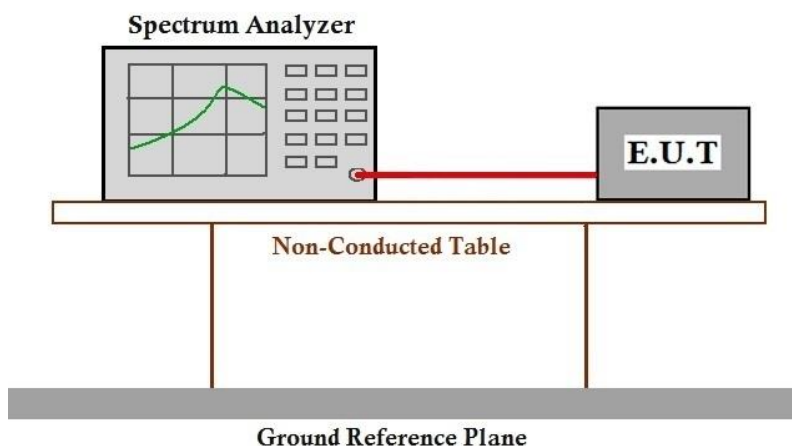
Humidity: 64.8 % RH

Atmospheric Pressure: 1007 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 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: 24.3 °C

Humidity: 66.3 % RH

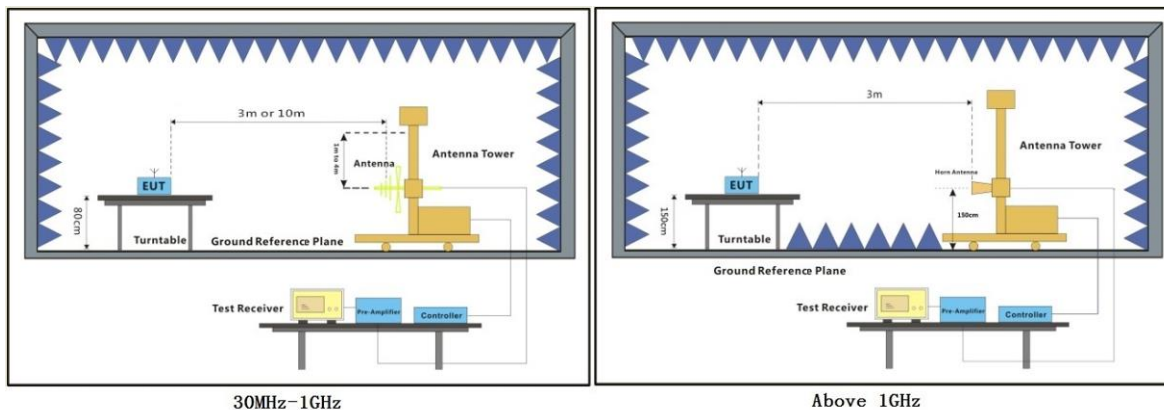
Atmospheric Pressure: 1007 mbar

7.7.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

Final test 00 TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.7.3 Test Setup Diagram



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7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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

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

Please refer to section 7.8 for details.



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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: 24.1 °C

Humidity: 55.7 % RH

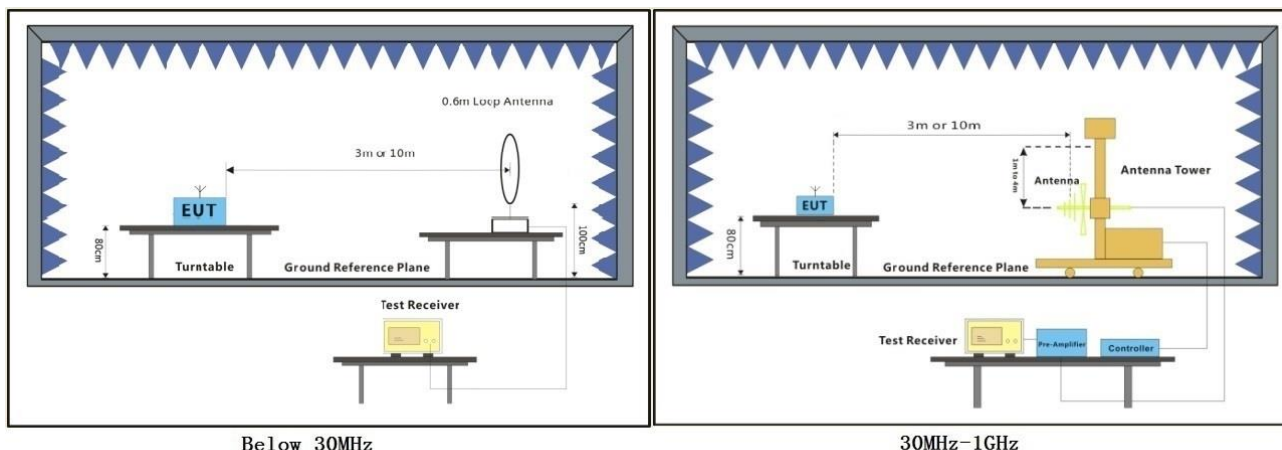
Atmospheric Pressure: 1007 mbar

7.8.2 Test Mode Description

Pre-scan / Mode
Final test Code Description

Final test 00 TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.8.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak 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:

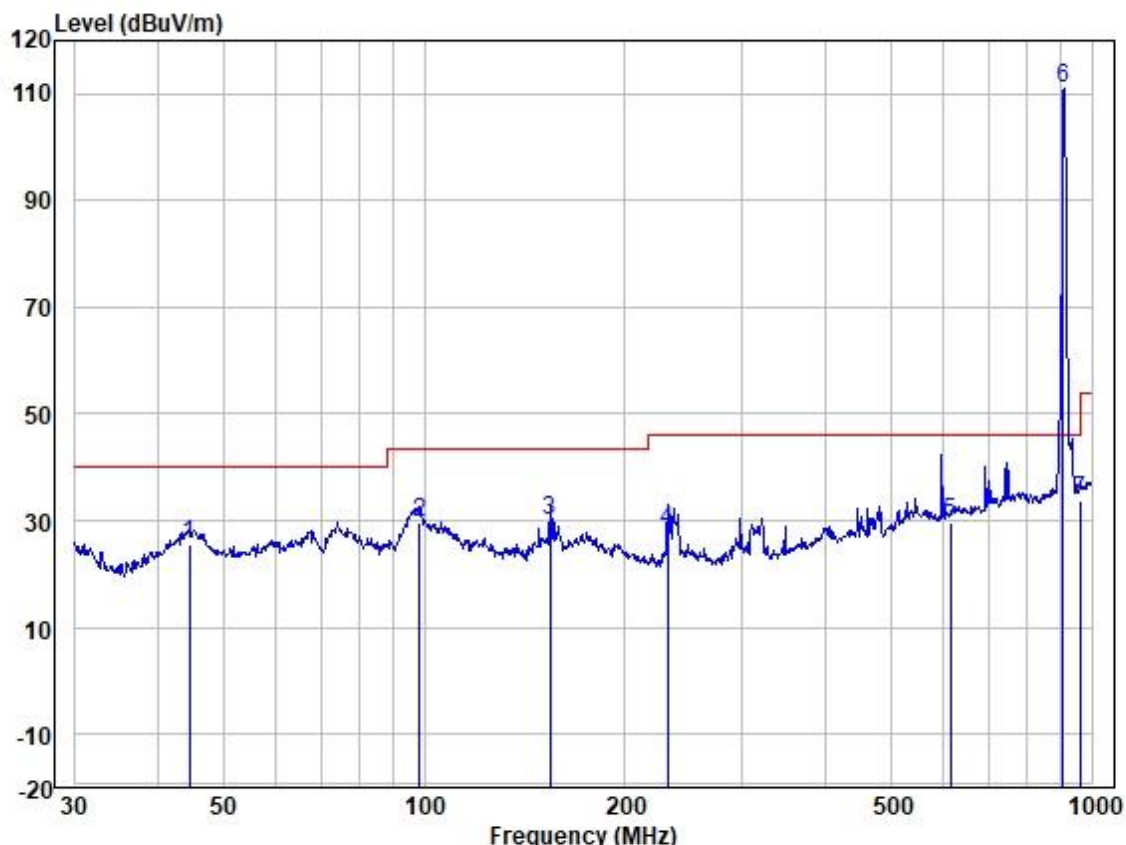
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from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



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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ah; Bandwidth: 2MHz; Channel: Low



Site : 966 Chamber
Job :
Model :
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	44.587	38.39	19.45	0.37	32.81	25.40	40.00	-14.60	VERTICAL	QP
2	98.487	47.42	14.41	0.54	32.80	29.57	43.52	-13.95	VERTICAL	QP
3	154.279	42.97	19.14	0.68	32.80	29.99	43.52	-13.53	VERTICAL	QP
4	231.718	43.51	16.45	0.83	32.80	27.99	46.02	-18.03	VERTICAL	QP
5	614.000	35.24	25.92	1.44	32.89	29.71	46.02	-16.31	VERTICAL	QP
6	905.000	111.50	29.45	1.76	31.58	111.13	46.02	65.11	VERTICAL	Peak
7	960.000	33.26	29.74	1.82	30.98	33.84	46.02	-12.18	VERTICAL	QP

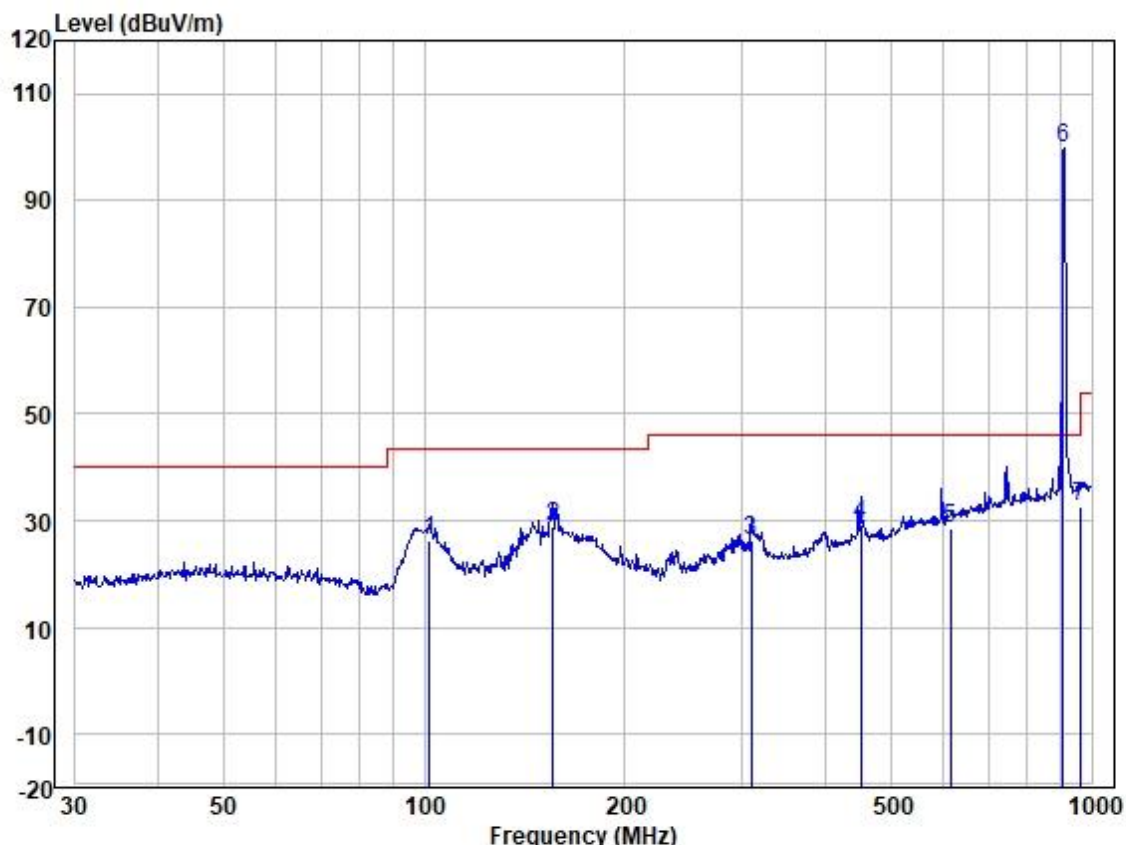
The point 6 is the fundamental of RF frequency of the EUT which was evaluated in section 7.2.



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:2MHz; Channel:Low



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

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	102.001	43.67	14.87	0.54	32.80	26.28	43.52	-17.24	HORIZONTAL	QP
2	155.910	41.81	19.17	0.69	32.80	28.87	43.52	-14.65	HORIZONTAL	QP
3	308.913	38.66	19.47	0.99	32.80	26.32	46.02	-19.70	HORIZONTAL	QP
4	451.135	38.34	22.75	1.23	32.85	29.47	46.02	-16.55	HORIZONTAL	QP
5	614.000	34.06	25.92	1.44	32.89	28.53	46.02	-17.49	HORIZONTAL	QP
6	905.000	100.28	29.45	1.76	31.58	99.91	46.02	53.89	HORIZONTAL	Peak
7	960.000	32.12	29.74	1.82	30.98	32.70	46.02	-13.32	HORIZONTAL	QP

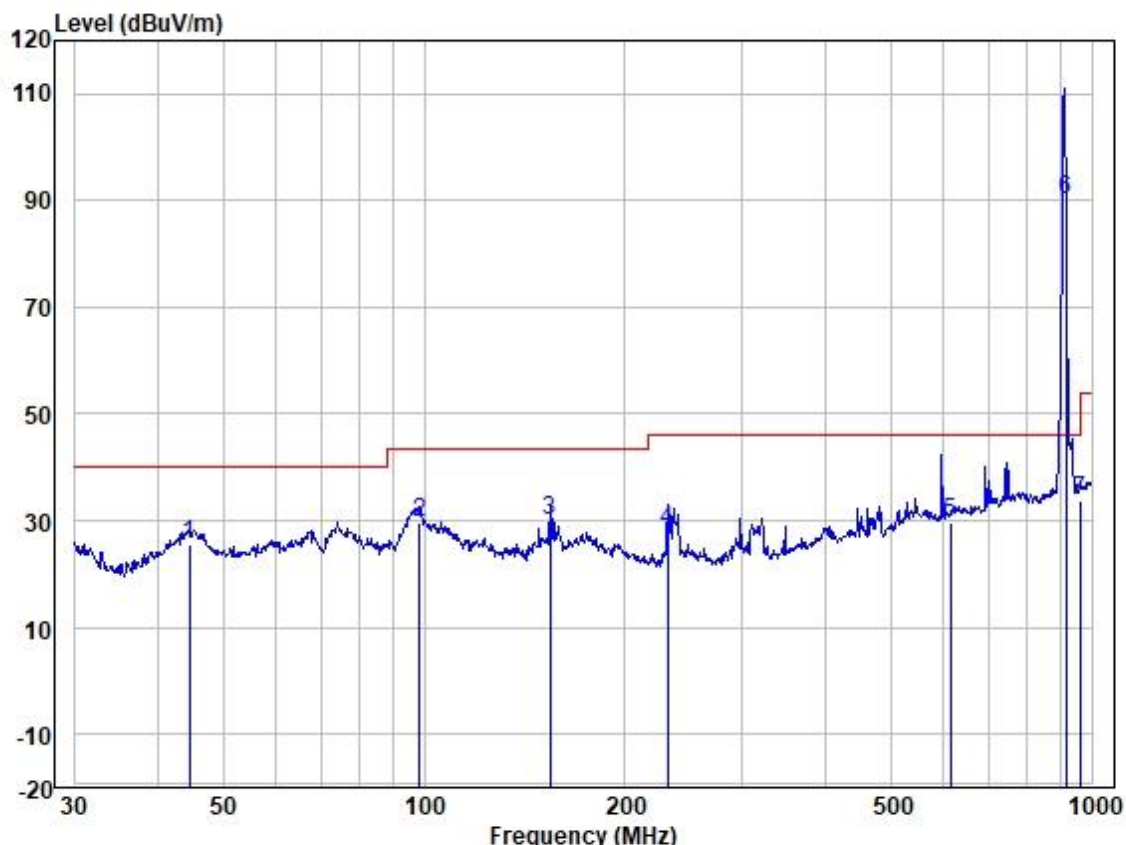
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:2MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
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	44.587	38.39	19.45	0.37	32.81	25.40	40.00	-14.60	VERTICAL	QP
2	98.487	47.42	14.41	0.54	32.80	29.57	43.52	-13.95	VERTICAL	QP
3	154.279	42.97	19.14	0.68	32.80	29.99	43.52	-13.53	VERTICAL	QP
4	231.718	43.51	16.45	0.83	32.80	27.99	46.02	-18.03	VERTICAL	QP
5	614.000	35.24	25.92	1.44	32.89	29.71	46.02	-16.31	VERTICAL	QP
6	915.000	90.50	29.50	1.77	31.53	90.24	46.02	44.22	VERTICAL	Peak
7	960.000	33.26	29.74	1.82	30.98	33.84	46.02	-12.18	VERTICAL	QP

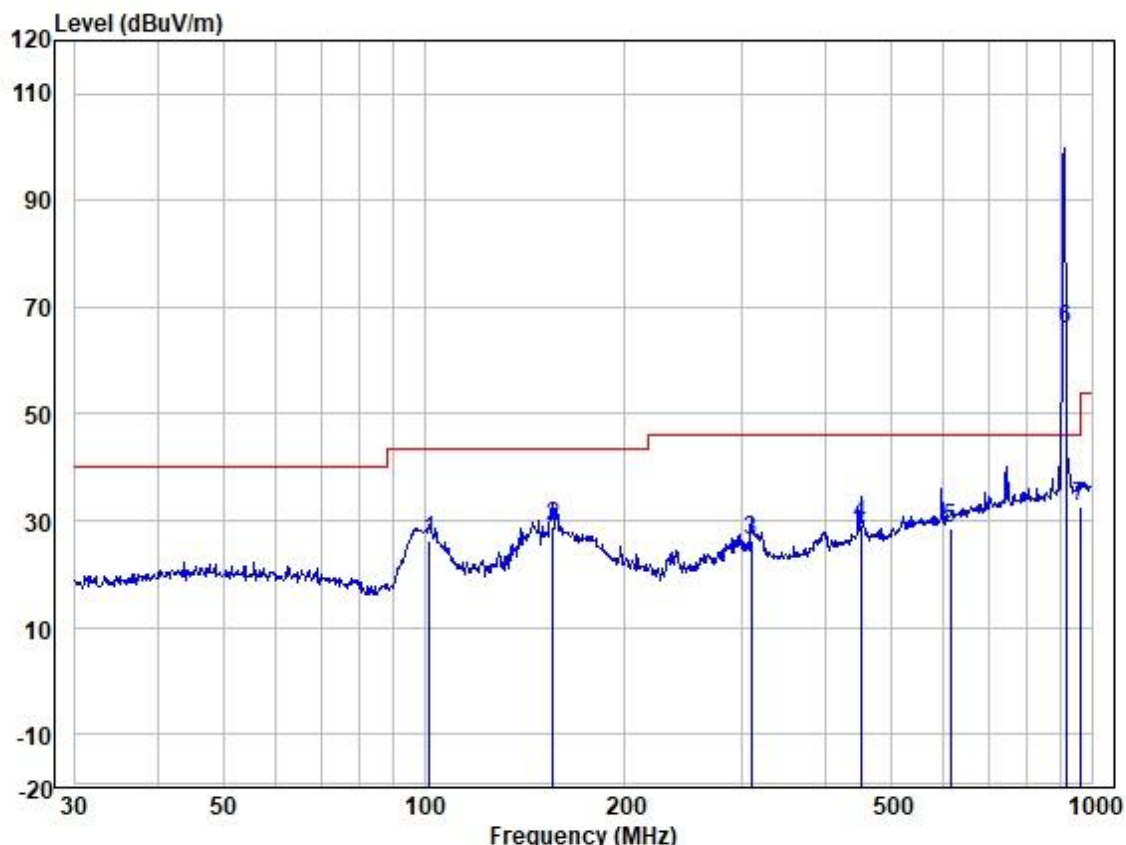
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:2MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
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	102.001	43.67	14.87	0.54	32.80	26.28	43.52	-17.24	HORIZONTAL	QP
2	155.910	41.81	19.17	0.69	32.80	28.87	43.52	-14.65	HORIZONTAL	QP
3	308.913	38.66	19.47	0.99	32.80	26.32	46.02	-19.70	HORIZONTAL	QP
4	451.135	38.34	22.75	1.23	32.85	29.47	46.02	-16.55	HORIZONTAL	QP
5	614.000	34.06	25.92	1.44	32.89	28.53	46.02	-17.49	HORIZONTAL	QP
6	915.000	66.27	29.50	1.77	31.53	66.01	46.02	19.99	HORIZONTAL	Peak
7	960.000	32.12	29.74	1.82	30.98	32.70	46.02	-13.32	HORIZONTAL	QP

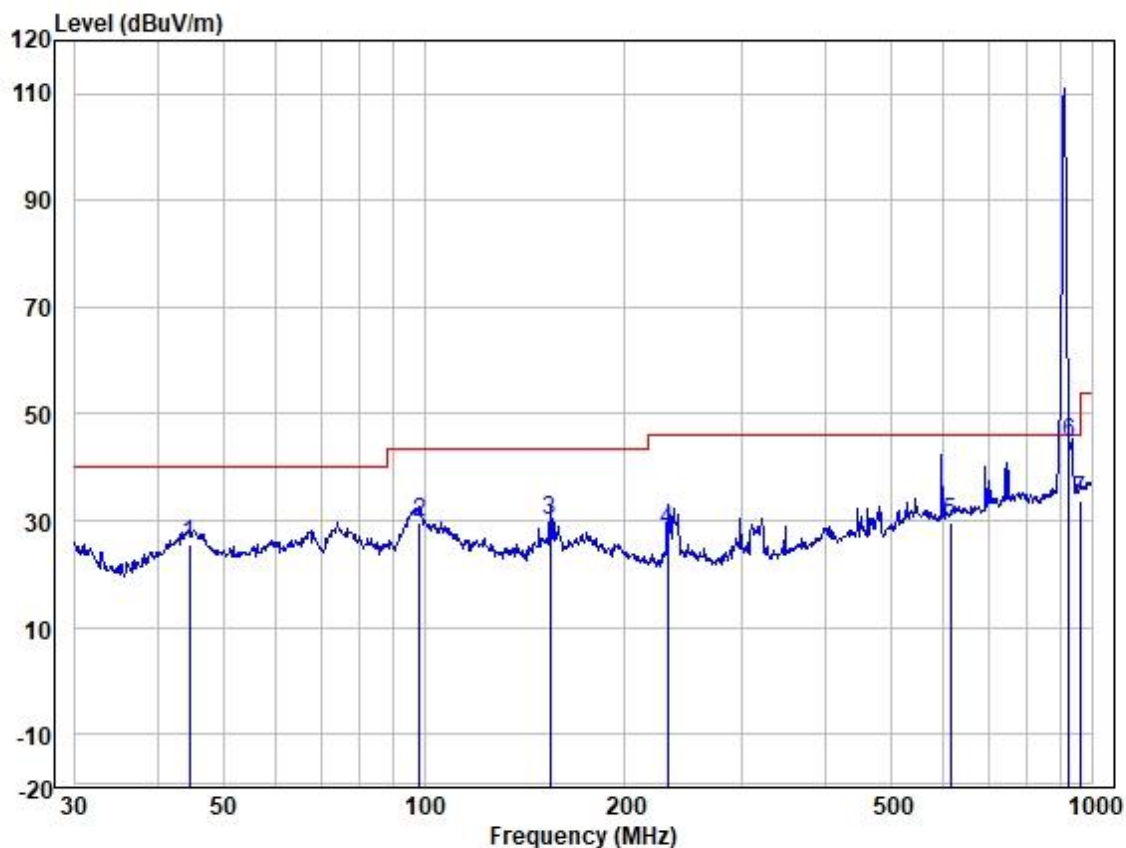
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:2MHz; Channel:High



Site : 966 Chamber
Job :
Model :
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	44.587	38.39	19.45	0.37	32.81	25.40	40.00	-14.60	VERTICAL	QP
2	98.487	47.42	14.41	0.54	32.80	29.57	43.52	-13.95	VERTICAL	QP
3	154.279	42.97	19.14	0.68	32.80	29.99	43.52	-13.53	VERTICAL	QP
4	231.718	43.51	16.45	0.83	32.80	27.99	46.02	-18.03	VERTICAL	QP
5	614.000	35.24	25.92	1.44	32.89	29.71	46.02	-16.31	VERTICAL	QP
6	925.000	44.49	29.62	1.77	31.46	44.42	46.02	-1.60	VERTICAL	Peak
7	960.000	33.26	29.74	1.82	30.98	33.84	46.02	-12.18	VERTICAL	QP

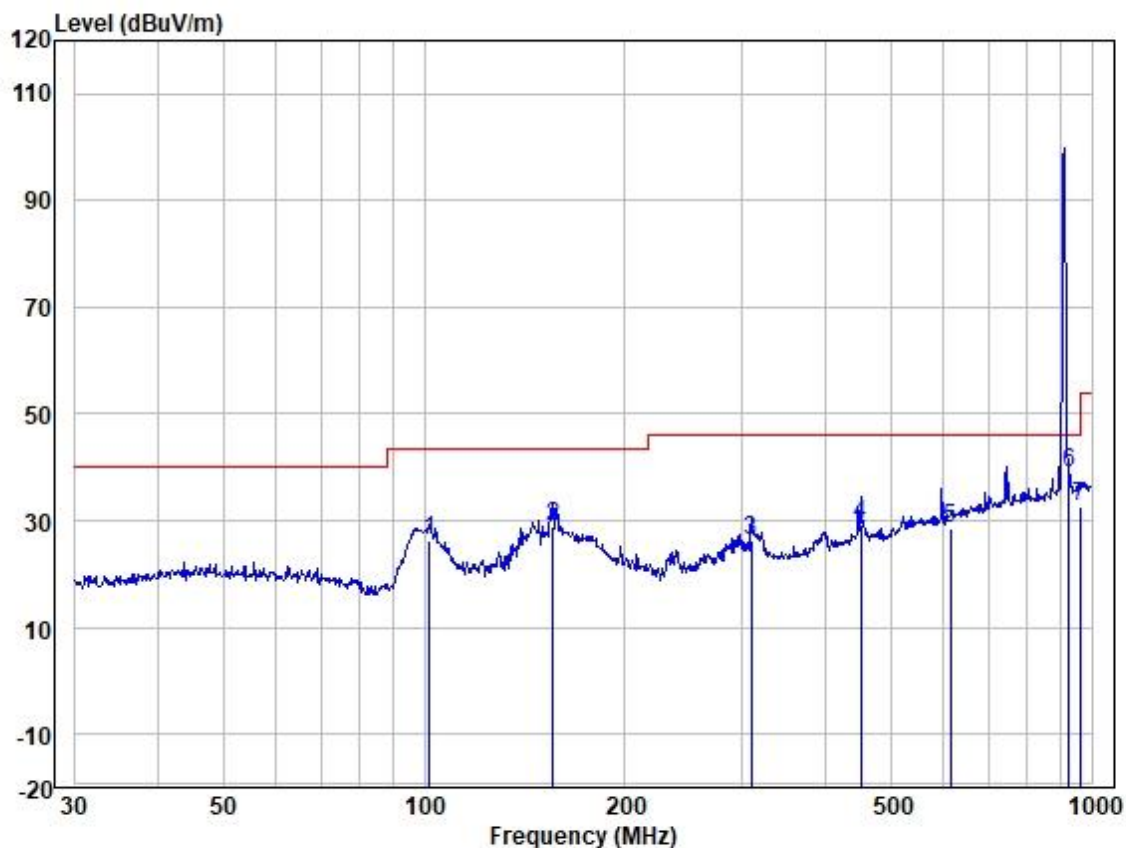
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:2MHz; Channel:High



Site : 966 Chamber
Job :
Model :
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	102.001	43.67	14.87	0.54	32.80	26.28	43.52	-17.24	HORIZONTAL	QP
2	155.910	41.81	19.17	0.69	32.80	28.87	43.52	-14.65	HORIZONTAL	QP
3	308.913	38.66	19.47	0.99	32.80	26.32	46.02	-19.70	HORIZONTAL	QP
4	451.135	38.34	22.75	1.23	32.85	29.47	46.02	-16.55	HORIZONTAL	QP
5	614.000	34.06	25.92	1.44	32.89	28.53	46.02	-17.49	HORIZONTAL	QP
6	925.000	39.00	29.62	1.77	31.46	38.93	46.02	-7.09	HORIZONTAL	Peak
7	960.000	32.12	29.74	1.82	30.98	32.70	46.02	-13.32	HORIZONTAL	QP

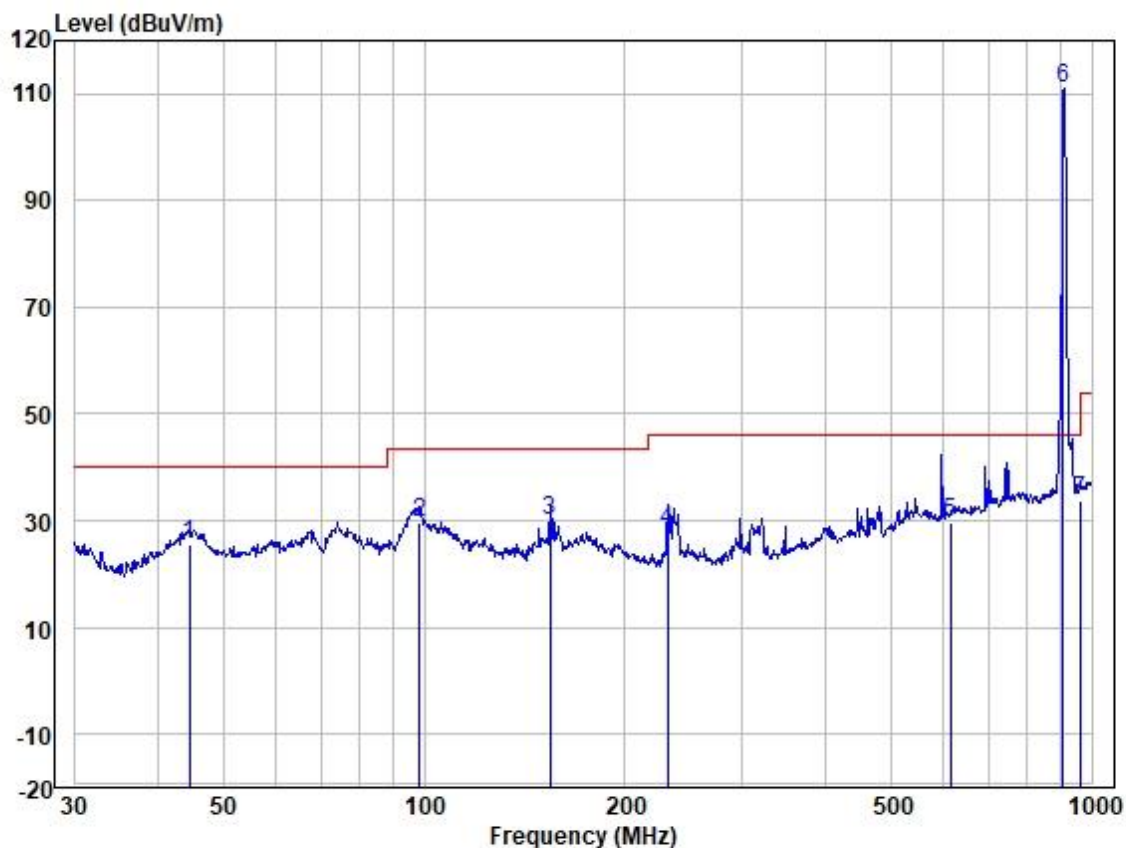
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ah; Bandwidth: 4MHz; Channel: Low



Site : 966 Chamber
Job :
Model :
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	44.587	38.39	19.45	0.37	32.81	25.40	40.00	-14.60	VERTICAL	QP
2	98.487	47.42	14.41	0.54	32.80	29.57	43.52	-13.95	VERTICAL	QP
3	154.279	42.97	19.14	0.68	32.80	29.99	43.52	-13.53	VERTICAL	QP
4	231.718	43.51	16.45	0.83	32.80	27.99	46.02	-18.03	VERTICAL	QP
5	614.000	35.24	25.92	1.44	32.89	29.71	46.02	-16.31	VERTICAL	QP
6	906.000	111.49	29.47	1.76	31.57	111.15	46.02	65.13	VERTICAL	Peak
7	960.000	33.26	29.74	1.82	30.98	33.84	46.02	-12.18	VERTICAL	QP

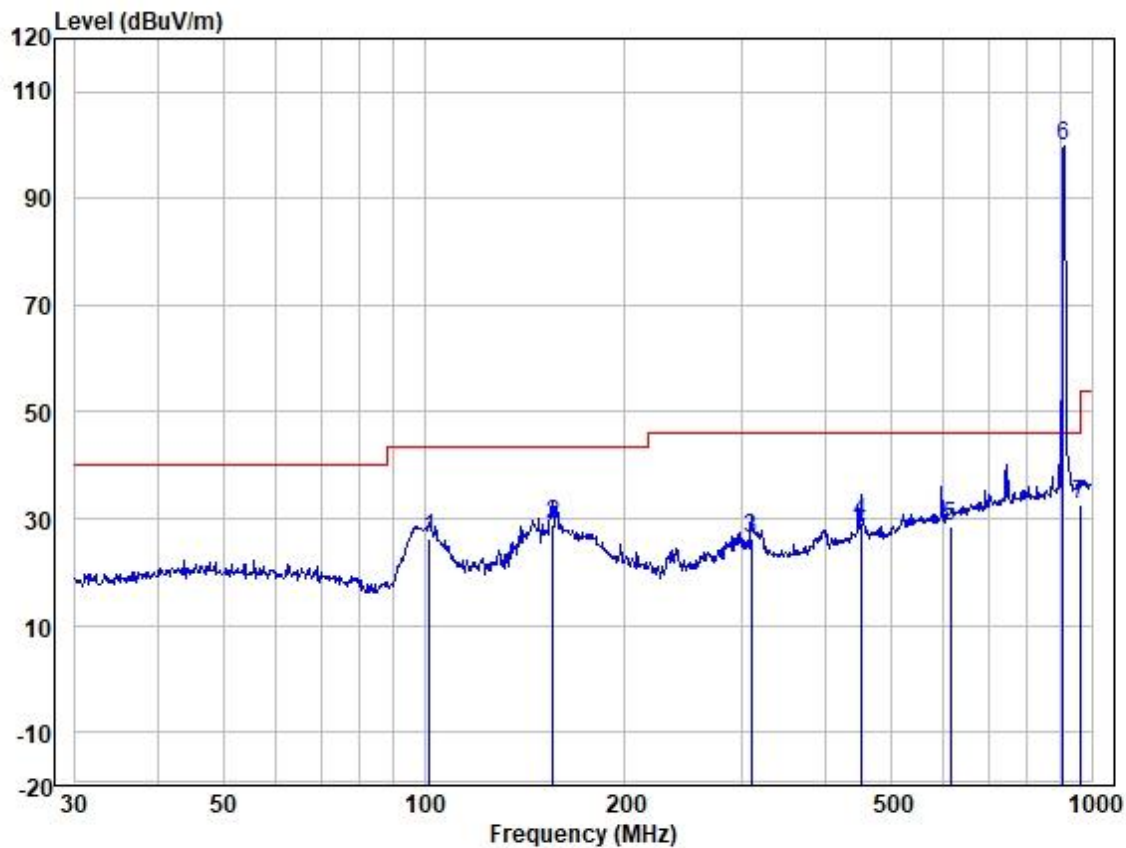
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:4MHz; Channel:Low



Site : 966 Chamber
Job :
Model :
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	102.001	43.67	14.87	0.54	32.80	26.28	43.52	-17.24	HORIZONTAL	QP
2	155.910	41.81	19.17	0.69	32.80	28.87	43.52	-14.65	HORIZONTAL	QP
3	308.913	38.66	19.47	0.99	32.80	26.32	46.02	-19.70	HORIZONTAL	QP
4	451.135	38.34	22.75	1.23	32.85	29.47	46.02	-16.55	HORIZONTAL	QP
5	614.000	34.06	25.92	1.44	32.89	28.53	46.02	-17.49	HORIZONTAL	QP
6	906.000	100.27	29.47	1.76	31.57	99.93	46.02	53.91	HORIZONTAL	Peak
7	960.000	32.12	29.74	1.82	30.98	32.70	46.02	-13.32	HORIZONTAL	QP

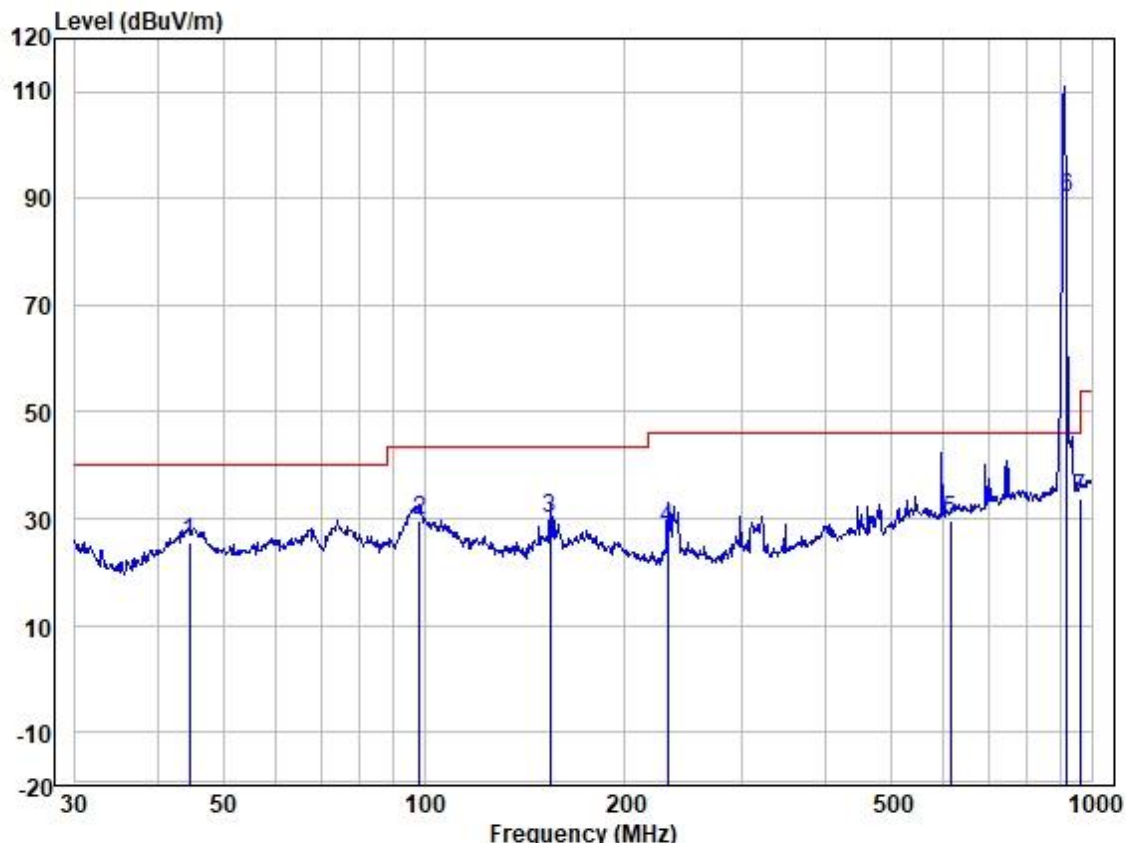
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:4MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
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	44.587	38.39	19.45	0.37	32.81	25.40	40.00	-14.60	VERTICAL	QP
2	98.487	47.42	14.41	0.54	32.80	29.57	43.52	-13.95	VERTICAL	QP
3	154.279	42.97	19.14	0.68	32.80	29.99	43.52	-13.53	VERTICAL	QP
4	231.718	43.51	16.45	0.83	32.80	27.99	46.02	-18.03	VERTICAL	QP
5	614.000	35.24	25.92	1.44	32.89	29.71	46.02	-16.31	VERTICAL	QP
6	916.000	90.49	29.50	1.77	31.52	90.24	46.02	44.22	VERTICAL	Peak
7	960.000	33.26	29.74	1.82	30.98	33.84	46.02	-12.18	VERTICAL	QP

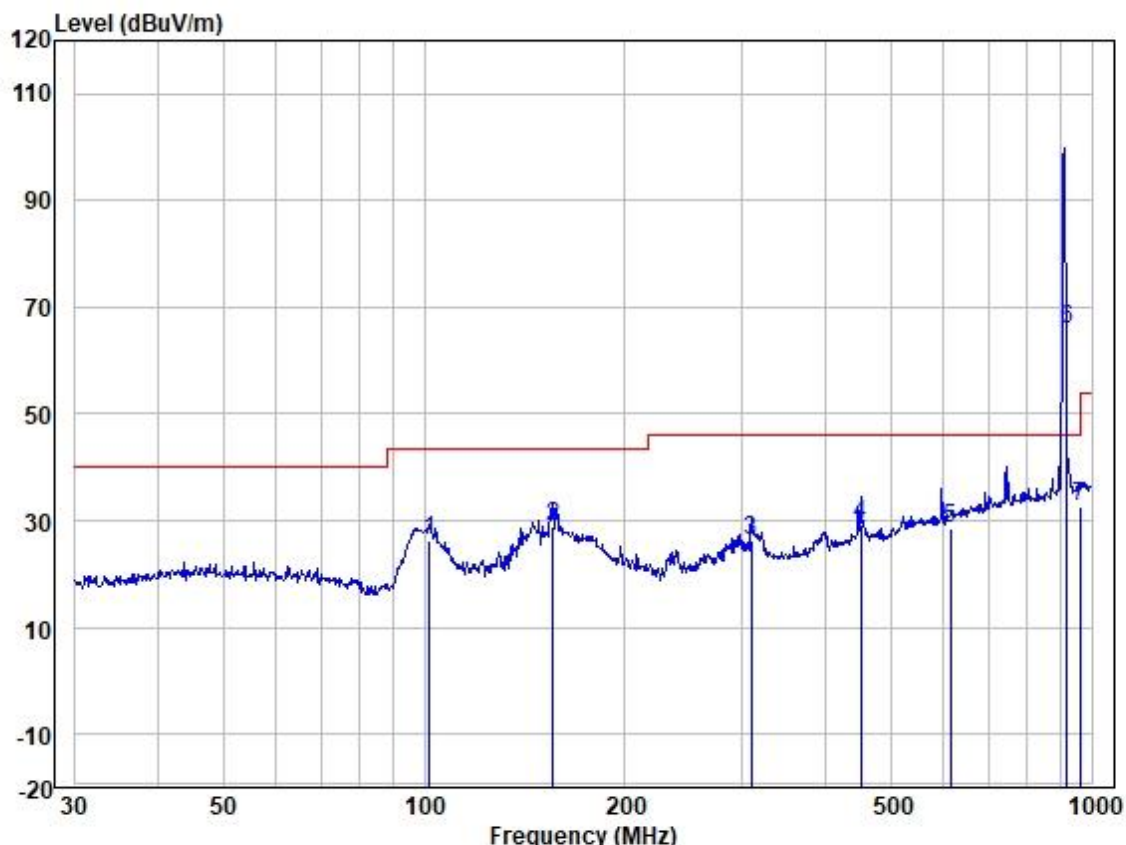
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:4MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
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	102.001	43.67	14.87	0.54	32.80	26.28	43.52	-17.24	HORIZONTAL	QP
2	155.910	41.81	19.17	0.69	32.80	28.87	43.52	-14.65	HORIZONTAL	QP
3	308.913	38.66	19.47	0.99	32.80	26.32	46.02	-19.70	HORIZONTAL	QP
4	451.135	38.34	22.75	1.23	32.85	29.47	46.02	-16.55	HORIZONTAL	QP
5	614.000	34.06	25.92	1.44	32.89	28.53	46.02	-17.49	HORIZONTAL	QP
6	916.000	66.26	29.50	1.77	31.52	66.01	46.02	19.99	HORIZONTAL	Peak
7	960.000	32.12	29.74	1.82	30.98	32.70	46.02	-13.32	HORIZONTAL	QP

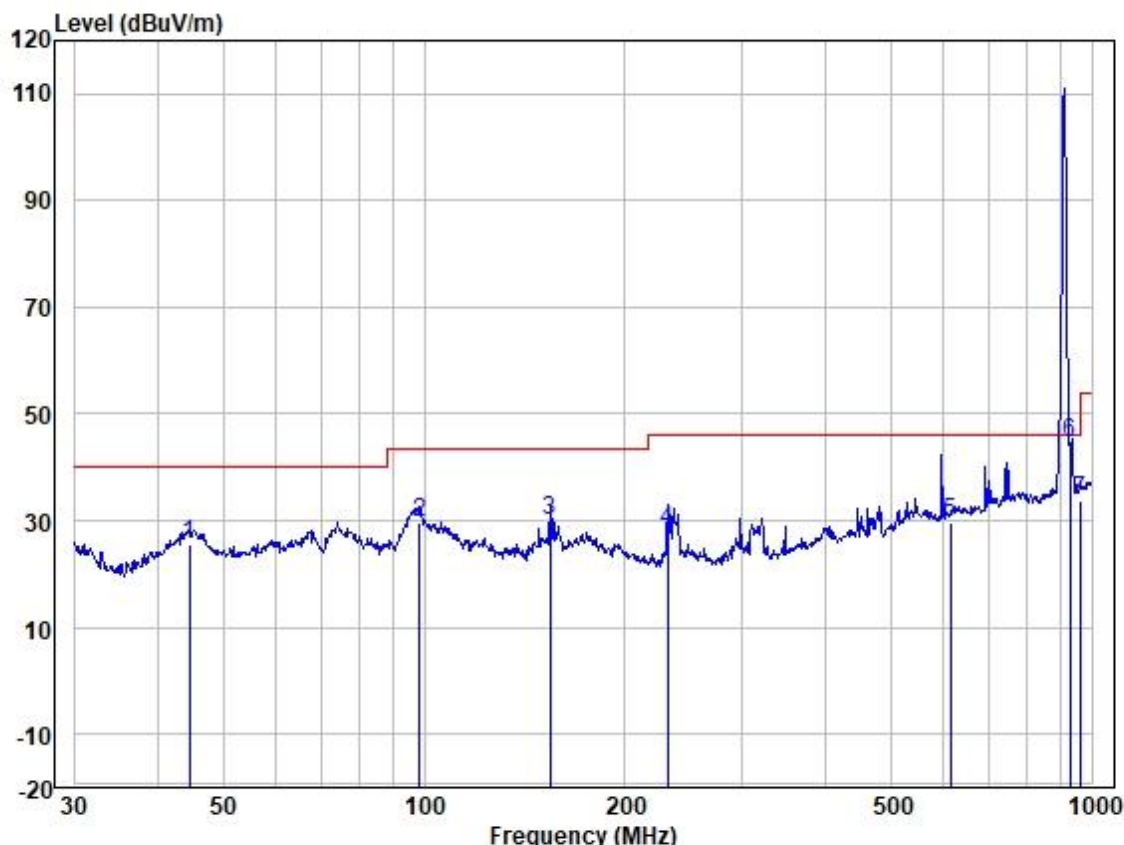
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:4MHz; Channel:High



Site : 966 Chamber
Job :
Model :
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	44.587	38.39	19.45	0.37	32.81	25.40	40.00	-14.60	VERTICAL	QP
2	98.487	47.42	14.41	0.54	32.80	29.57	43.52	-13.95	VERTICAL	QP
3	154.279	42.97	19.14	0.68	32.80	29.99	43.52	-13.53	VERTICAL	QP
4	231.718	43.51	16.45	0.83	32.80	27.99	46.02	-18.03	VERTICAL	QP
5	614.000	35.24	25.92	1.44	32.89	29.71	46.02	-16.31	VERTICAL	QP
6	926.000	44.50	29.65	1.77	31.46	44.46	46.02	-1.56	VERTICAL	Peak
7	960.000	33.26	29.74	1.82	30.98	33.84	46.02	-12.18	VERTICAL	QP

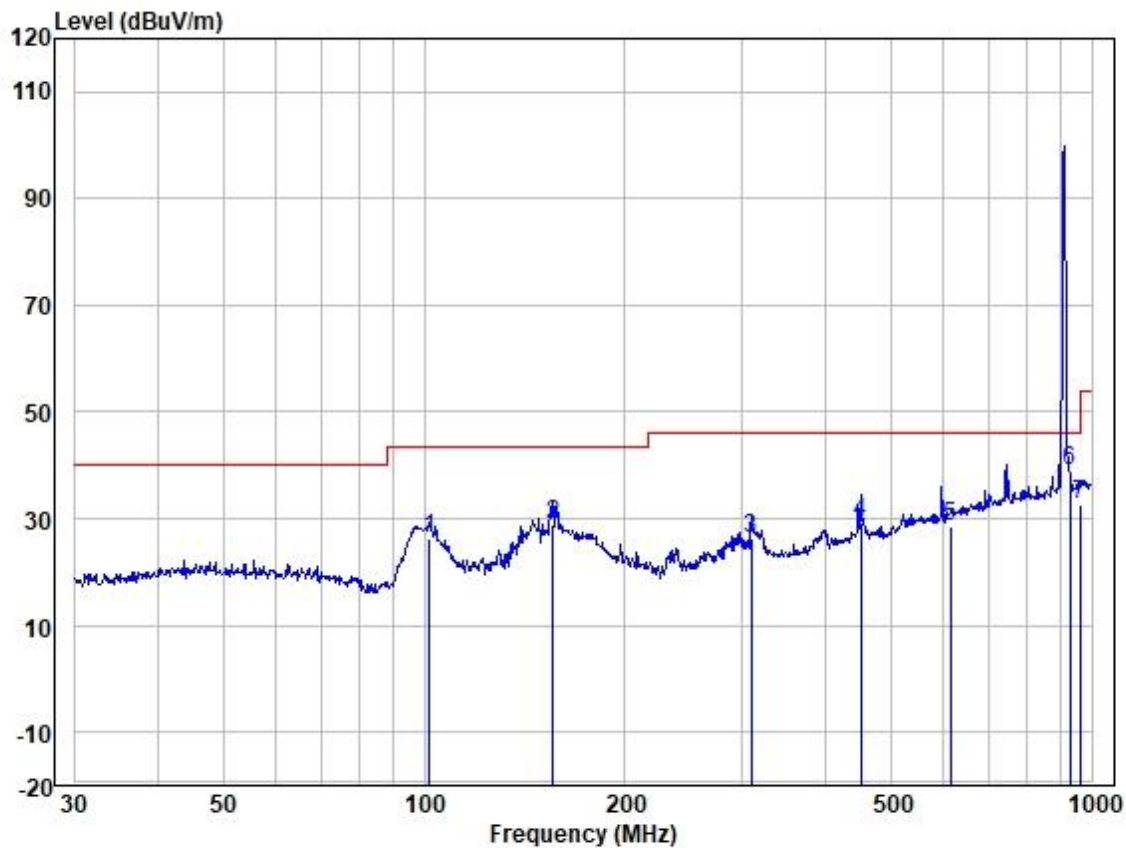
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:4MHz; Channel:High



Site : 966 Chamber
Job :
Model :
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	102.001	43.67	14.87	0.54	32.80	26.28	43.52	-17.24	HORIZONTAL	QP
2	155.910	41.81	19.17	0.69	32.80	28.87	43.52	-14.65	HORIZONTAL	QP
3	308.913	38.66	19.47	0.99	32.80	26.32	46.02	-19.70	HORIZONTAL	QP
4	451.135	38.34	22.75	1.23	32.85	29.47	46.02	-16.55	HORIZONTAL	QP
5	614.000	34.06	25.92	1.44	32.89	28.53	46.02	-17.49	HORIZONTAL	QP
6	926.000	39.00	29.65	1.77	31.46	38.96	46.02	-7.06	HORIZONTAL	Peak
7	960.000	32.12	29.74	1.82	30.98	32.70	46.02	-13.32	HORIZONTAL	QP

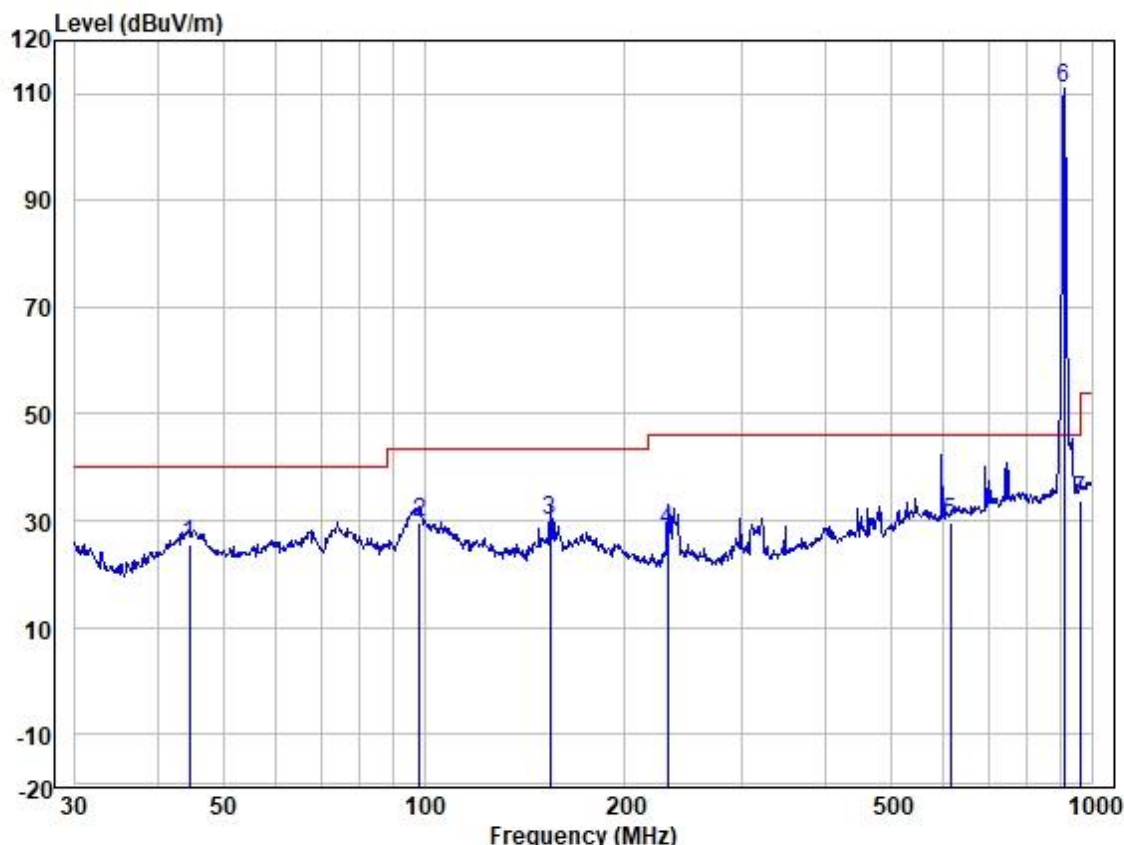
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:8MHz; Channel:Low



Site : 966 Chamber
Job :
Model :
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	44.587	38.39	19.45	0.37	32.81	25.40	40.00	-14.60	VERTICAL	QP
2	98.487	47.42	14.41	0.54	32.80	29.57	43.52	-13.95	VERTICAL	QP
3	154.279	42.97	19.14	0.68	32.80	29.99	43.52	-13.53	VERTICAL	QP
4	231.718	43.51	16.45	0.83	32.80	27.99	46.02	-18.03	VERTICAL	QP
5	614.000	35.24	25.92	1.44	32.89	29.71	46.02	-16.31	VERTICAL	QP
6	908.000	111.50	29.49	1.76	31.56	111.19	46.02	65.17	VERTICAL	Peak
7	960.000	33.26	29.74	1.82	30.98	33.84	46.02	-12.18	VERTICAL	QP

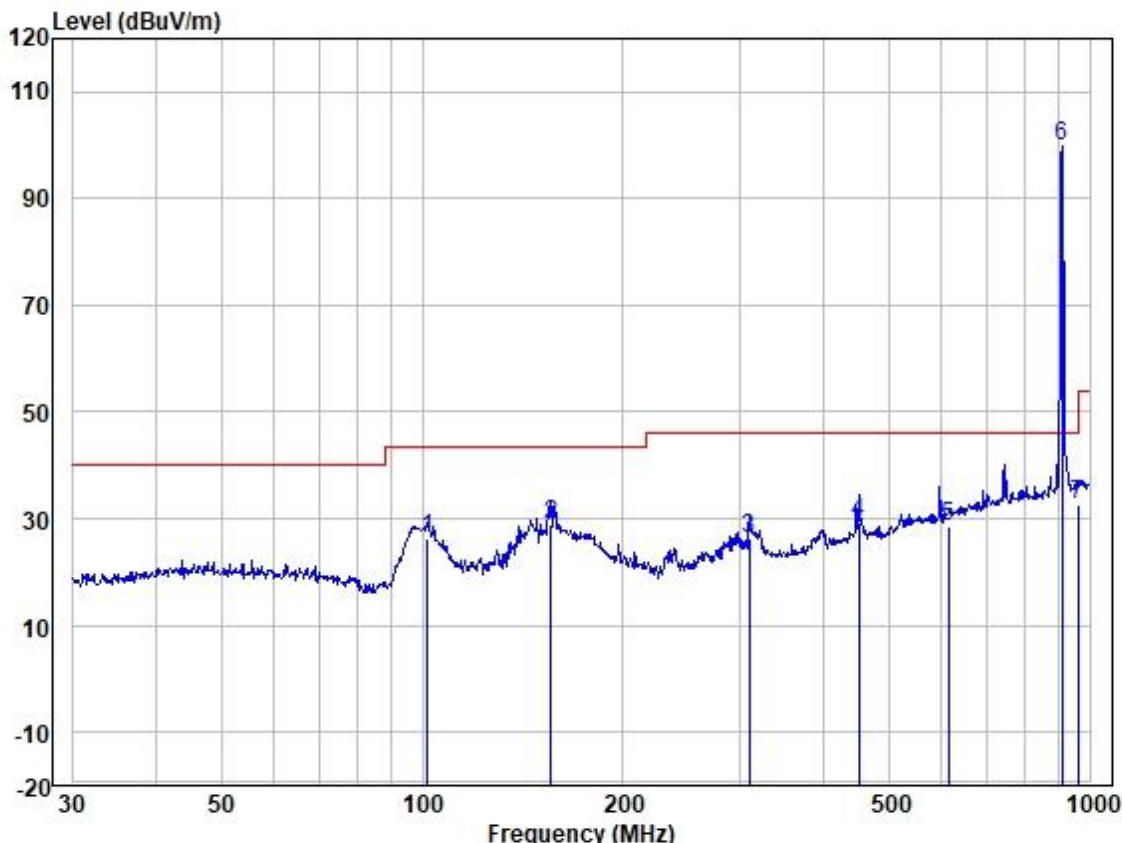
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:8MHz; Channel:Low



Site : 966 Chamber
Job :
Model :
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	102.001	43.67	14.87	0.54	32.80	26.28	43.52	-17.24	HORIZONTAL	QP
2	155.910	41.81	19.17	0.69	32.80	28.87	43.52	-14.65	HORIZONTAL	QP
3	308.913	38.66	19.47	0.99	32.80	26.32	46.02	-19.70	HORIZONTAL	QP
4	451.135	38.34	22.75	1.23	32.85	29.47	46.02	-16.55	HORIZONTAL	QP
5	614.000	34.06	25.92	1.44	32.89	28.53	46.02	-17.49	HORIZONTAL	QP
6	908.000	100.27	29.49	1.76	31.56	99.96	46.02	53.94	HORIZONTAL	Peak
7	960.000	32.12	29.74	1.82	30.98	32.70	46.02	-13.32	HORIZONTAL	QP

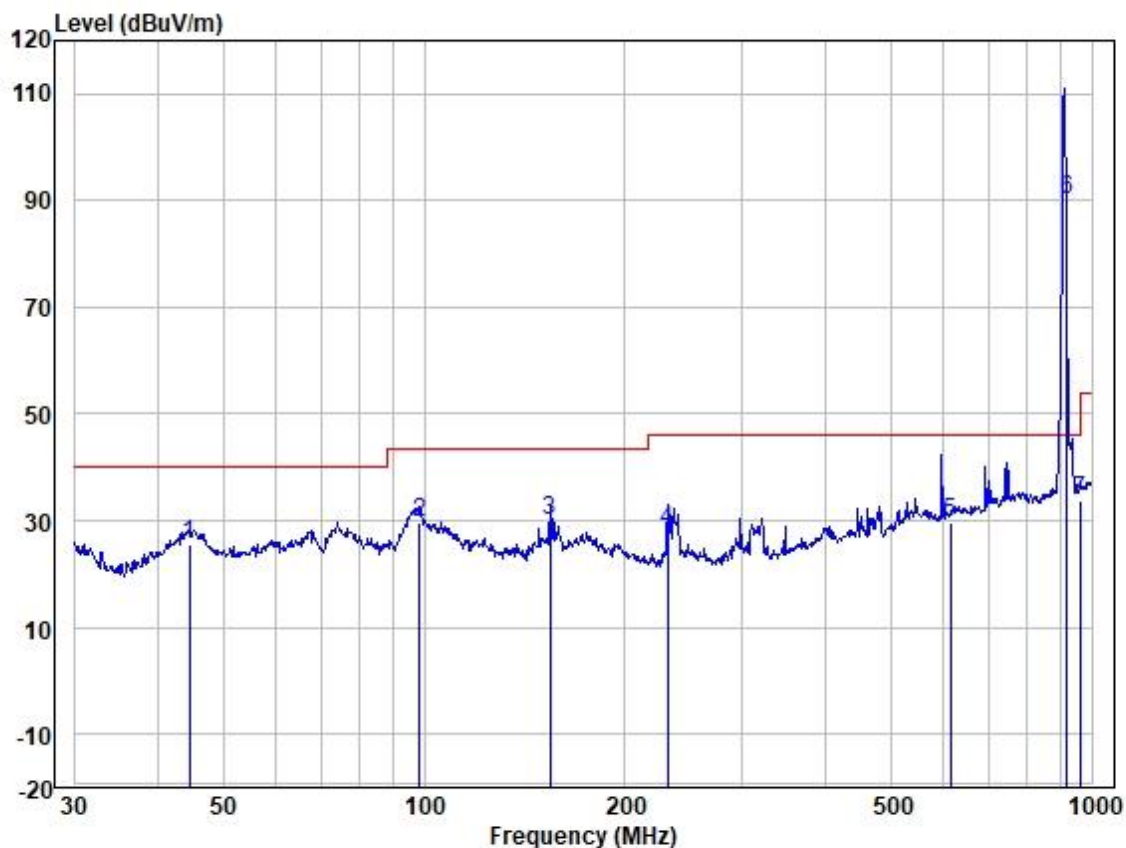
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:8MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
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	44.587	38.39	19.45	0.37	32.81	25.40	40.00	-14.60	VERTICAL	QP
2	98.487	47.42	14.41	0.54	32.80	29.57	43.52	-13.95	VERTICAL	QP
3	154.279	42.97	19.14	0.68	32.80	29.99	43.52	-13.53	VERTICAL	QP
4	231.718	43.51	16.45	0.83	32.80	27.99	46.02	-18.03	VERTICAL	QP
5	614.000	35.24	25.92	1.44	32.89	29.71	46.02	-16.31	VERTICAL	QP
6	918.000	90.49	29.49	1.77	31.51	90.24	46.02	44.22	VERTICAL	Peak
7	960.000	33.26	29.74	1.82	30.98	33.84	46.02	-12.18	VERTICAL	QP

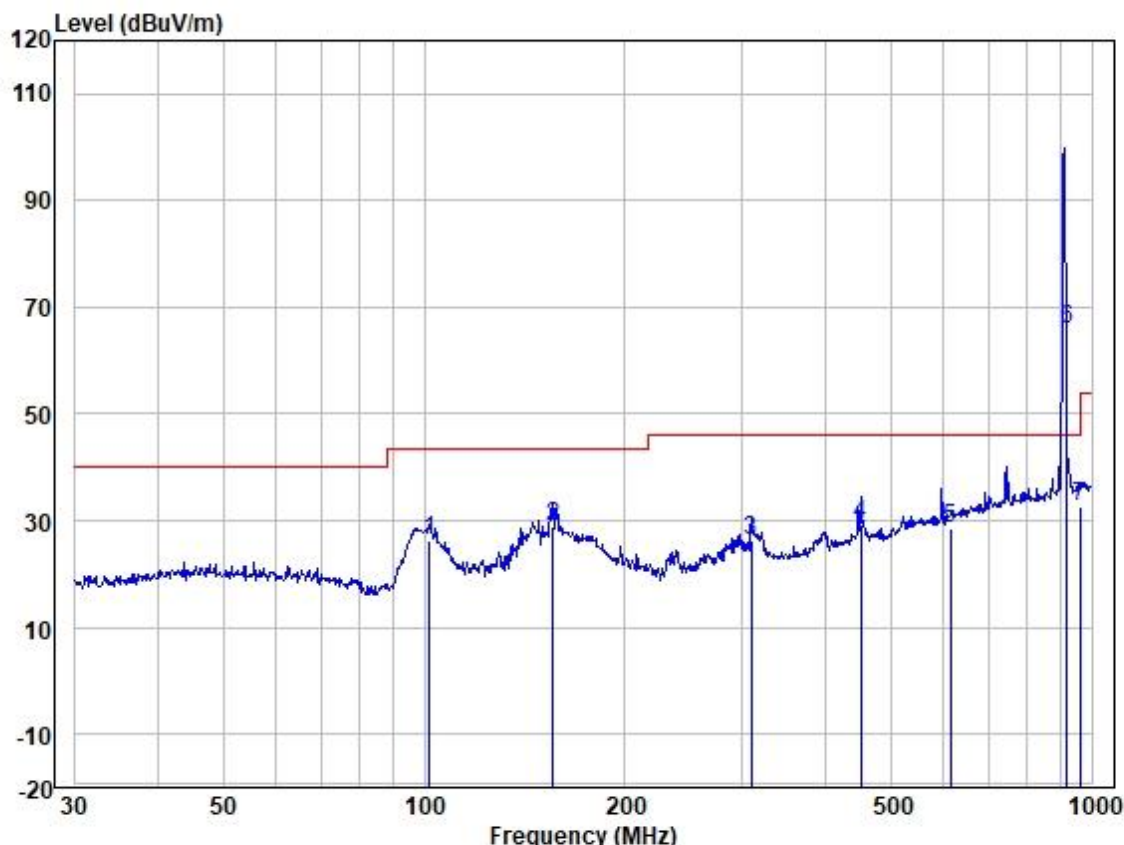
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:8MHz; Channel:middle



Site : 966 Chamber
Job :
Model :
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	102.001	43.67	14.87	0.54	32.80	26.28	43.52	-17.24	HORIZONTAL	QP
2	155.910	41.81	19.17	0.69	32.80	28.87	43.52	-14.65	HORIZONTAL	QP
3	308.913	38.66	19.47	0.99	32.80	26.32	46.02	-19.70	HORIZONTAL	QP
4	451.135	38.34	22.75	1.23	32.85	29.47	46.02	-16.55	HORIZONTAL	QP
5	614.000	34.06	25.92	1.44	32.89	28.53	46.02	-17.49	HORIZONTAL	QP
6	918.000	66.27	29.49	1.77	31.51	66.02	46.02	20.00	HORIZONTAL	Peak
7	960.000	32.12	29.74	1.82	30.98	32.70	46.02	-13.32	HORIZONTAL	QP

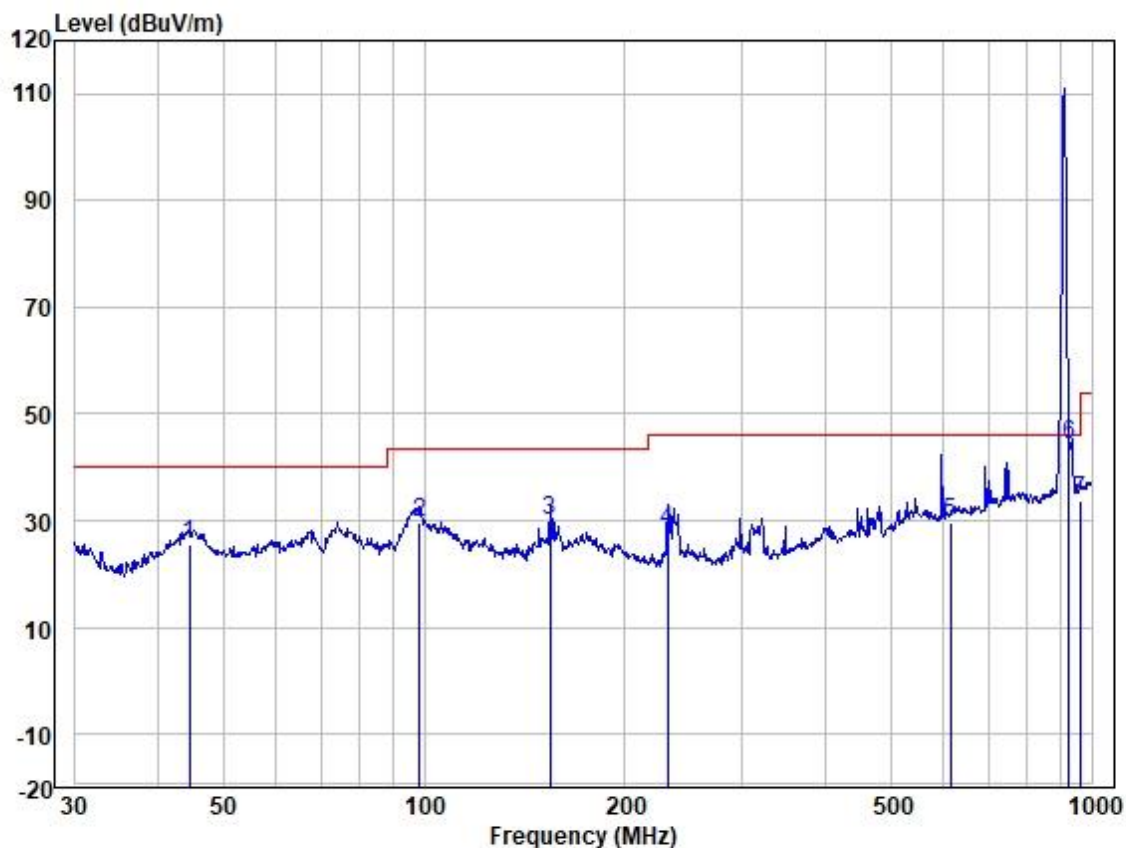
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:8MHz; Channel:High



Site : 966 Chamber
Job :
Model :
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	44.587	38.39	19.45	0.37	32.81	25.40	40.00	-14.60	VERTICAL	QP
2	98.487	47.42	14.41	0.54	32.80	29.57	43.52	-13.95	VERTICAL	QP
3	154.279	42.97	19.14	0.68	32.80	29.99	43.52	-13.53	VERTICAL	QP
4	231.718	43.51	16.45	0.83	32.80	27.99	46.02	-18.03	VERTICAL	QP
5	614.000	35.24	25.92	1.44	32.89	29.71	46.02	-16.31	VERTICAL	QP
6	924.000	44.50	29.59	1.77	31.47	44.39	46.02	-1.63	VERTICAL	Peak
7	960.000	33.26	29.74	1.82	30.98	33.84	46.02	-12.18	VERTICAL	QP

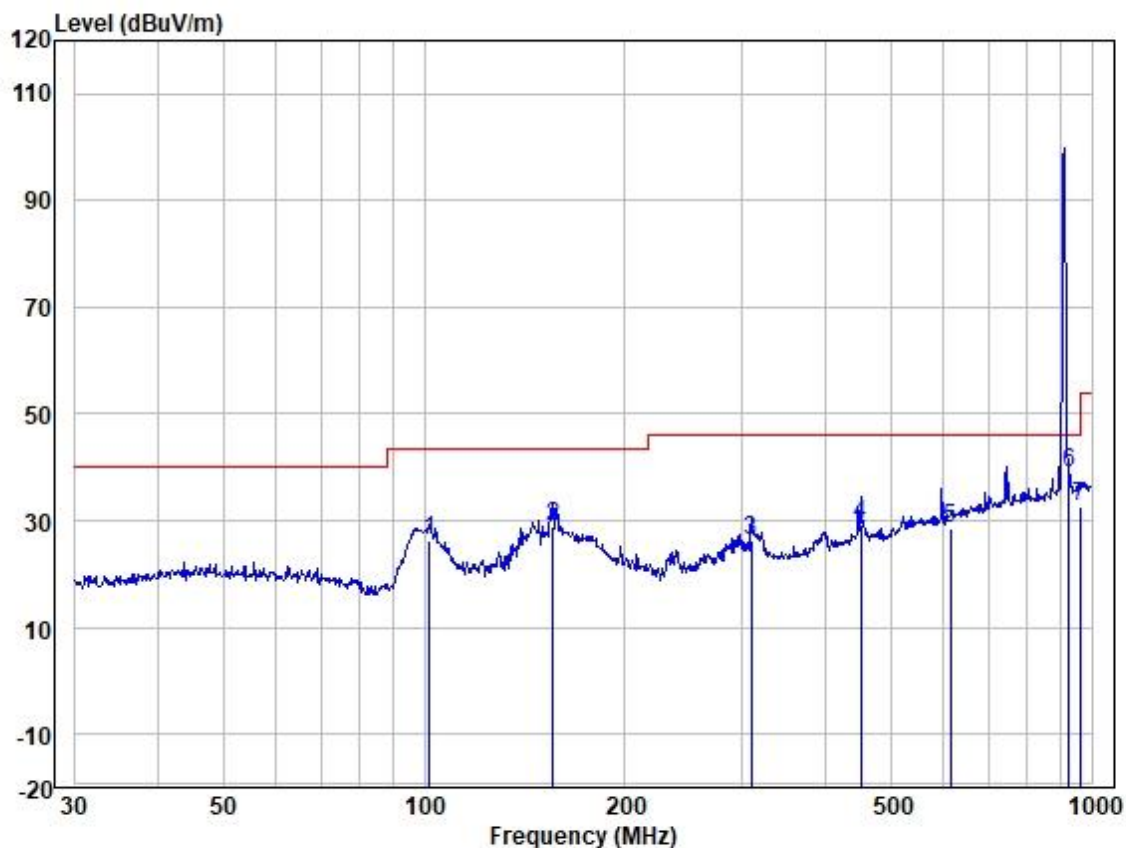
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:8MHz; Channel:High



Site : 966 Chamber
Job :
Model :
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	102.001	43.67	14.87	0.54	32.80	26.28	43.52	-17.24	HORIZONTAL	QP
2	155.910	41.81	19.17	0.69	32.80	28.87	43.52	-14.65	HORIZONTAL	QP
3	308.913	38.66	19.47	0.99	32.80	26.32	46.02	-19.70	HORIZONTAL	QP
4	451.135	38.34	22.75	1.23	32.85	29.47	46.02	-16.55	HORIZONTAL	QP
5	614.000	34.06	25.92	1.44	32.89	28.53	46.02	-17.49	HORIZONTAL	QP
6	924.000	39.00	29.59	1.77	31.47	38.89	46.02	-7.13	HORIZONTAL	Peak
7	960.000	32.12	29.74	1.82	30.98	32.70	46.02	-13.32	HORIZONTAL	QP

The point 6 is the fundamental of RF frequency of the EUT which was evaluated in section 7.2.



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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: 24.9 °C

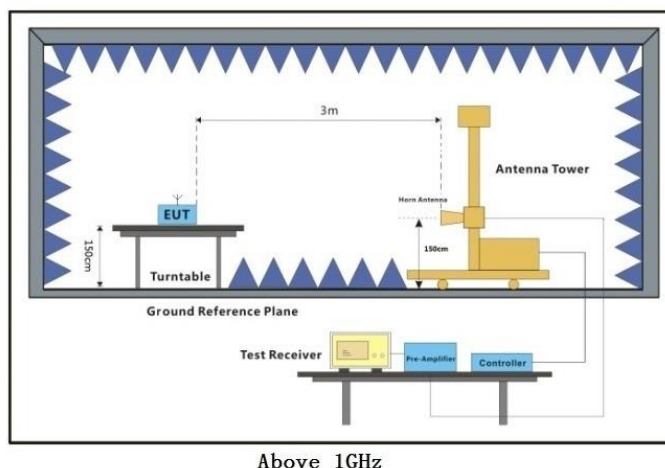
Humidity: 58.8 % RH

Atmospheric Pressure: 1016 mbar

7.9.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_Keep the EUT in continuously transmitting mode with modulation.

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:

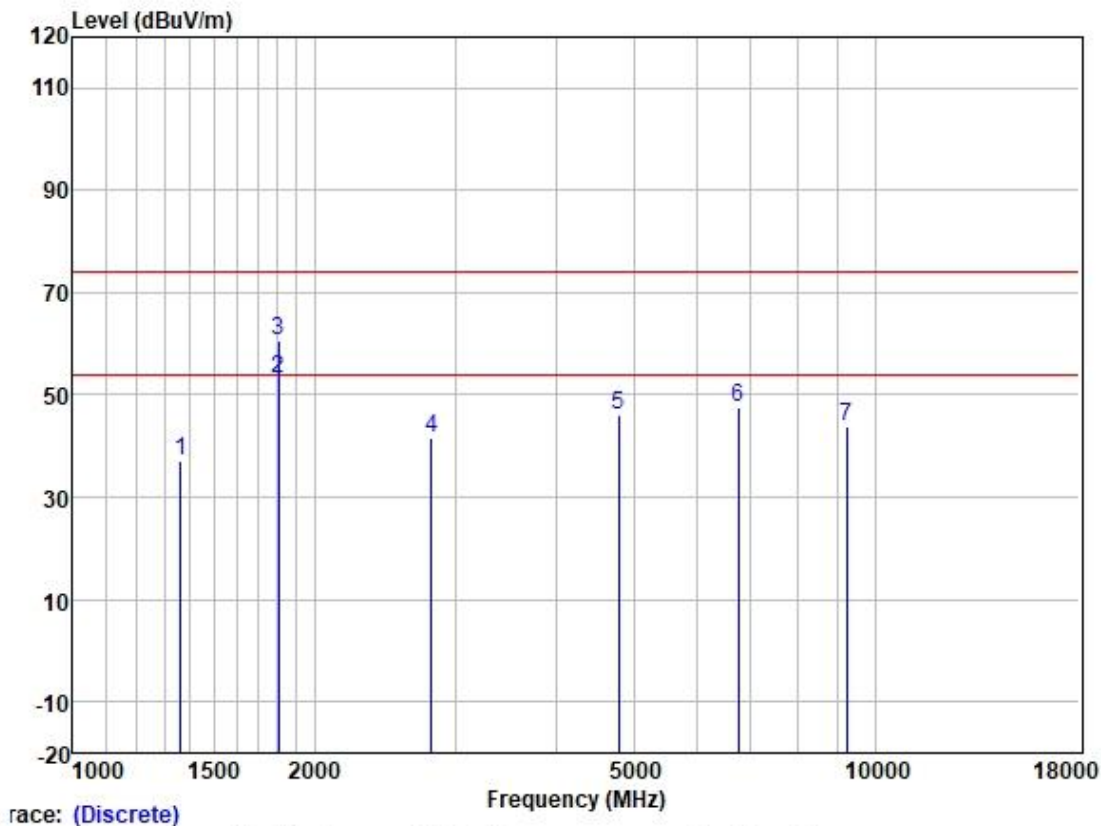
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:2MHz; Channel:Low



Trace: (Discrete)

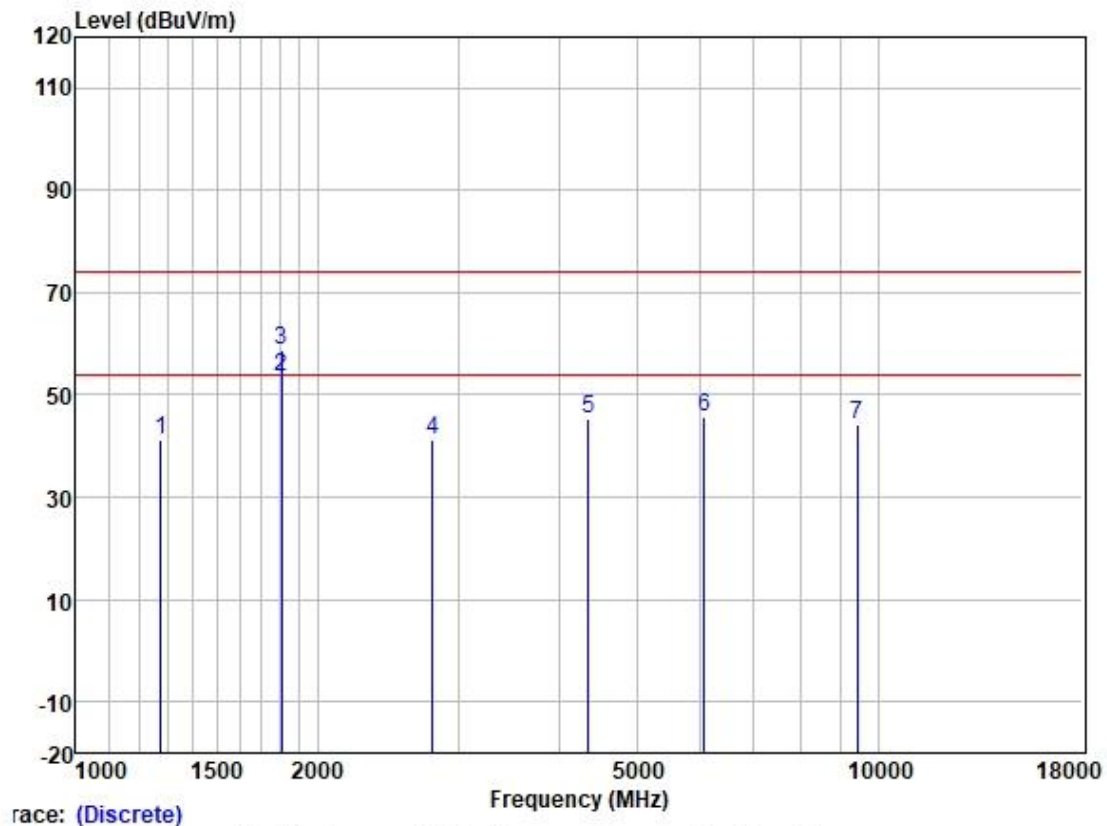
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1362.430	48.17	24.17	2.75	37.97	37.12	74.00	-36.88	VERTICAL	Peak
2	1803.332	61.69	25.88	3.68	37.91	53.34	54.00	-0.66	VERTICAL	Average
3	1803.332	68.88	25.88	3.68	37.91	60.53	74.00	-13.47	VERTICAL	Peak
4	2798.189	47.68	28.44	3.14	37.53	41.73	74.00	-32.27	VERTICAL	Peak
5	4790.245	43.41	34.16	5.45	36.86	46.16	74.00	-27.84	VERTICAL	Peak
6	6756.708	43.64	34.56	6.32	37.06	47.46	74.00	-26.54	VERTICAL	Peak
7	9205.540	35.54	37.97	7.54	37.06	43.99	74.00	-30.01	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:2MHz; Channel:Low



Trace: (Discrete)

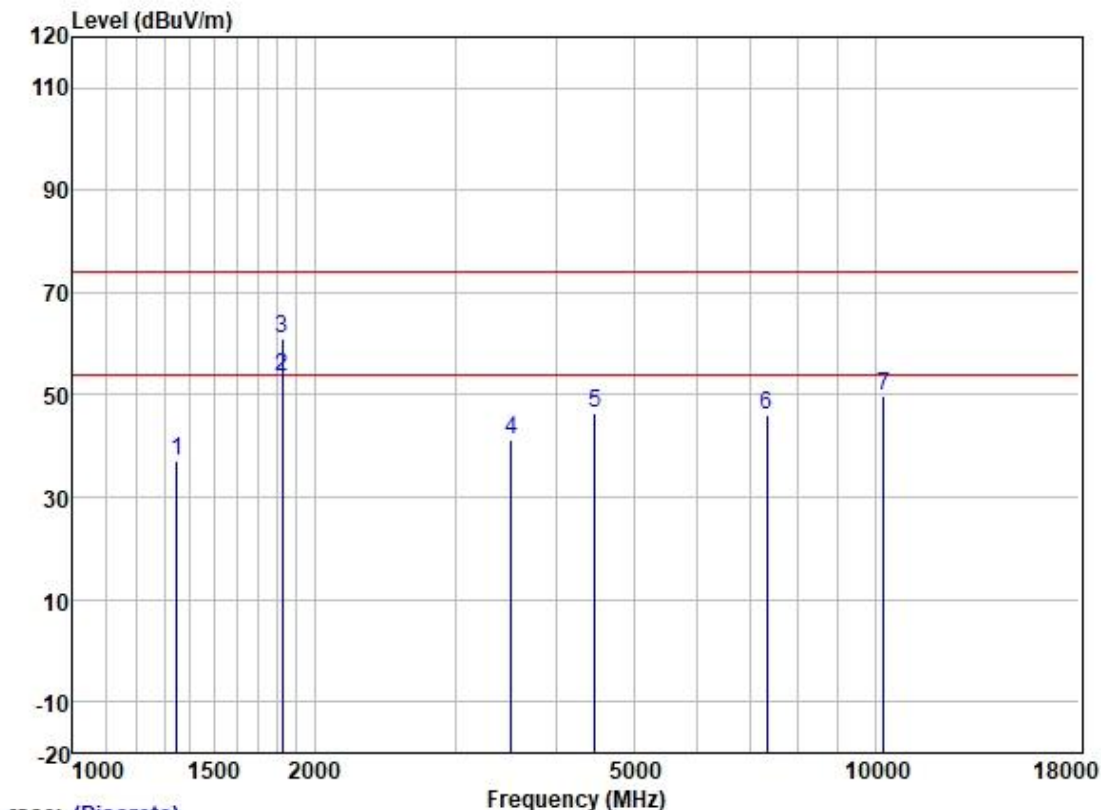
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1274.802	52.70	23.85	2.76	37.98	41.33	74.00	-32.67	HORIZONTAL	Peak
2	1803.332	62.40	25.88	3.24	37.91	53.61	54.00	-0.39	HORIZONTAL	Average
3	1803.332	67.53	25.88	3.24	37.91	58.74	74.00	-15.26	HORIZONTAL	Peak
4	2782.060	46.31	28.41	4.14	37.55	41.31	74.00	-32.69	HORIZONTAL	Peak
5	4354.454	43.89	33.43	4.80	36.82	45.30	74.00	-28.70	HORIZONTAL	Peak
6	6071.417	43.91	32.82	5.93	37.00	45.66	74.00	-28.34	HORIZONTAL	Peak
7	9420.880	35.03	38.47	7.58	37.04	44.04	74.00	-29.96	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:2MHz; Channel:middle



Trace: (Discrete)

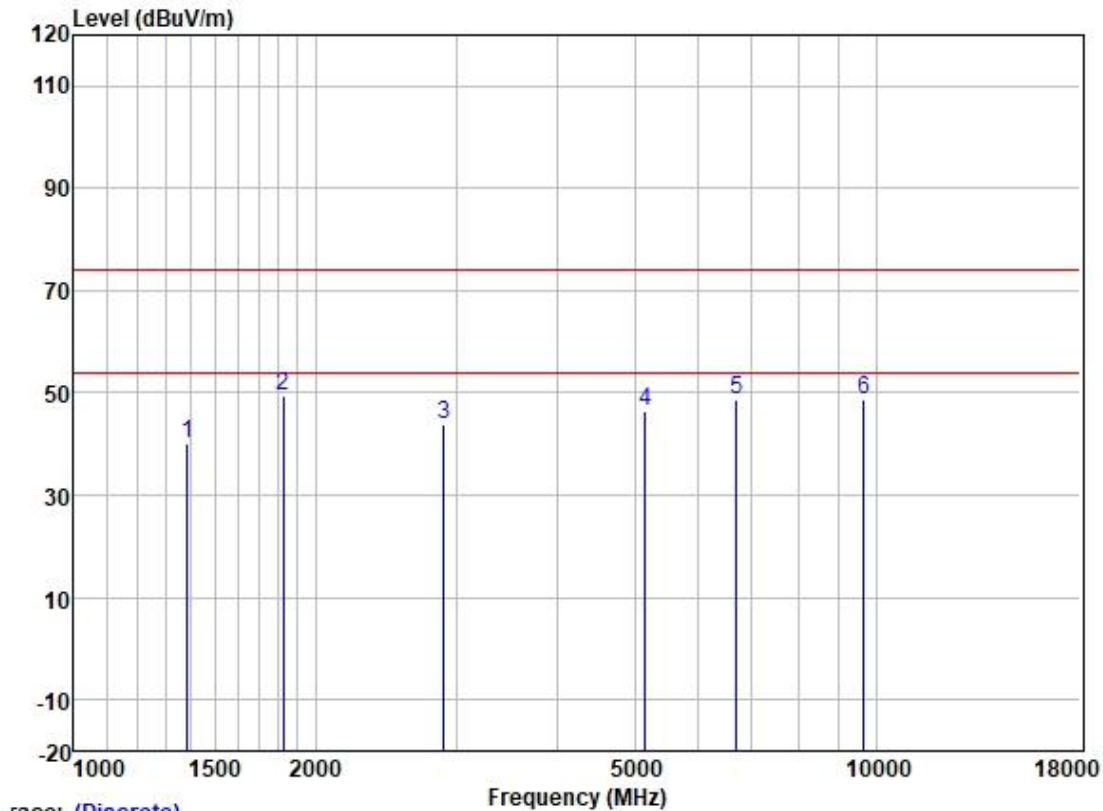
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1346.769	48.02	24.13	2.85	37.97	37.03	74.00	-36.97	VERTICAL	Peak
2	1824.302	62.14	25.97	3.25	37.91	53.45	54.00	-0.55	VERTICAL	Average
3	1824.302	69.62	25.97	3.25	37.91	60.93	74.00	-13.07	VERTICAL	Peak
4	3515.957	44.49	29.07	4.65	36.96	41.25	74.00	-32.75	VERTICAL	Peak
5	4469.214	44.30	34.06	4.78	36.83	46.31	74.00	-27.69	VERTICAL	Peak
6	7326.267	40.28	36.07	6.81	37.15	46.01	74.00	-27.99	VERTICAL	Peak
7	10244.580	39.75	39.37	7.71	36.99	49.84	74.00	-24.16	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:2MHz; Channel:middle



Trace: (Discrete)

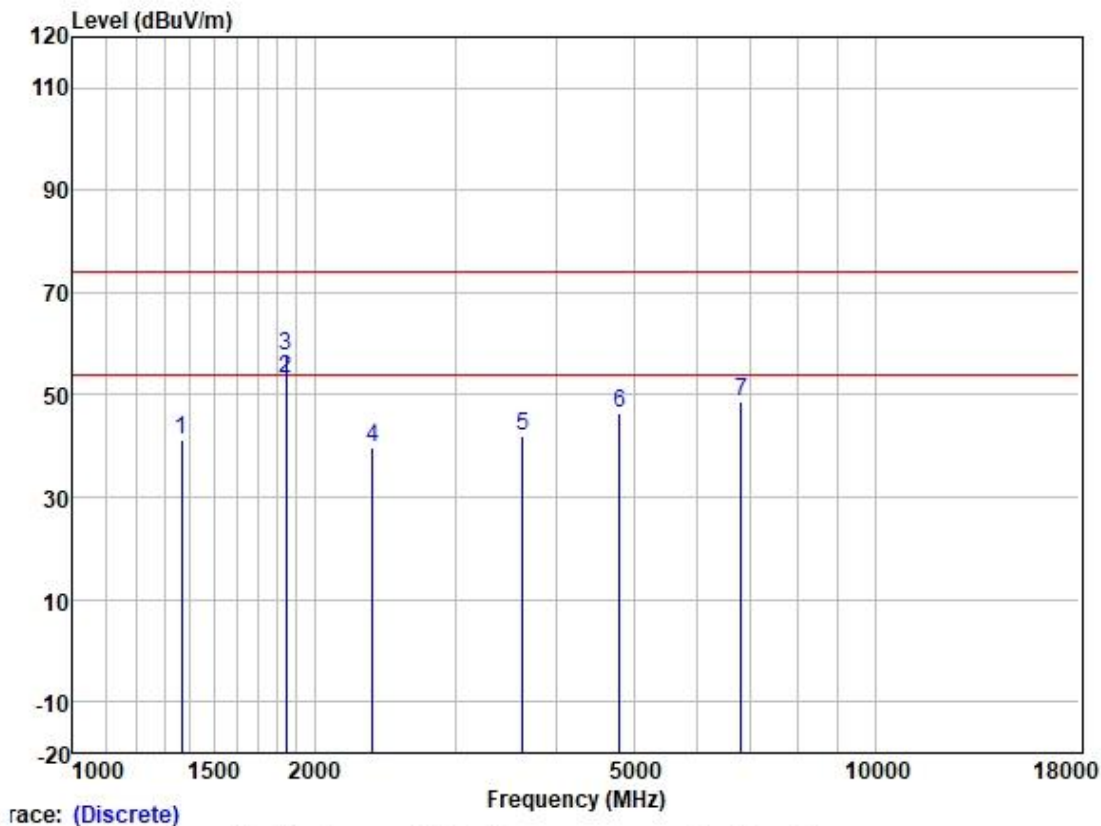
	Freq	ReadAntenna Level	Cable Factor	Preamplifier Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1386.264	51.07	24.23	2.88	37.97	40.21	74.00	-33.79	HORIZONTAL	Peak
2	1824.302	57.97	25.97	3.25	37.91	49.28	74.00	-24.72	HORIZONTAL	Peak
3	2888.584	48.63	28.58	4.23	37.47	43.97	74.00	-30.03	HORIZONTAL	Peak
4	5149.197	44.34	33.79	5.38	36.93	46.58	74.00	-27.42	HORIZONTAL	Peak
5	6698.373	44.69	34.35	6.84	37.05	48.83	74.00	-25.17	HORIZONTAL	Peak
6	9641.257	39.43	38.70	7.65	37.02	48.76	74.00	-25.24	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:2MHz; Channel:High



Trace: (Discrete)

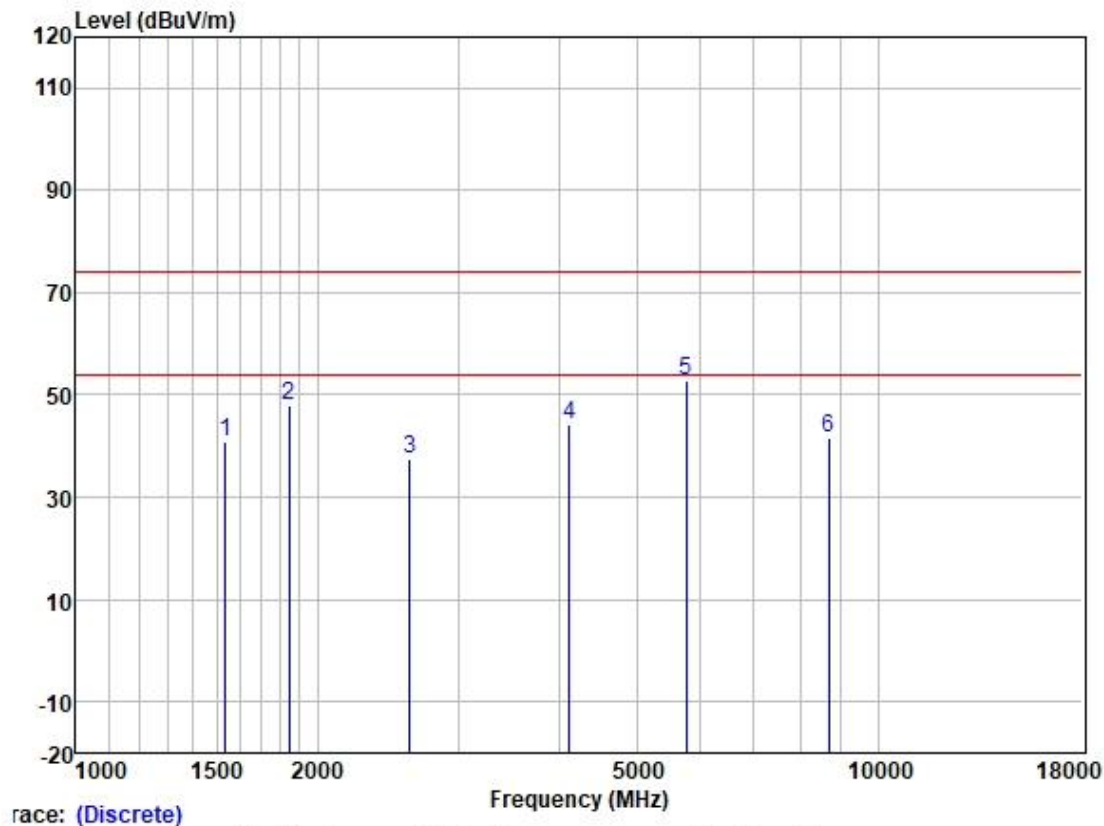
	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1366.374	52.12	24.18	2.87	37.97	41.20	74.00	-32.80	VERTICAL	Peak
2	1845.516	61.85	26.04	3.27	37.91	53.25	54.00	-0.75	VERTICAL	Average
3	1845.516	66.26	26.04	3.27	37.91	57.66	74.00	-16.34	VERTICAL	Peak
4	2366.308	46.25	27.64	3.75	37.77	39.87	74.00	-34.13	VERTICAL	Peak
5	3640.045	44.84	29.40	4.70	36.91	42.03	74.00	-31.97	VERTICAL	Peak
6	4804.110	43.97	34.16	5.15	36.86	46.42	74.00	-27.58	VERTICAL	Peak
7	6815.551	44.12	34.74	6.99	37.06	48.79	74.00	-25.21	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:2MHz; Channel:High



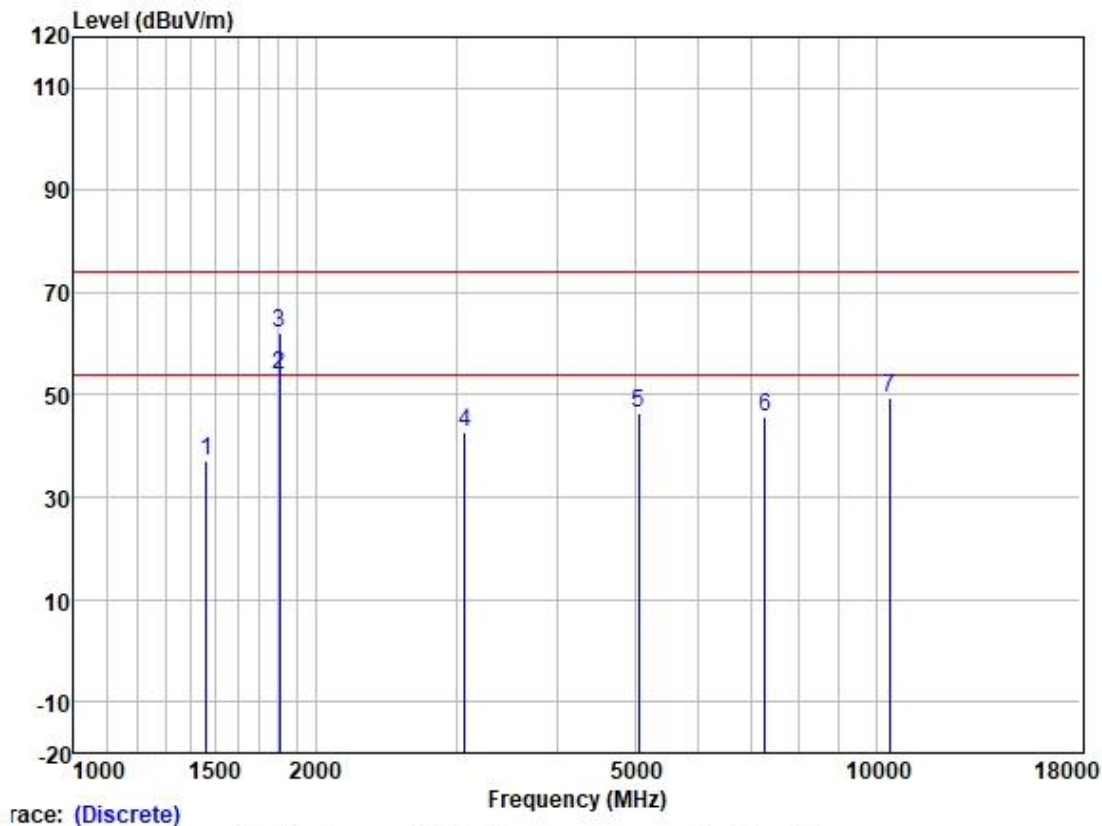
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1538.281	51.32	24.52	2.95	37.95	40.84	74.00	-33.16	HORIZONTAL	Peak
2	1845.516	55.91	26.04	4.00	37.91	48.04	74.00	-25.96	HORIZONTAL	Peak
3	2610.661	44.70	28.00	2.38	37.67	37.41	74.00	-36.59	HORIZONTAL	Peak
4	4121.768	44.49	31.27	5.24	36.81	44.19	74.00	-29.81	HORIZONTAL	Peak
5	5763.617	51.29	32.66	5.69	36.99	52.65	74.00	-21.35	HORIZONTAL	Peak
6	8688.480	34.90	36.88	6.86	37.15	41.49	74.00	-32.51	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:4MHz; Channel:Low



Trace: (Discrete)

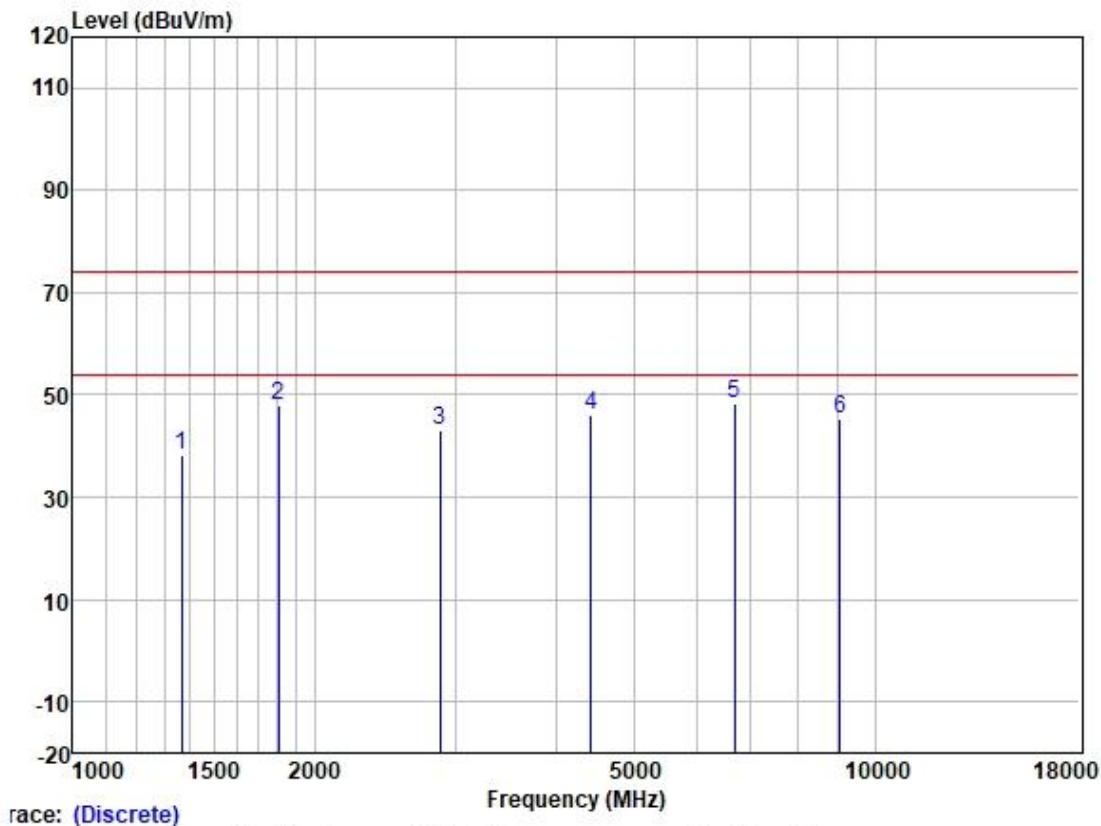
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1464.522	47.67	24.38	2.92	37.96	37.01	74.00	-36.99	VERTICAL	Peak
2	1803.332	62.54	25.88	3.24	37.91	53.75	54.00	-0.25	VERTICAL	Average
3	1803.332	70.87	25.88	3.24	37.91	62.08	74.00	-11.92	VERTICAL	Peak
4	3069.345	47.06	28.71	4.32	37.26	42.83	74.00	-31.17	VERTICAL	Peak
5	5060.668	44.11	34.03	5.34	36.91	46.57	74.00	-27.43	VERTICAL	Peak
6	7263.015	40.01	35.86	6.88	37.14	45.61	74.00	-28.39	VERTICAL	Peak
7	10393.710	39.04	39.69	7.75	36.98	49.50	74.00	-24.50	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:4MHz; Channel:Low



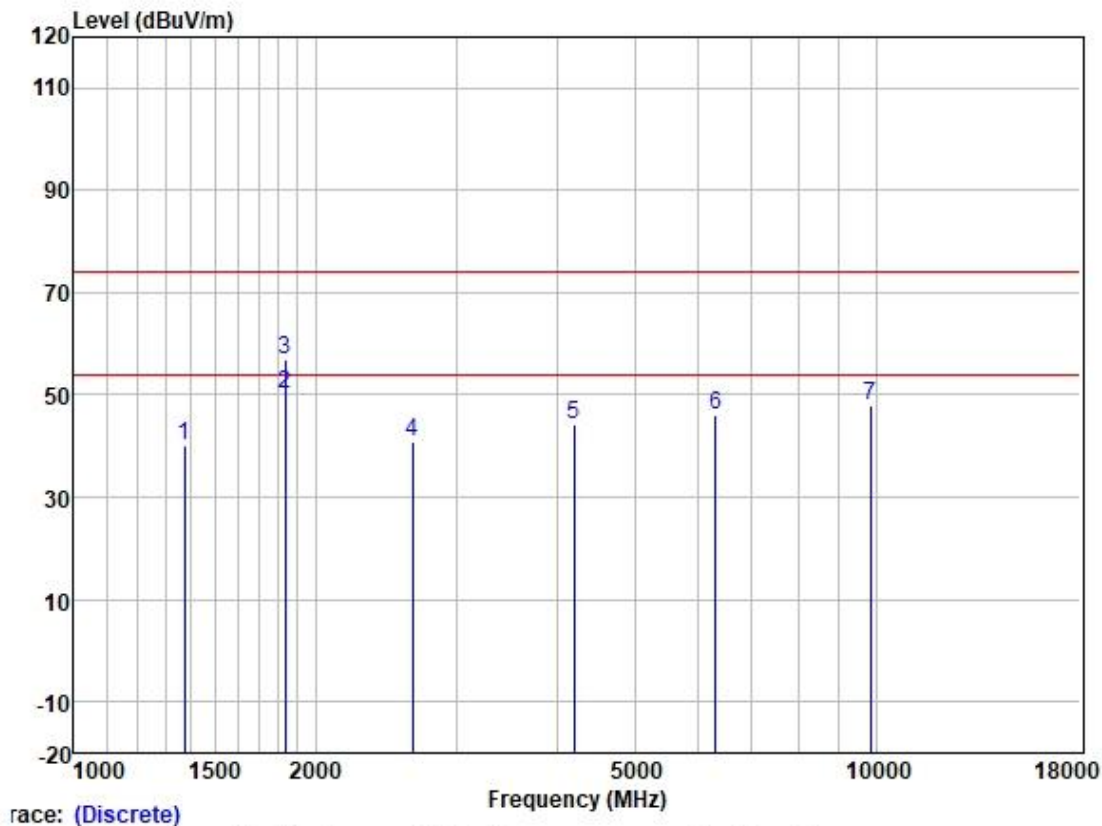
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1366.374	49.25	24.18	2.87	37.97	38.33	74.00	-35.67	HORIZONTAL	Peak
2	1803.332	56.92	25.88	3.24	37.91	48.13	74.00	-25.87	HORIZONTAL	Peak
3	2871.934	47.80	28.56	4.22	37.49	43.09	74.00	-30.91	HORIZONTAL	Peak
4	4430.628	44.42	33.87	4.79	36.83	46.25	74.00	-27.75	HORIZONTAL	Peak
5	6679.040	44.27	34.28	6.82	37.05	48.32	74.00	-25.68	HORIZONTAL	Peak
6	9047.272	37.55	37.67	7.24	37.09	45.37	74.00	-28.63	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:4MHz; Channel:middle



Trace: (Discrete)

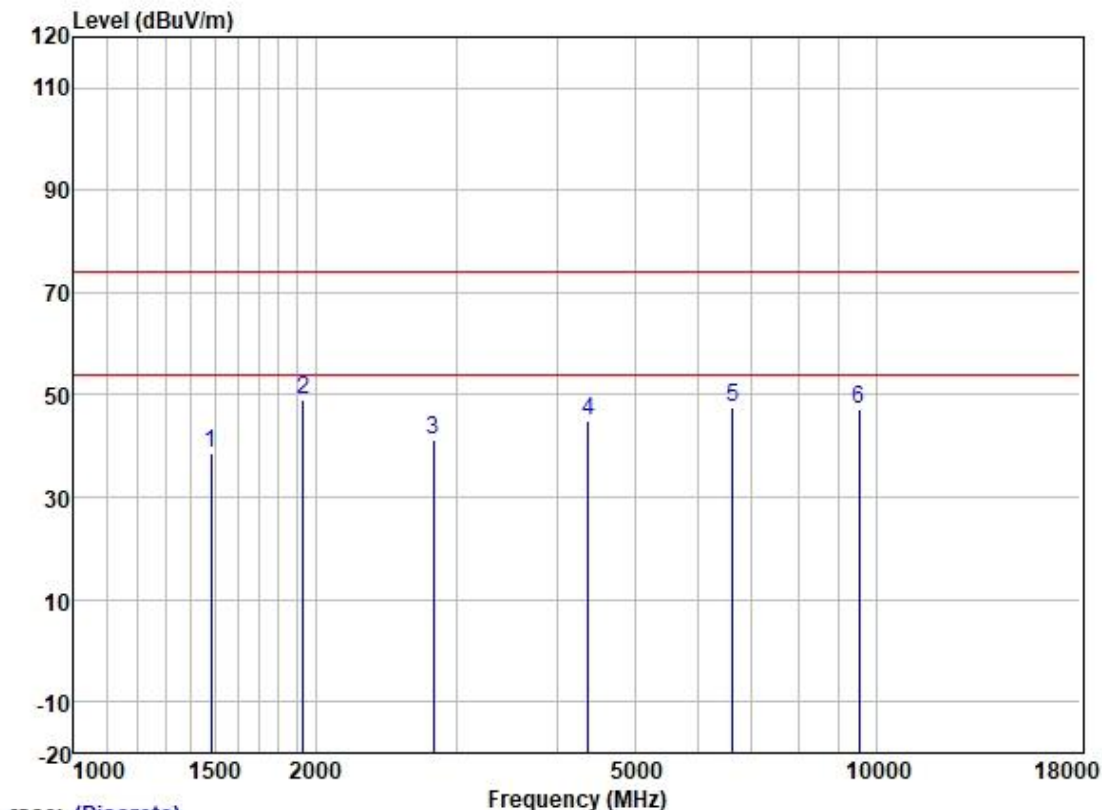
	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1374.295	50.93	24.20	2.87	37.97	40.03	74.00	-33.97	VERTICAL	Peak
2	1834.551	58.71	26.00	3.26	37.91	50.06	54.00	-3.94	VERTICAL	Average
3	1834.551	65.56	26.00	3.26	37.91	56.91	74.00	-17.09	VERTICAL	Peak
4	2641.019	46.34	28.05	3.93	37.65	40.67	74.00	-33.33	VERTICAL	Peak
5	4206.011	44.22	31.96	4.85	36.81	44.22	74.00	-29.78	VERTICAL	Peak
6	6303.890	43.45	33.46	6.37	37.02	46.26	74.00	-27.74	VERTICAL	Peak
7	9838.312	38.25	38.88	7.66	37.01	47.78	74.00	-26.22	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:4MHz; Channel:middle



Trace: (Discrete)

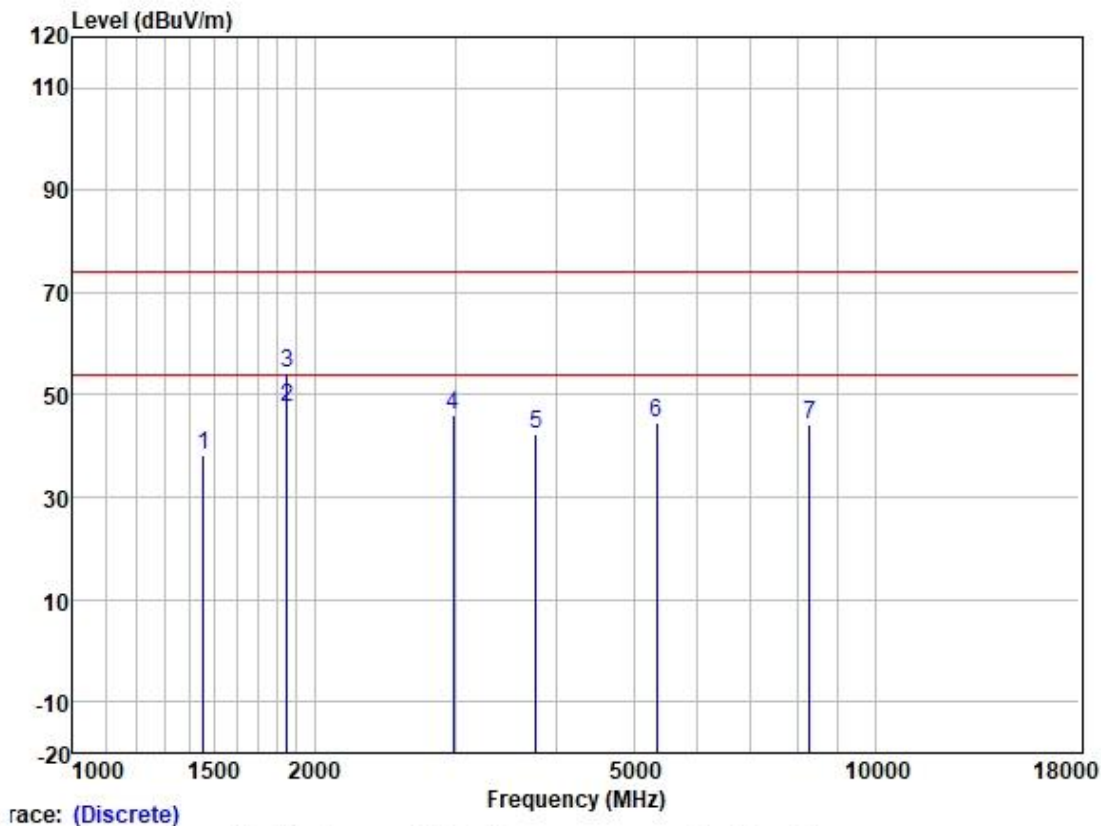
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1481.553	49.05	24.41	2.93	37.95	38.44	74.00	-35.56	HORIZONTAL	Peak
2	1932.868	57.34	26.26	3.32	37.90	49.02	74.00	-24.98	HORIZONTAL	Peak
3	2806.288	46.25	28.46	4.16	37.53	41.34	74.00	-32.66	HORIZONTAL	Peak
4	4379.699	43.56	33.59	4.80	36.82	45.13	74.00	-28.87	HORIZONTAL	Peak
5	6621.375	43.91	34.12	6.75	37.04	47.74	74.00	-26.26	HORIZONTAL	Peak
6	9530.432	37.87	38.63	7.64	37.03	47.11	74.00	-26.89	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:4MHz; Channel:High



Trace: (Discrete)

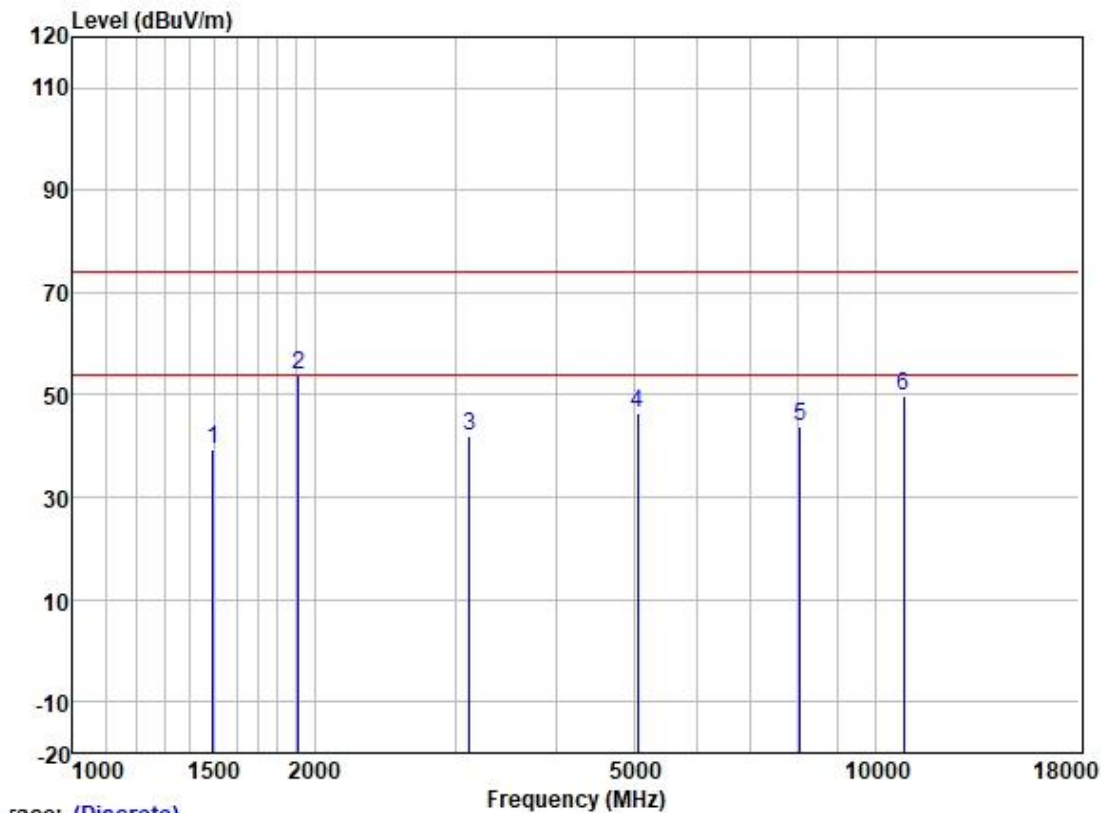
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		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1456.081	48.85	24.37	2.92	37.96	38.18	74.00	-35.82	VERTICAL	Peak
2	1850.721	56.01	26.05	3.27	37.91	47.42	54.00	-6.58	VERTICAL	Average
3	1850.721	63.06	26.05	3.27	37.91	54.47	74.00	-19.53	VERTICAL	Peak
4	2981.899	50.53	28.67	4.28	37.35	46.13	74.00	-27.87	VERTICAL	Peak
5	3779.422	44.29	30.04	4.80	36.87	42.26	74.00	-31.74	VERTICAL	Peak
6	5346.358	43.02	33.00	5.55	36.95	44.62	74.00	-29.38	VERTICAL	Peak
7	8295.823	37.47	36.71	7.23	37.18	44.23	74.00	-29.77	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:4MHz; Channel:High



Trace: (Discrete)

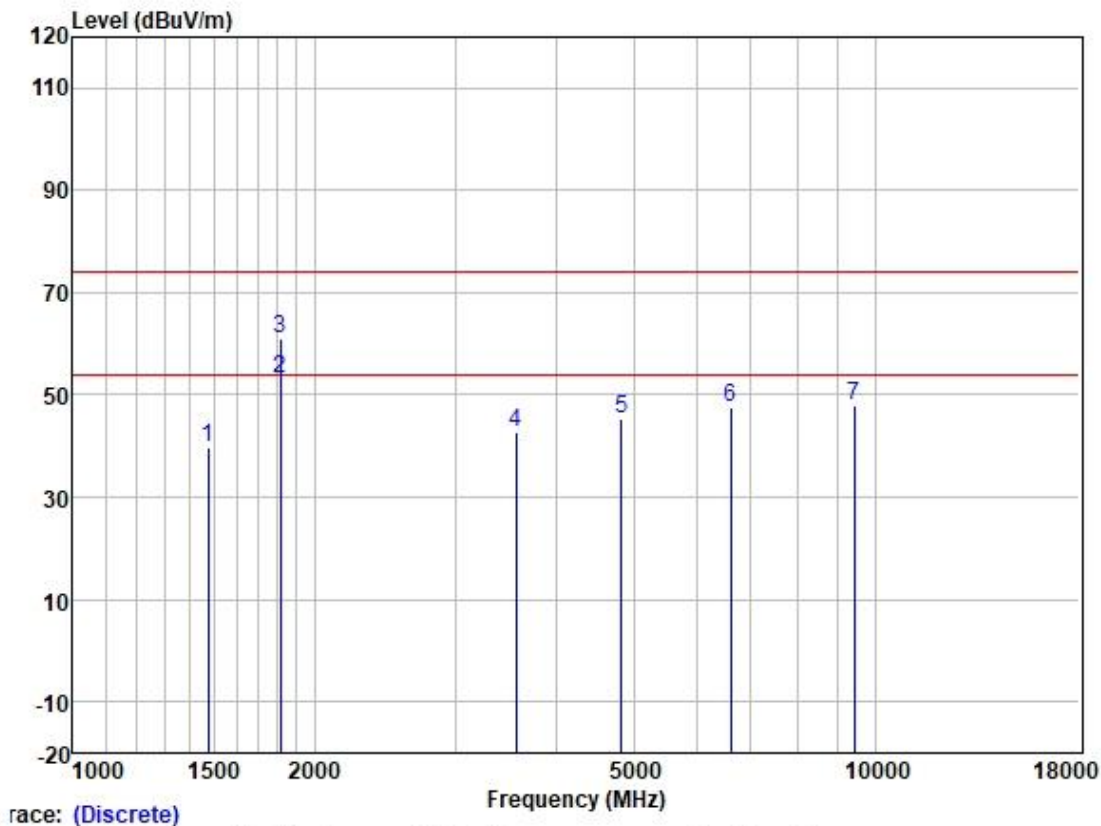
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1494.455	49.84	24.42	2.94	37.95	39.25	74.00	-34.75	HORIZONTAL	Peak
2	1910.650	62.17	26.21	3.31	37.91	53.78	74.00	-20.22	HORIZONTAL	Peak
3	3123.039	45.97	28.75	4.36	37.21	41.87	74.00	-32.13	HORIZONTAL	Peak
4	5060.668	44.07	34.03	5.34	36.91	46.53	74.00	-27.47	HORIZONTAL	Peak
5	8059.475	37.00	37.07	7.10	37.20	43.97	74.00	-30.03	HORIZONTAL	Peak
6	10854.250	38.54	40.27	8.08	36.93	49.96	74.00	-24.04	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:8MHz; Channel:Low



Trace: (Discrete)

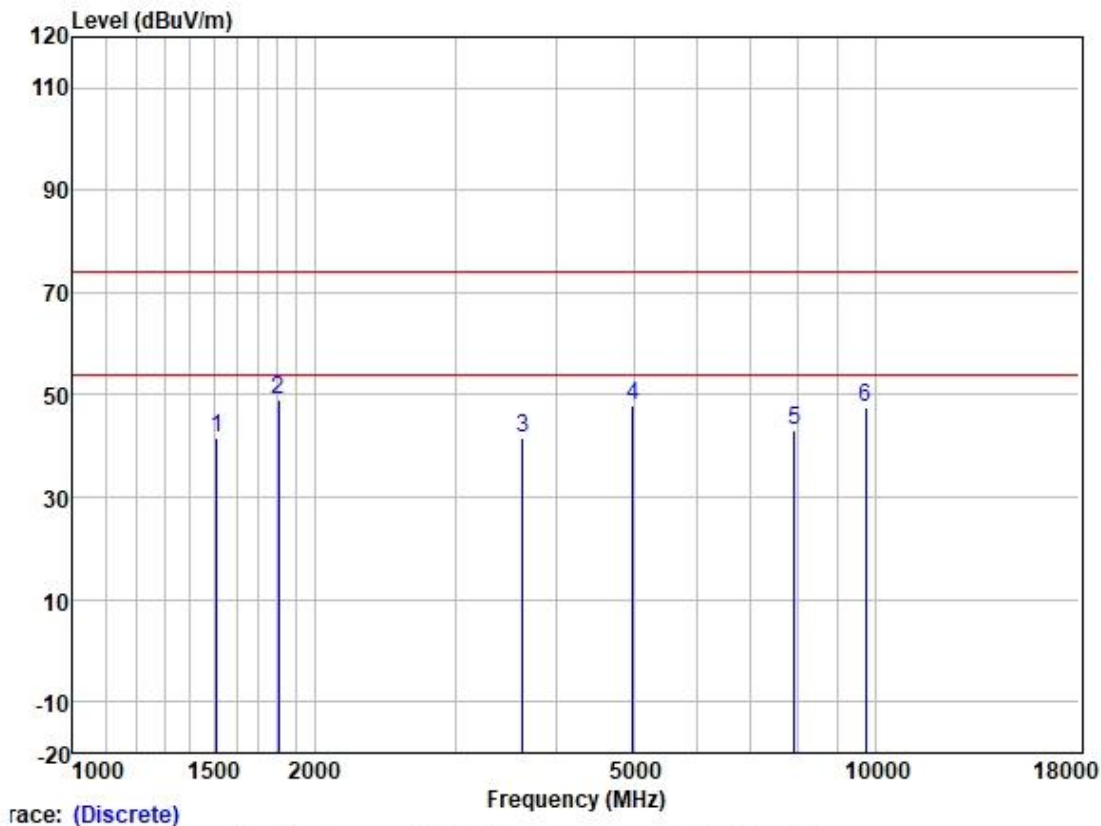
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	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1473.013	50.20	24.39	2.93	37.95	39.57	74.00	-34.43	VERTICAL
2	1813.786	61.90	25.92	3.25	37.91	53.16	54.00	-0.84	VERTICAL
3	1813.786	69.65	25.92	3.25	37.91	60.91	74.00	-13.09	VERTICAL
4	3567.138	45.65	29.19	4.66	36.94	42.56	74.00	-31.44	VERTICAL
5	4831.962	43.04	34.16	5.18	36.87	45.51	74.00	-28.49	VERTICAL
6	6602.265	43.92	34.07	6.74	37.04	47.69	74.00	-26.31	VERTICAL
7	9420.880	38.90	38.47	7.58	37.04	47.91	74.00	-26.09	VERTICAL



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:8MHz; Channel:Low



Trace: (Discrete)

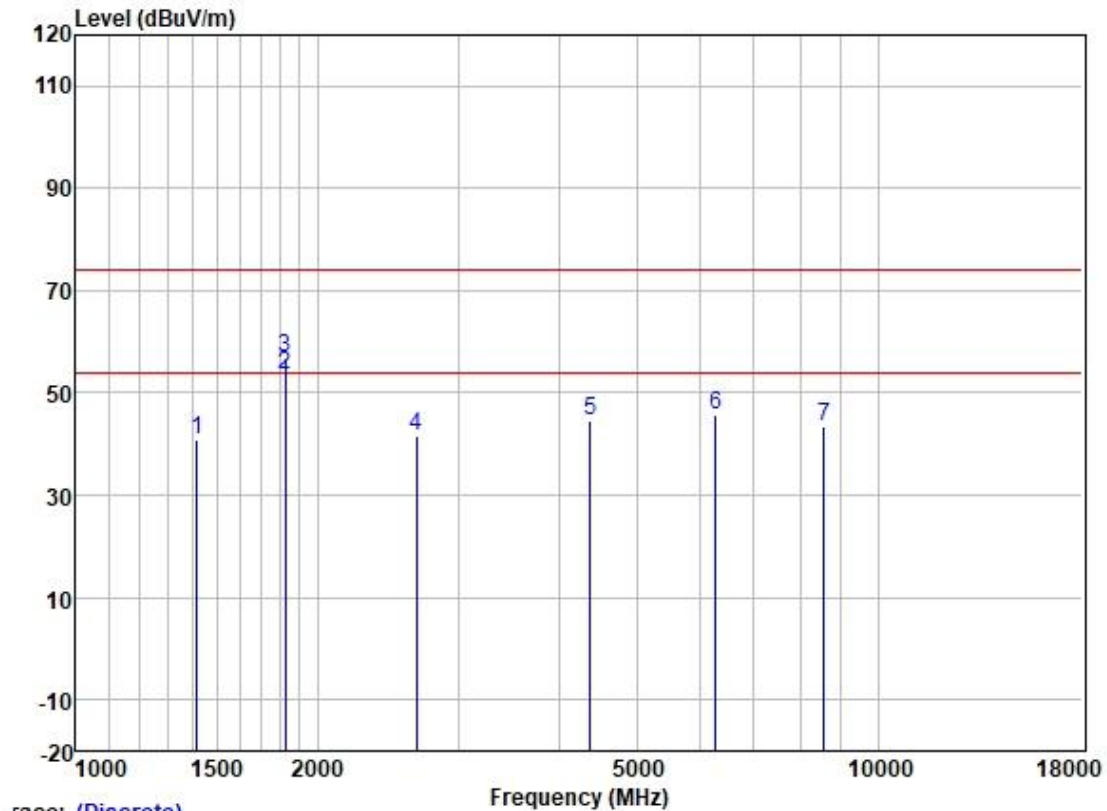
	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1511.833	51.97	24.46	2.95	37.95	41.43	74.00	-32.57	HORIZONTAL Peak
2	1803.332	57.82	25.88	3.24	37.91	49.03	74.00	-24.97	HORIZONTAL Peak
3	3640.045	44.27	29.40	4.70	36.91	41.46	74.00	-32.54	HORIZONTAL Peak
4	4988.058	45.57	34.15	5.30	36.89	48.13	74.00	-25.87	HORIZONTAL Peak
5	7943.838	36.31	37.09	7.04	37.20	43.24	74.00	-30.76	HORIZONTAL Peak
6	9725.221	38.22	38.78	7.65	37.02	47.63	74.00	-26.37	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:8MHz; Channel:middle



Trace: (Discrete)

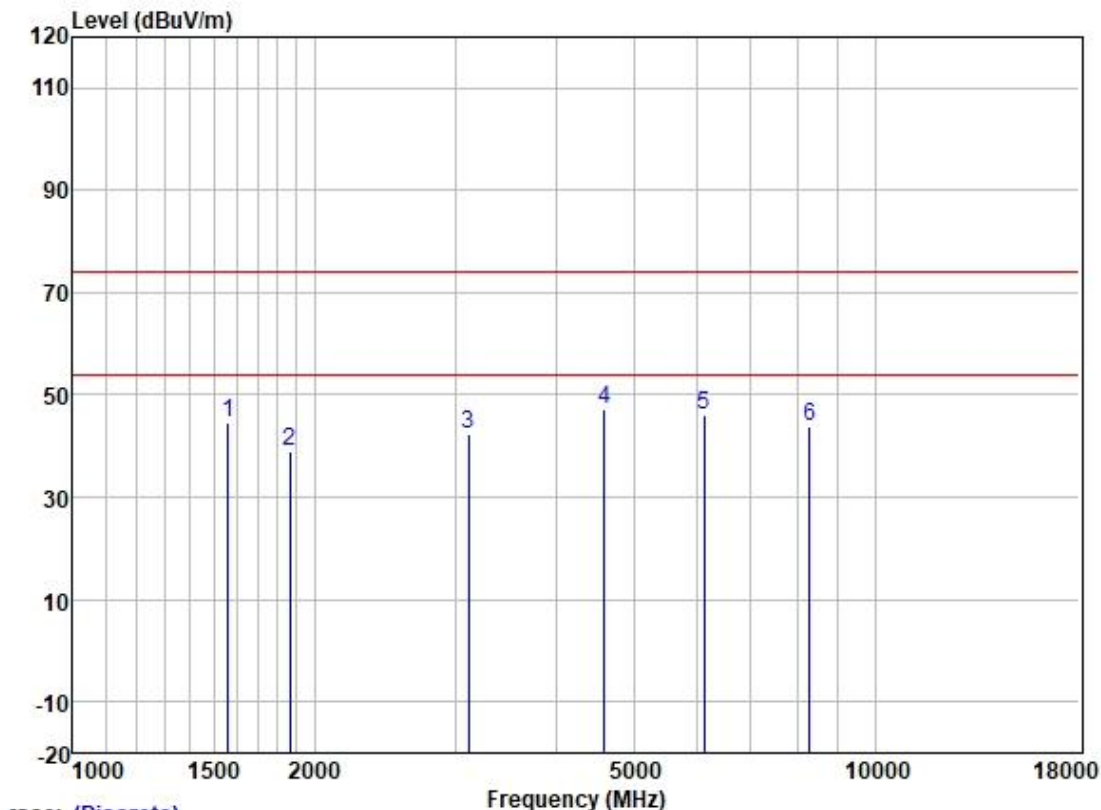
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1414.597	51.54	24.29	2.90	37.97	40.76	74.00	-33.24	VERTICAL	Peak
2	1824.302	62.15	25.97	3.25	37.91	53.46	54.00	-0.54	VERTICAL	Average
3	1824.302	65.65	25.97	3.25	37.91	56.96	74.00	-17.04	VERTICAL	Peak
4	2656.331	47.15	28.08	3.95	37.64	41.54	74.00	-32.46	VERTICAL	Peak
5	4379.699	43.19	33.59	4.80	36.82	44.76	74.00	-29.24	VERTICAL	Peak
6	6267.553	43.11	33.35	6.29	37.02	45.73	74.00	-28.27	VERTICAL	Peak
7	8563.818	36.71	36.59	7.31	37.16	43.45	74.00	-30.55	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:8MHz; Channel:middle



Trace: (Discrete)

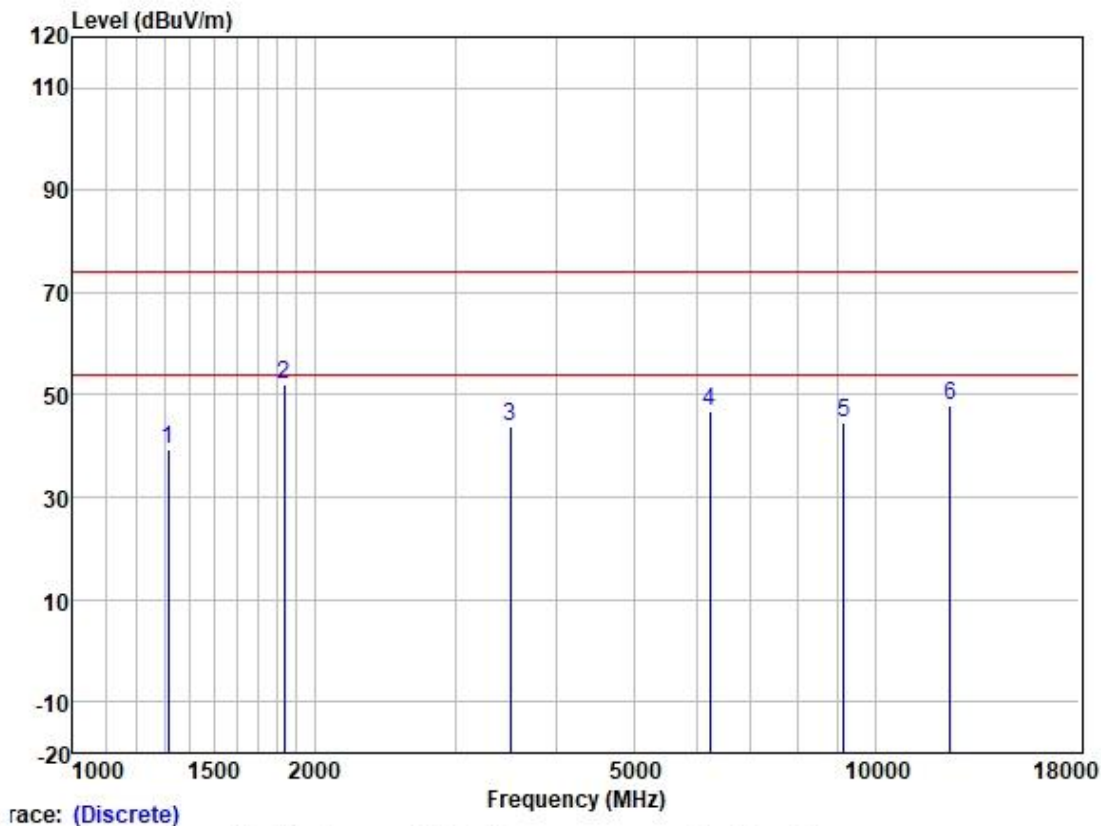
	Freq	ReadAntenna Level	Cable Loss	Preamplifier	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1560.673	54.81	24.57	2.97	37.94	44.41	74.00	-29.59 HORIZONTAL Peak
2	1866.977	47.35	26.10	3.28	37.91	38.82	74.00	-35.18 HORIZONTAL Peak
3	3114.025	46.47	28.74	4.35	37.21	42.35	74.00	-31.65 HORIZONTAL Peak
4	4600.276	44.87	34.17	4.87	36.84	47.07	74.00	-26.93 HORIZONTAL Peak
5	6124.292	44.15	32.93	6.00	37.01	46.07	74.00	-27.93 HORIZONTAL Peak
6	8295.823	37.02	36.71	7.23	37.18	43.78	74.00	-30.22 HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11ah; Bandwidth:8MHz; Channel:High



Trace: (Discrete)

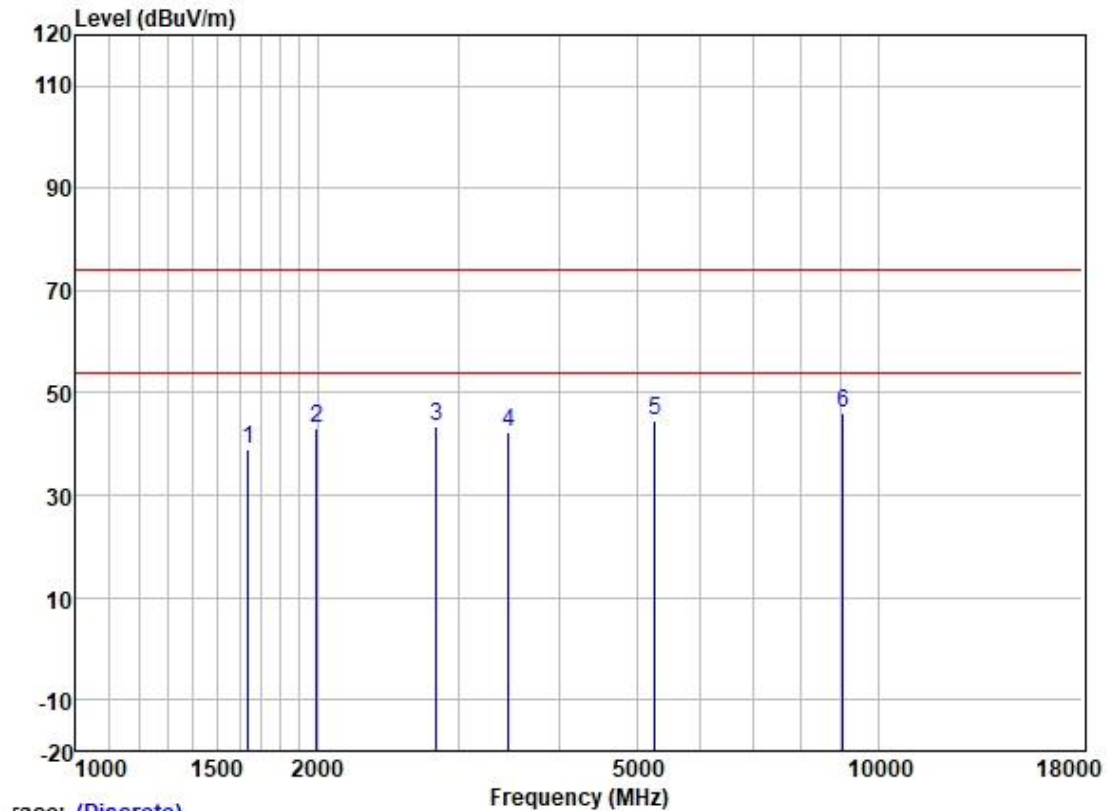
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1315.985	50.67	24.03	2.82	37.98	39.54	74.00	-34.46	VERTICAL	Peak
2	1834.878	60.68	26.00	3.26	37.91	52.03	74.00	-21.97	VERTICAL	Peak
3	3505.809	47.29	29.05	4.64	36.97	44.01	74.00	-29.99	VERTICAL	Peak
4	6231.427	44.28	33.22	6.21	37.01	46.70	74.00	-27.30	VERTICAL	Peak
5	9152.479	36.41	37.85	7.32	37.07	44.51	74.00	-29.49	VERTICAL	Peak
6	12397.740	36.59	38.42	9.64	36.64	48.01	74.00	-25.99	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ah; Bandwidth:8MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1639.274	48.93	24.83	3.02	37.93	38.85	74.00	-35.15	HORIZONTAL Peak
2	1995.309	51.37	26.37	3.34	37.90	43.18	74.00	-30.82	HORIZONTAL Peak
3	2814.411	48.31	28.47	4.17	37.53	43.42	74.00	-30.58	HORIZONTAL Peak
4	3465.510	45.54	29.02	4.63	36.99	42.20	74.00	-31.80	HORIZONTAL Peak
5	5269.649	42.62	33.30	5.49	36.94	44.47	74.00	-29.53	HORIZONTAL Peak
6	9047.272	38.14	37.67	7.24	37.09	45.96	74.00	-28.04	HORIZONTAL Peak



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8 Test Setup Photo

Refer to Appendix _ Test Setup Photo for GZCR230900100802



9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2309001008AT



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10 Appendix

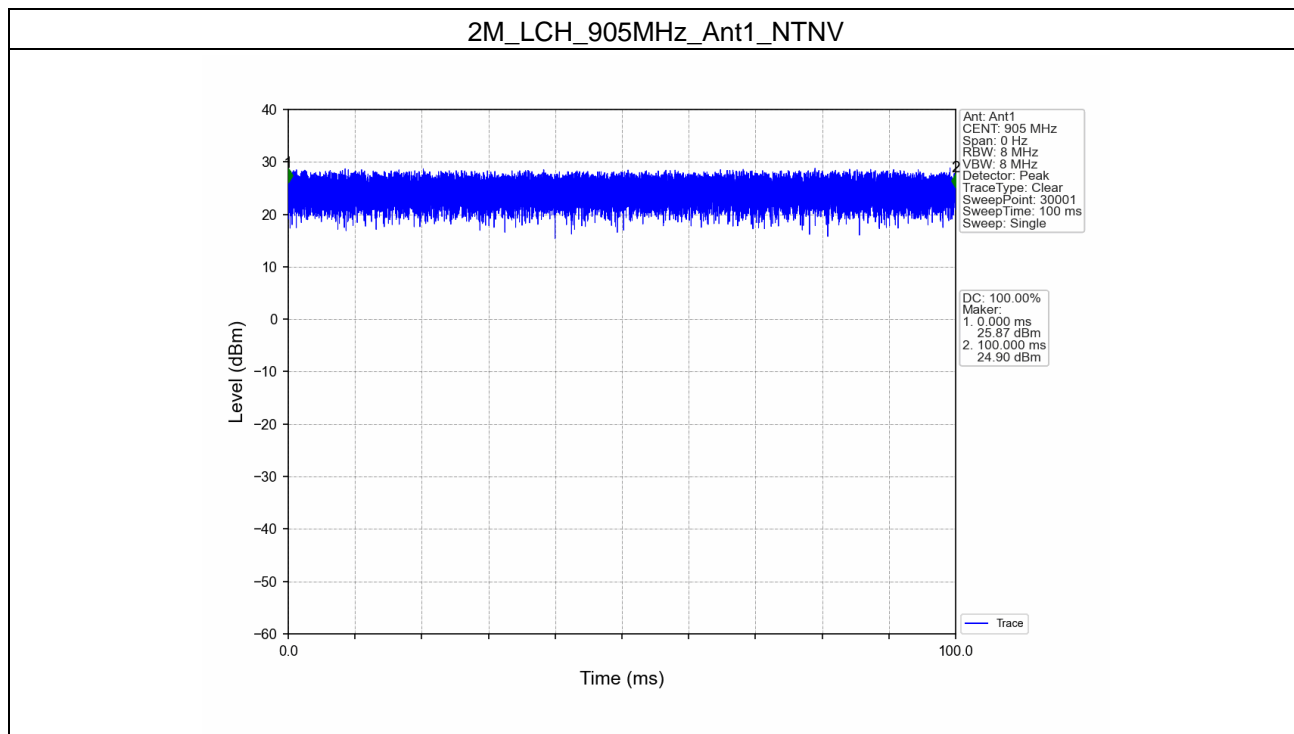
1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
2M	SISO	905	100.000	100.000	100.00	0.00	0.00
		915	100.000	100.000	100.00	0.00	0.00
		925	100.000	100.000	100.00	0.00	0.00
4M	SISO	906	100.000	100.000	100.00	0.00	0.00
		918	100.000	100.000	100.00	0.00	0.00
		926	100.000	100.000	100.00	0.00	0.00
8M	SISO	908	100.000	100.000	100.00	0.00	0.00
		916	100.000	100.000	100.00	0.00	0.00
		924	100.000	100.000	100.00	0.00	0.00

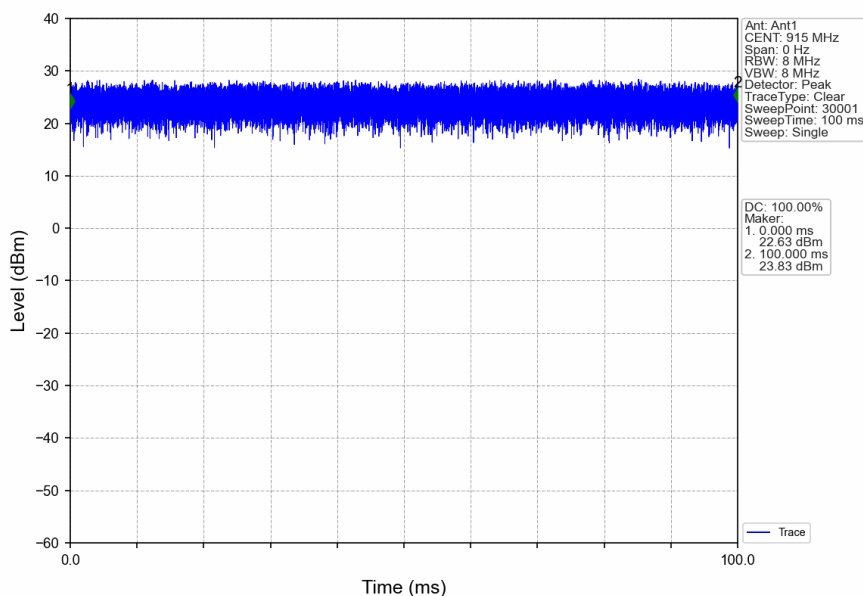
1.1.2 Test Graph



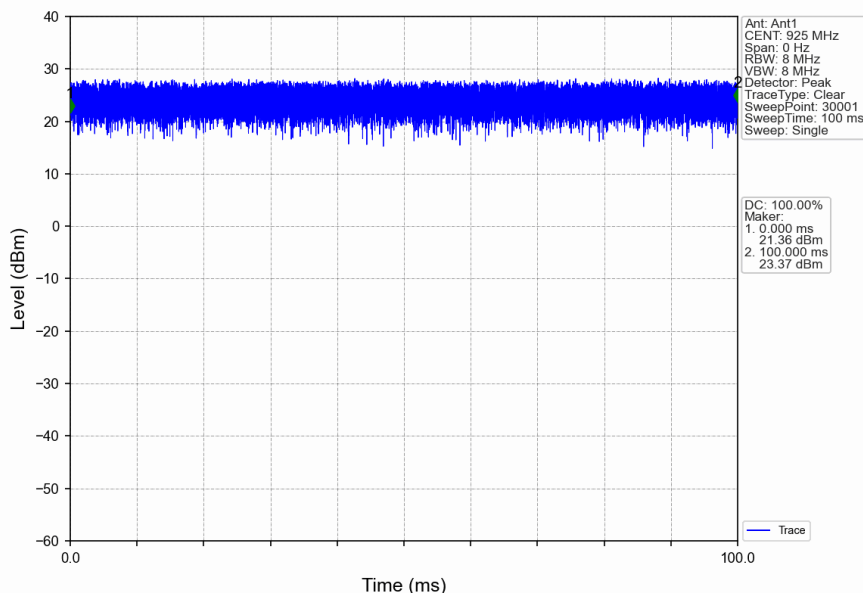
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2M_MCH_915MHz_Ant1_NTNV



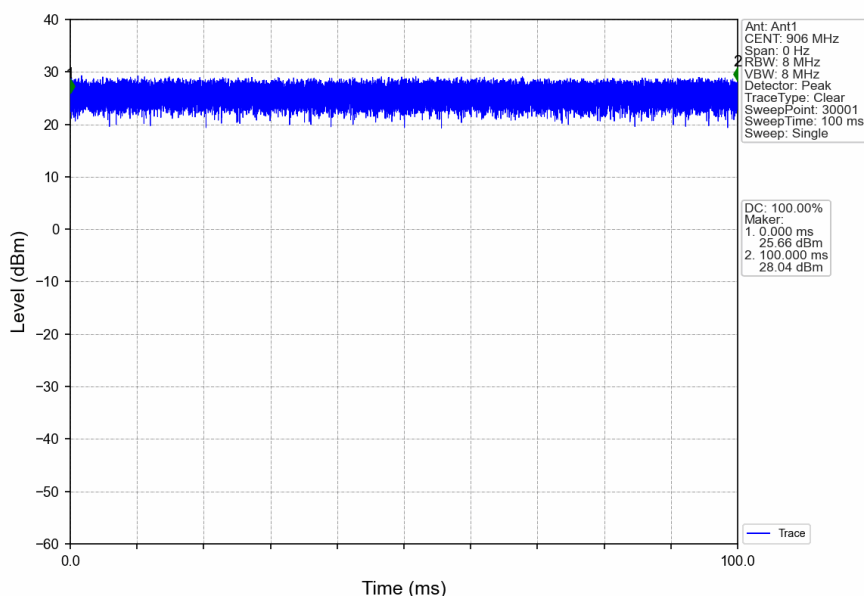
2M_HCH_925MHz_Ant1_NTNV



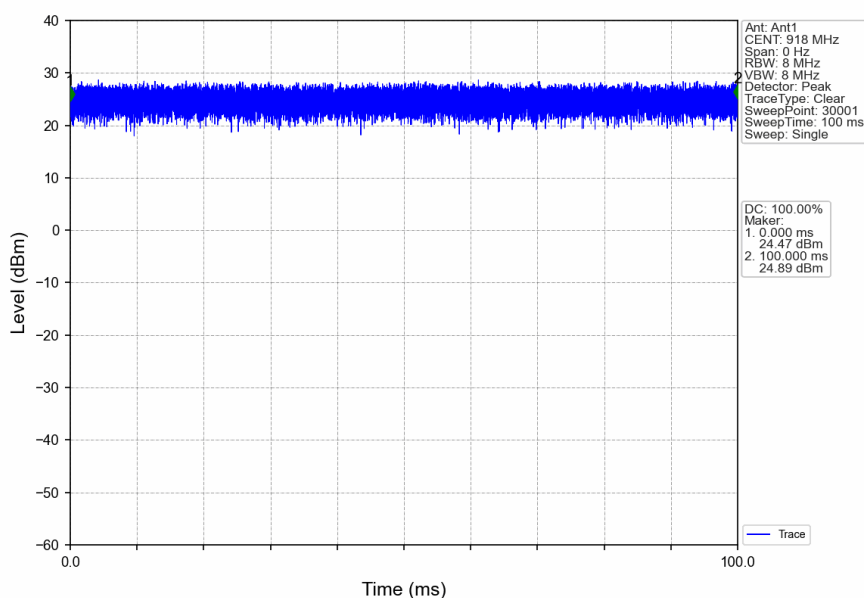
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4M_LCH_906MHz_Ant1_NTNV



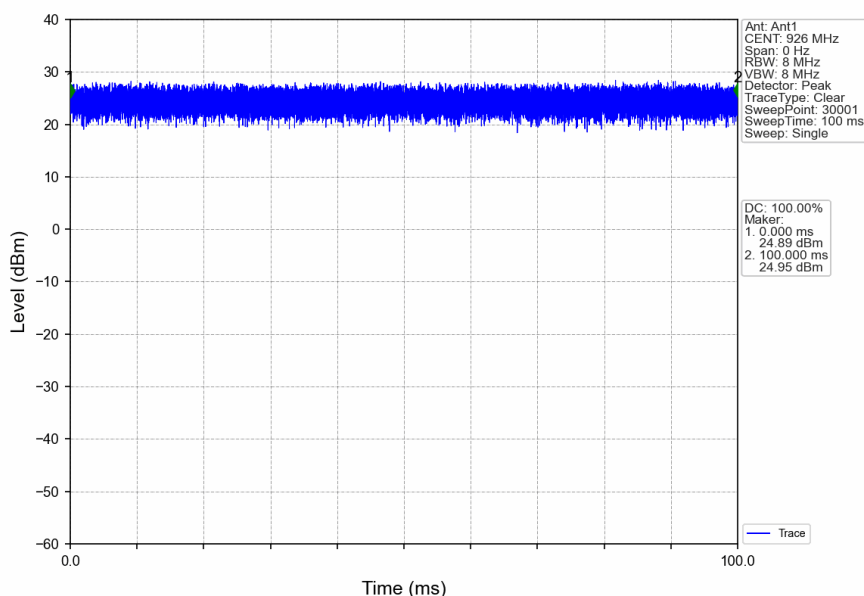
4M_MCH_918MHz_Ant1_NTNV



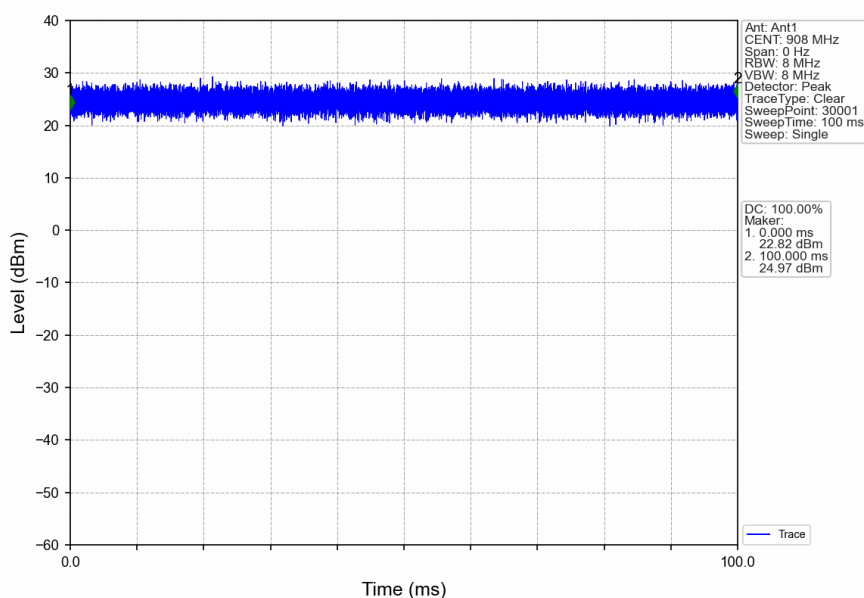
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4M_HCH_926MHz_Ant1_NTNV



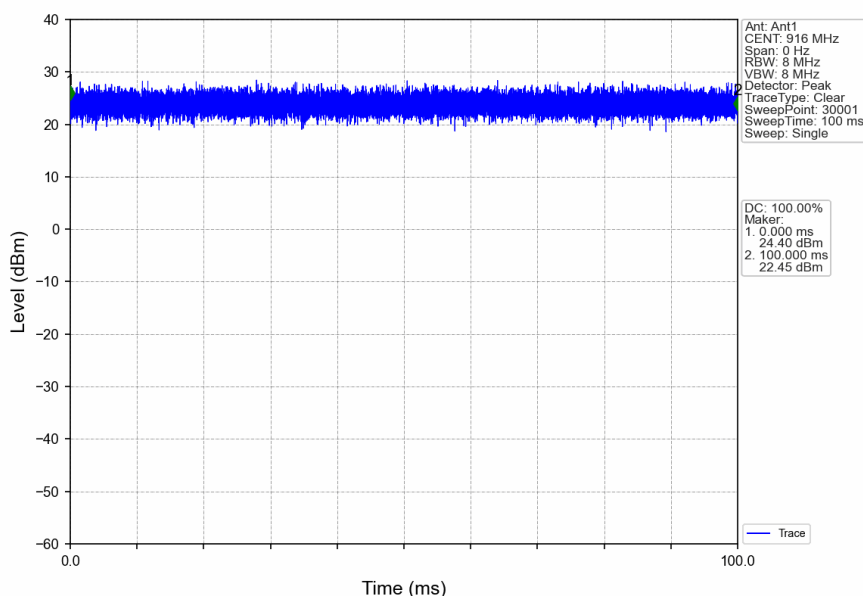
8M_LCH_908MHz_Ant1_NTNV



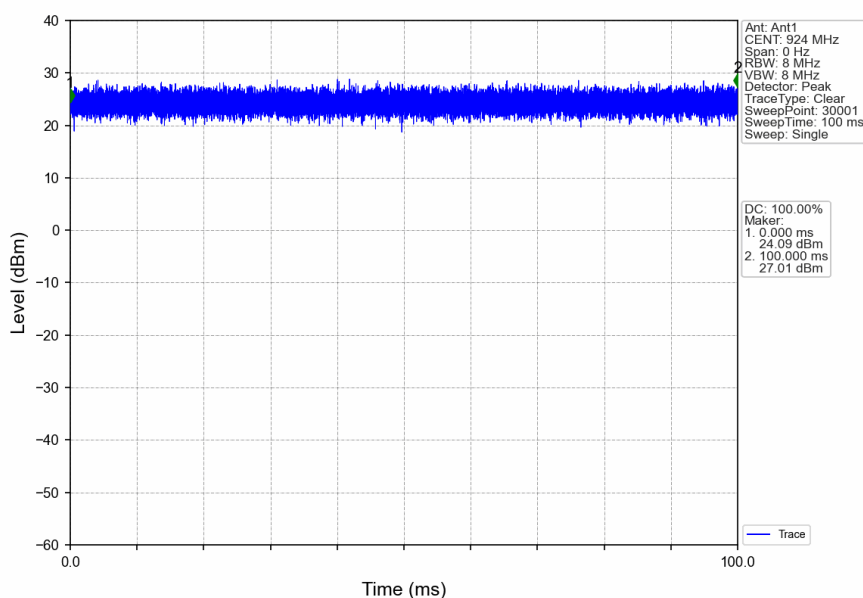
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8M_MCH_916MHz_Ant1_NTNV



8M_HCH_924MHz_Ant1_NTNV



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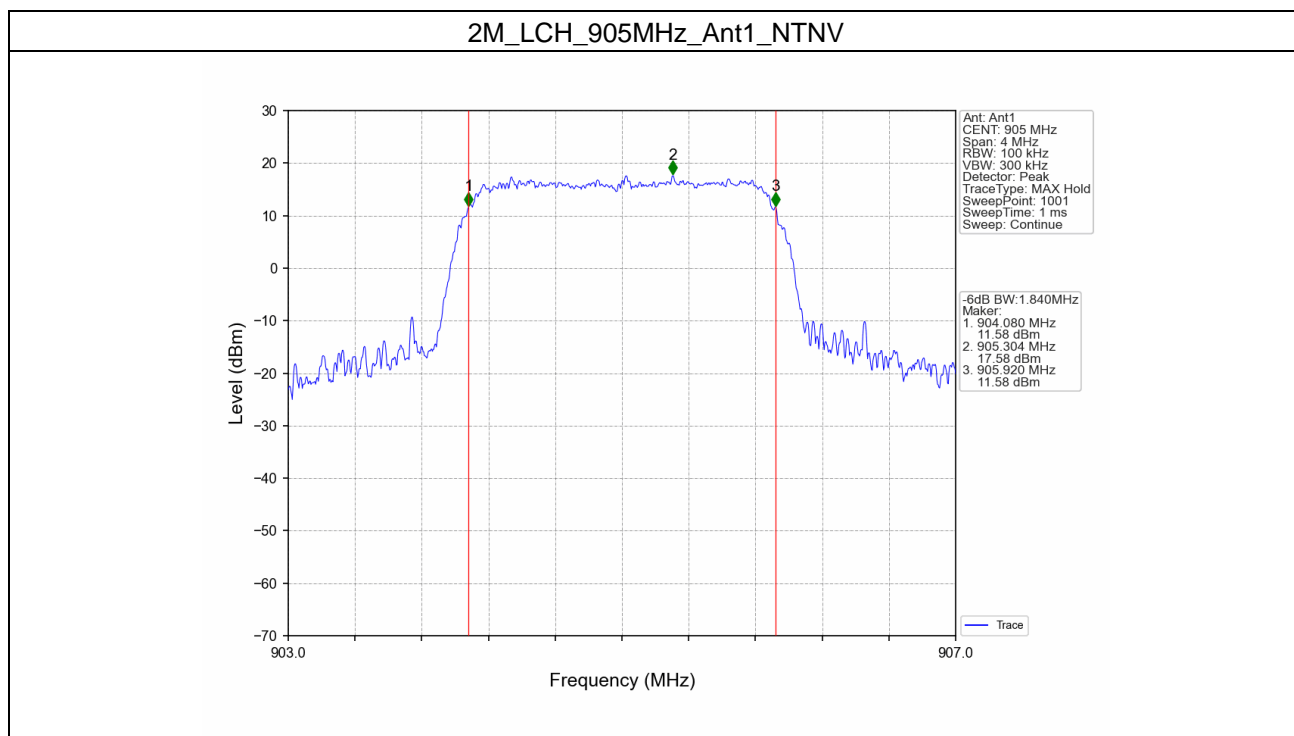
2. Bandwidth

2.1 6dB BW

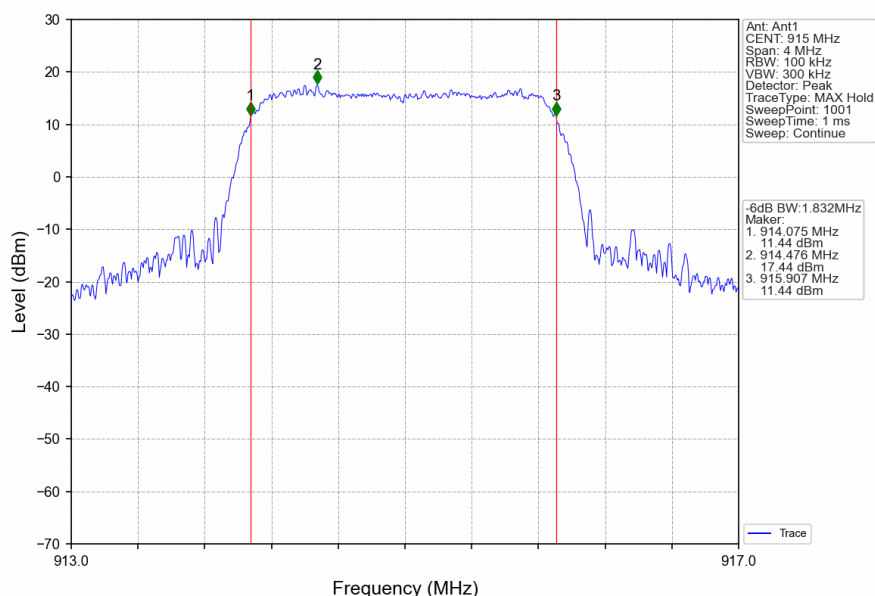
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
2M	SISO	905	1	1.840	≥ 0.5	Pass
		915	1	1.832	≥ 0.5	Pass
		925	1	1.856	≥ 0.5	Pass
4M	SISO	906	1	3.684	≥ 0.5	Pass
		918	1	3.688	≥ 0.5	Pass
		926	1	3.675	≥ 0.5	Pass
8M	SISO	908	1	7.529	≥ 0.5	Pass
		916	1	7.579	≥ 0.5	Pass
		924	1	7.539	≥ 0.5	Pass

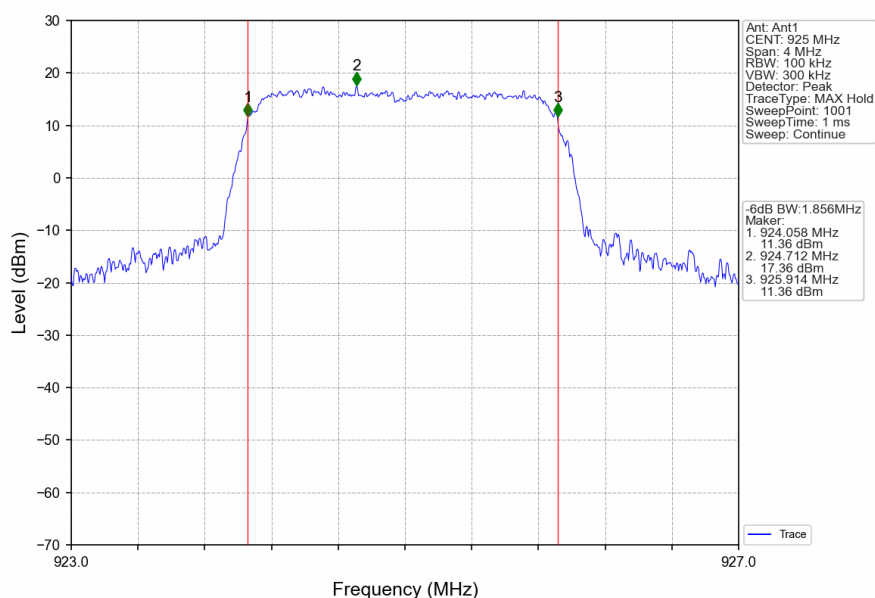
2.2.2 Test Graph



2M_MCH_915MHz_Ant1_NTNV



2M_HCH_925MHz_Ant1_NTNV



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