TEST REPORT

Report No.:	8433EU010719W1
Applicant:	shen zhen mangmi technology Co., Ltd.
Address:	1801D, Building 8, Qianhai Excellence Finance Center (Phase I), No. 5033, Menghai Avenue, Nanshan Street, Nanshan District, Shenzhen, China
Product Name:	Handheld Game Console
Model No.:	AIR Y Pro
Trademark:	MANGMI
FCC ID:	2BO6D-AIRYPRO
Test Standard(s):	47 CFR Part 15.247
Test Result:	Pass
Date of Receipt:	Jul. 08, 2026
Test Date:	Jul. 08, 2026 - Aug. 12, 2026
Date of Issue:	Aug. 14, 2026

ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED

SHENZHEN EU TESTING LABORATORY LIMITED APPROVED

Prepared by: **Reviewed and Approved by:**

Landon Qiu/ Engineer

Sally Zhang/ Manager

Revision Record

Report Version	Issued Date	Description	Status
V0	Aug. 14, 2026	Original	Valid

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2 General Information

2.1 Applicant Information

Applicant	shen zhen mangmi technology Co., Ltd.
Address	1801D, Building 8, Qianhai Excellence Finance Center (Phase I), No. 5033, Menghai Avenue, Nanshan Street, Nanshan District, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	shen zhen mangmi technology Co., Ltd.
Address	1801D, Building 8, Qianhai Excellence Finance Center (Phase I), No. 5033, Menghai Avenue, Nanshan Street, Nanshan District, Shenzhen, China

2.3 Factory Information

Factory	shen zhen mangmi technology Co., Ltd.
Address	1801D, Building 8, Qianhai Excellence Finance Center (Phase I), No. 5033, Menghai Avenue, Nanshan Street, Nanshan District, Shenzhen, China

2.4 General Description of E.U.T.

Product Name	Handheld Game Console
Model No. Under Test	AIR Y Pro
List Model No.	N/A
Description of Model differentiation	N/A
Rating(s)	Input: 9VDC, 2A Battery Capacity:3.85VDC, 5000mAh, 19.25Wh
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Test Sample No.	8433EU010719W-1/2(Normal), 8433EU010719W-2/2(Engineering)
Hardware Version	N/A
Software Version	N/A
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	WiFi 2.4G: 802.11b, 802.11g, 802.11n(HT20/40) WiFi 5G: 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) and 802.11ax(HEW20/40/80) U-NII-1/3

The requirement for the following technical information of the EUT was tested in this report:

Technology	WiFi 2.4G
Operation Mode	b, g, n(HT20/40)
Operating 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: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM).
Number of Channels	802.11b/g/n(HT20): 11 Channels 802.11n(HT40): 7 Channels
Antenna System (eg., MIMO, Smart Antenna)	Multi Input Multi Output (MIMO) for 802.11n
Categorization as Correlated or Completely Uncorrelated	Categorization as Uncorrelated for 802.11n
Antenna Type	FPC Antenna
Antenna Gain(Peak)	ANT 1: 1.08 dBi ANT 2: 0.63 dBi
Total directional gain	Correlated: 3.87 dBi Formulas: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2$ /NANT] dBi
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.

All channels were listed on the following table:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

Test Items	Standard	Method	Requirement	Results
Antenna requirement	47 CFR Part 15.247	---	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2	47 CFR 15.207(a)	Pass
6dB Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11 KDB 558074 D01 15.247 Meas	47 CFR 15.247(d)	Pass

		Guidance v05r02		
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Note: (1) “N/A” denotes test is not applicable in this Test Report.				

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15℃ to +35℃
Working Voltage of the EUT	NV (Normal Voltage)	120VAC, 60Hz for adapter or 3.85VDC battery inside

4.2 Test Equipment

Conducted Emission at AC power line					
Equipment	**Manufacturer**	**Model No**	**Serial No**	**Cal Date**	**Cal Due Date**
Test Software	Farad	EZ-EMC	EE-014	/	/
EMI Test Receiver	Rohde & Schwarz	ESCI	EE-005	2026-04-07	2027-04-06
L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	EE-004	2026-05-10	2027-05-09
8-Wire ISN CAT6	Schwarzbeck	NTFM 8158	EE-219	2026-05-18	2027-05-17

Power Spectral Density **Emissions in non-restricted frequency bands** **6dB Bandwidth** **Maximum Conducted Output Power**					
Equipment	**Manufacturer**	**Model No**	**Serial No**	**Cal Date**	**Cal Due Date**
MXA Signal Analyzer	Agilent	N9020A	EE-011	2026-04-07	2027-04-06
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2026-04-07	2027-04-06
MIMO Power Measurement Module	TSTPASS	TSPS 2023R	EE-016	2026-04-11	2027-04-10
MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2026-02-13	2027-02-12
Power Meter	Anritsu	ML2495A	EE-416	2026-02-13	2027-02-12
Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2025-07-29	2026-07-28
				2026-07-14	2027-07-13
RF Test Software	TSTPASS	TS32893 V2.0	EE-017	/	/
Band-Stop Filter	COM-MW	ZBSF8-L2400-2483.5-1016	EE-025	2026-04-07	2027-04-06
Band-Stop Filter	COM-MW	K6-5150-5850-250S5020-001	EE-026	2026-04-07	2027-04-06
Filter	COM-MW	ZHPF6-	EE-027	2026-04-07	2027-04-06

		M3000-18000-174			
Filter	COM-MW	ZHPF6-M1300-18000-5356	EE-028	2026-04-07	2027-04-06
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-030	2026-04-07	2027-04-06

Band edge emissions (Radiated) **Emissions in frequency bands (above 1GHz)**					
Equipment	**Manufacturer**	**Model No**	**Serial No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2026-04-08	2027-04-07
Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2026-04-12	2027-04-11
Pre-amplifier	Agilent	8449B	EE-010	2026-04-07	2027-04-06
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2026-04-07	2027-04-06
Test Software	Farad	EZ-EMC	EE-015	/	/
Band-Stop Filter	COM-MW	ZBSF8-L2400-2483.5-1016	EE-025	2026-04-07	2027-04-06
Band-Stop Filter	COM-MW	K6-5150-5850-250S5020-001	EE-026	2026-04-07	2027-04-06
Filter	COM-MW	ZHPF6-M3000-18000-174	EE-027	2026-04-07	2027-04-06
Filter	COM-MW	ZHPF6-M1300-18000-5356	EE-028	2026-04-07	2027-04-06
Spectrum Analyzer	ROHDE & SCHWARZ	FSV40-N	EE-029	2026-04-07	2027-04-06
40G Horn Antenna	HCT	HA-018040L	EE-031	2026-04-12	2027-04-11
40G Pre-amplifier	HCT	HC180400-50G25	EE-032	2026-04-07	2027-04-06

Emissions in frequency bands (below 1GHz)					
Equipment	**Manufacturer**	**Model No**	**Serial No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2026-04-08	2027-04-07
Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2026-04-12	2027-04-11
Pre-amplifier	Agilent	8447D	EE-009	2026-04-08	2027-04-07

MXA Signal Analyzer	Agilent	N9020A	EE-011	2026-04-07	2027-04-06
Test Software	Farad	EZ-EMC	EE-015	/	/
Loop Antenna	SCHWARZBECK	FMZB 1519-60	EE-022	2026-04-12	2027-04-11
Band-Stop Filter	COM-MW	ZBSF6-C902-928-2389	EE-023	2026-04-07	2027-04-06
Band-Stop Filter	COM-MW	ZBSF6-C855-880-5938	EE-024	2026-04-07	2027-04-06

4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	Pink Notebook	ADOL	ADOL13F	EMC-PJ-030
2	Adapter	UGREEN	CD289	EMC-PJ-054

4.4 Test Mode

No.	Test Modes	Description
TM1	802.11b Mode	Keep the EUT in 802.11b transmitting mode (SISO-ant1, SISO-ant2), tested at lowest, middle and highest channel.
TM2	802.11g Mode	Keep the EUT in 802.11g transmitting mode (SISO-ant1, SISO-ant2), tested at lowest, middle and highest channel.
TM3	802.11n(HT20) Mode	Keep the EUT in 802.11n (HT20) transmitting mode (SISO-ant1, SISO-ant2, MIMO 2x2), tested at lowest, middle and highest channel.
TM4	802.11n(HT40) Mode	Keep the EUT in 802.11ax (HE20) transmitting mode (SISO-ant1, SISO-ant2, MIMO 2x2), tested at lowest, middle and highest channel.

4.5 Description of Calculation

4.5.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) – AG (dB)

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

4.5.2 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

4.6 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty
Conducted Emission	2.65 dB
Occupied Channel Bandwidth	69 kHz
RF output power, conducted	1.07 dB
Power Spectral Density, conducted	0.94 dB
Unwanted Emissions, conducted	2.73 dB
Radiated Emission (1GHz- 18GHz)	Ur = 3.58 dB (Horizontal) Ur = 3.58 dB (Vertical)
Radiated Emission (9kHz- 30MHz)	Ur = 3.06 dB
Radiated Emission (30MHz- 1GHz)	Ur = 2.76 dB (Horizontal) Ur = 2.76 dB (Vertical)
Radiated Emission (18GHz-40GHz)	Ur = 5.29 dB (Horizontal) Ur = 5.21 dB (Vertical)

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Condition

None

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5 Evaluation Results (Evaluation)

5.1 Antenna requirement

5.1.1 Test Specification

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Test Method:	---

5.1.2 Test Data

PASS.

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna-design is used.

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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Website: www.eu-test.com
Tel: (86)-755-2357-9714 Email: Service@eu-test.com

6 Radio Spectrum Matter Test Results (RF)

6.1 Conducted Emission at AC power line

6.1.1 Test Specification

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).
Test 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

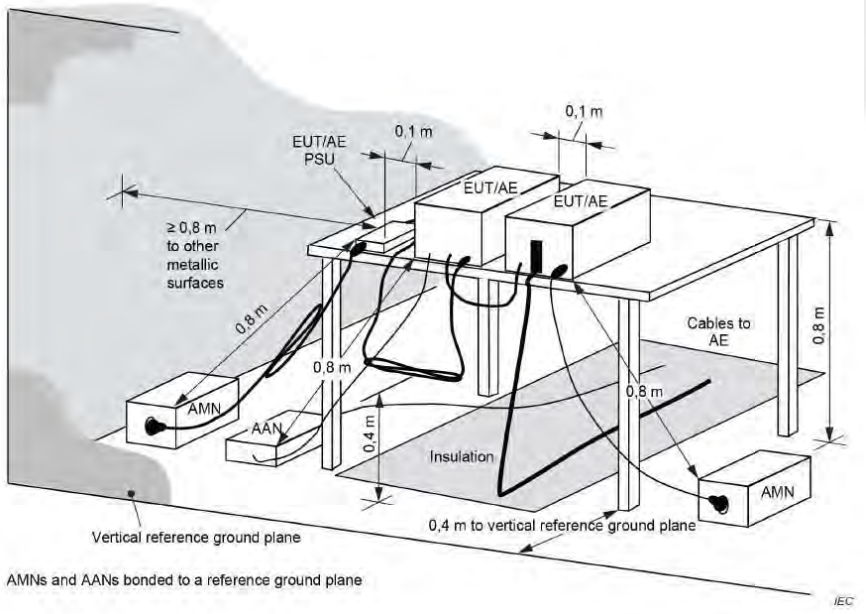
*Decreases with the logarithm of the frequency.

Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2
Procedure:	Refer to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices

6.1.2 E.U.T. Operation

Pre test mode:	TM1
Final test mode:	TM1

6.1.3 Test Setup Diagram



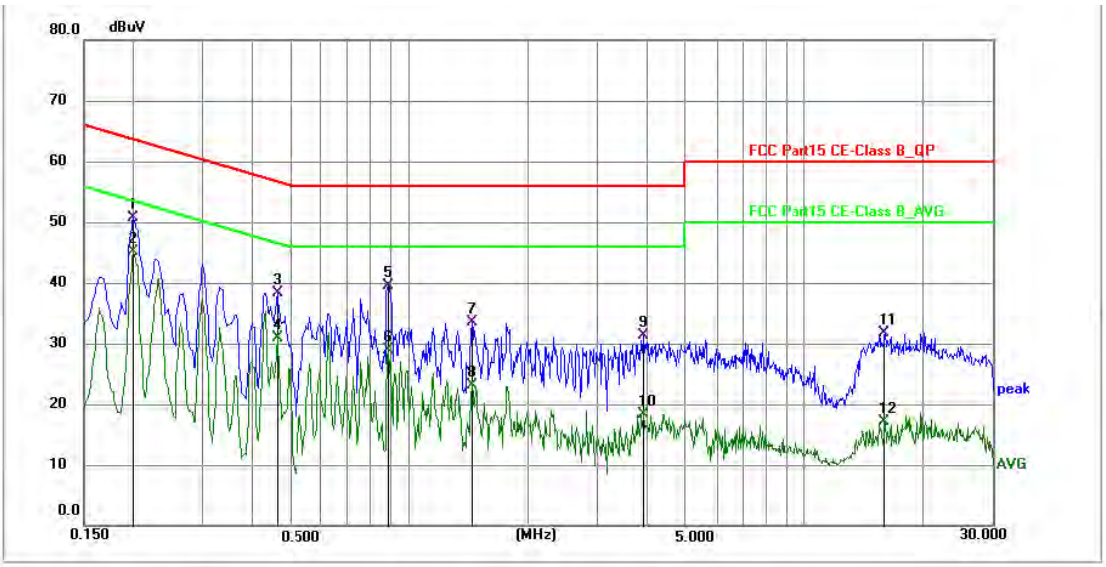
6.1.4 Test Data

PASS.

Only the worst case data was showed in the report, please to see the following pages.

Conducted Emission at AC power line Test Data

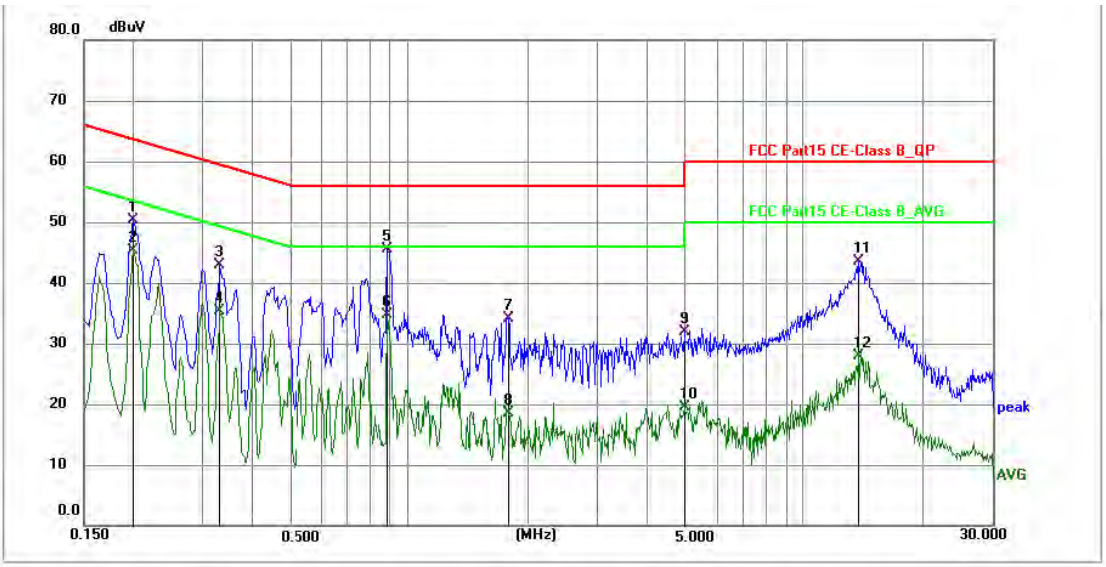
TM1 (SISO-ant2) / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1997	40.68	9.97	50.65	63.62	-12.97	QP	P	
2 *	0.1997	35.11	9.97	45.08	53.62	-8.54	AVG	P	
3	0.4612	28.25	10.03	38.28	56.67	-18.39	QP	P	
4	0.4612	20.78	10.03	30.81	46.67	-15.86	AVG	P	
5	0.8850	29.49	10.04	39.53	56.00	-16.47	QP	P	
6	0.8850	18.86	10.04	28.90	46.00	-17.10	AVG	P	
7	1.4409	23.47	10.03	33.50	56.00	-22.50	QP	P	
8	1.4409	13.10	10.03	23.13	46.00	-22.87	AVG	P	
9	3.9014	21.20	10.05	31.25	56.00	-24.75	QP	P	
10	3.9014	8.17	10.05	18.22	46.00	-27.78	AVG	P	
11	16.0545	21.78	9.99	31.77	60.00	-28.23	QP	P	
12	16.0545	7.17	9.99	17.16	50.00	-32.84	AVG	P	

Conducted Emission at AC power line Test Data

TM1 (SISO-ant2) / Line: Neutral / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1995	40.27	9.99	50.26	63.63	-13.37	QP	P	
2 *	0.1995	35.29	9.99	45.28	53.63	-8.35	AVG	P	
3	0.3300	32.84	10.02	42.86	59.45	-16.59	QP	P	
4	0.3300	25.36	10.02	35.38	49.45	-14.07	AVG	P	
5	0.8834	35.49	10.06	45.55	56.00	-10.45	QP	P	
6	0.8834	24.62	10.06	34.68	46.00	-11.32	AVG	P	
7	1.7835	24.07	10.07	34.14	56.00	-21.86	QP	P	
8	1.7835	8.43	10.07	18.50	46.00	-27.50	AVG	P	
9	4.9604	21.81	10.05	31.86	56.00	-24.14	QP	P	
10	4.9604	9.55	10.05	19.60	46.00	-26.40	AVG	P	
11	13.7714	33.43	9.99	43.42	60.00	-16.58	QP	P	
12	13.7714	17.94	9.99	27.93	50.00	-22.07	AVG	P	

6.2 6dB Bandwidth

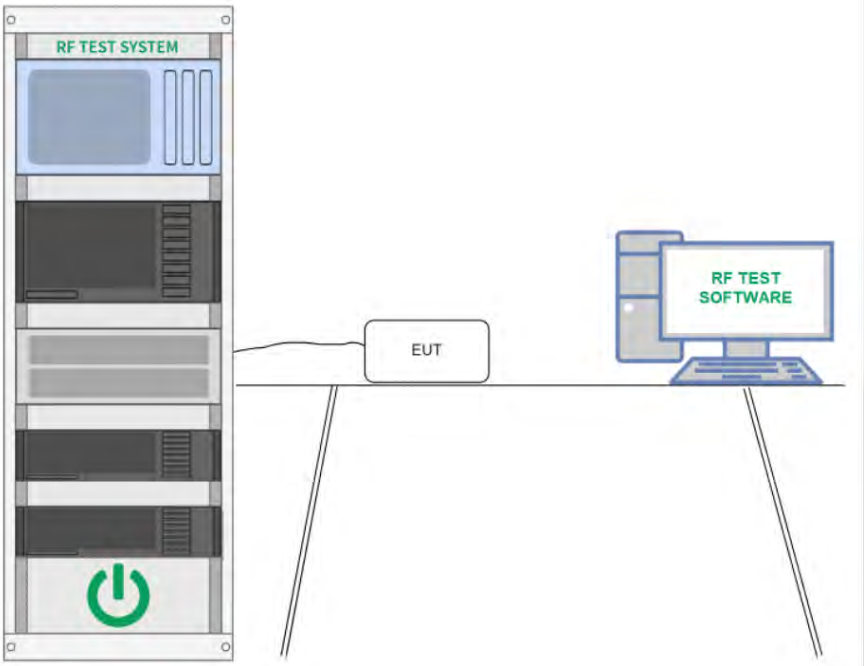
6.2.1 Test Specification

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “−6 dB down amplitude”. If a marker is below this “−6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.2.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3, TM4
Final test mode:	TM1, TM2, TM3, TM4

6.2.3 Test Setup Diagram



6.2.4 Test Data

PASS.

Please refer to Annex D for details.

6.3 Maximum Conducted Output Power

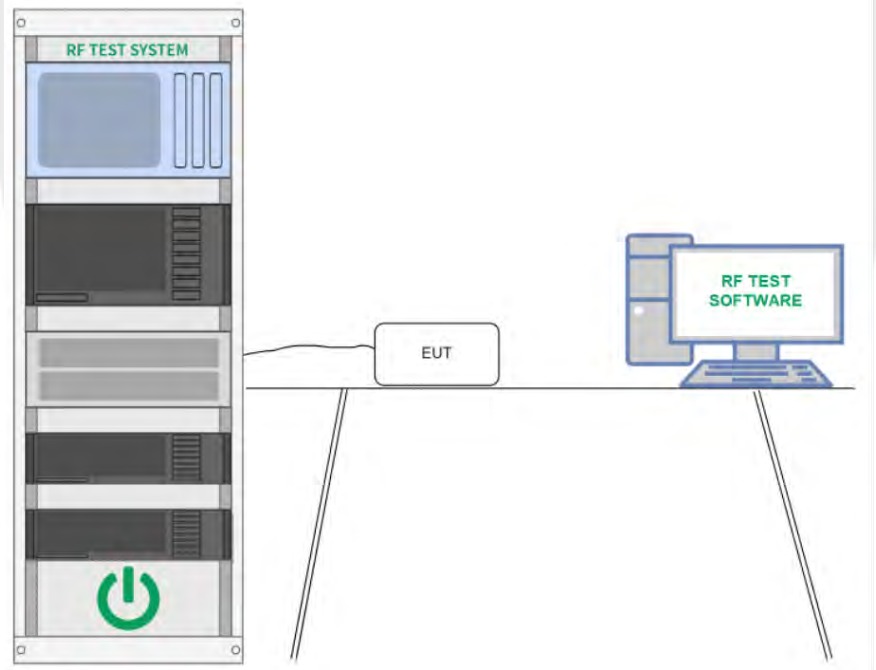
6.3.1 Test Specification

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.9.1 Maximum peak conducted output power

6.3.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3, TM4
Final test mode:	TM1, TM2, TM3, TM4

6.3.3 Test Setup Diagram



6.3.4 Test Data

PASS.

Please refer to Annex D for details.

6.4 Power Spectral Density

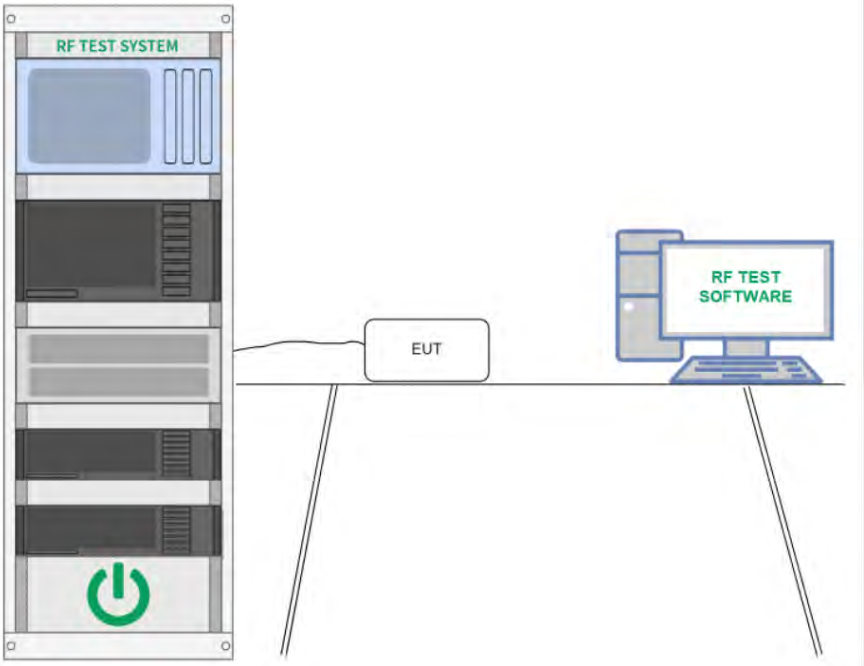
6.4.1 Test Specification

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10, Maximum power spectral density level in the fundamental emission

6.4.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3, TM4
Final test mode:	TM1, TM2, TM3, TM4

6.4.3 Test Setup Diagram



6.4.4 Test Data

PASS.

Please refer to Annex D for details.

6.5 Emissions in non-restricted frequency bands

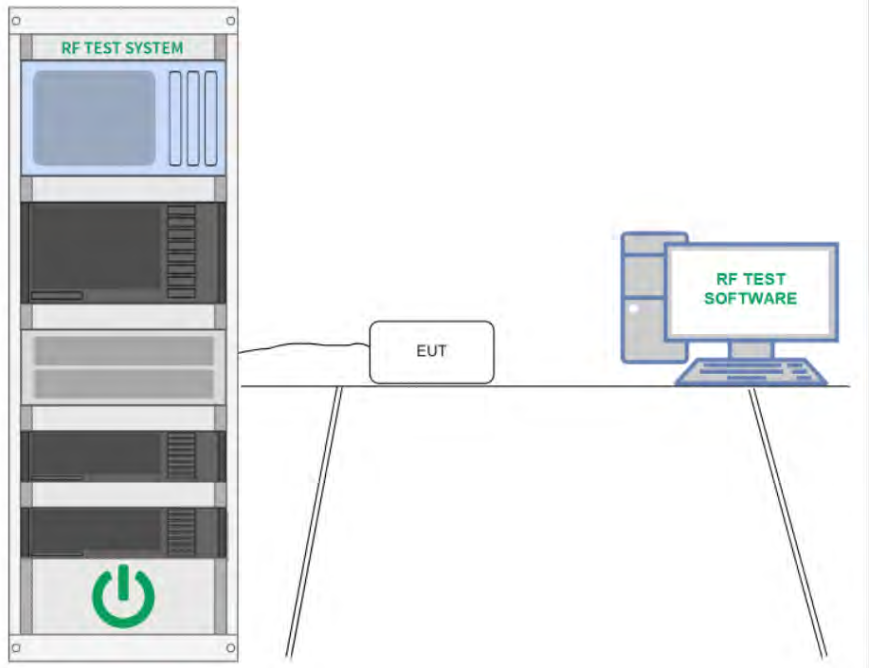
6.5.1 Test Specification

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), 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.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3, TM4
Final test mode:	TM1, TM2, TM3, TM4

6.5.3 Test Setup Diagram



6.5.4 Test Data

PASS.

Please refer to Annex D for details.

6.6 Band edge emissions (Radiated)

6.6.1 Test Specification

Test Requirement:	Refer to 47 CFR 15.247(d), 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)).
Test Limit:	

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

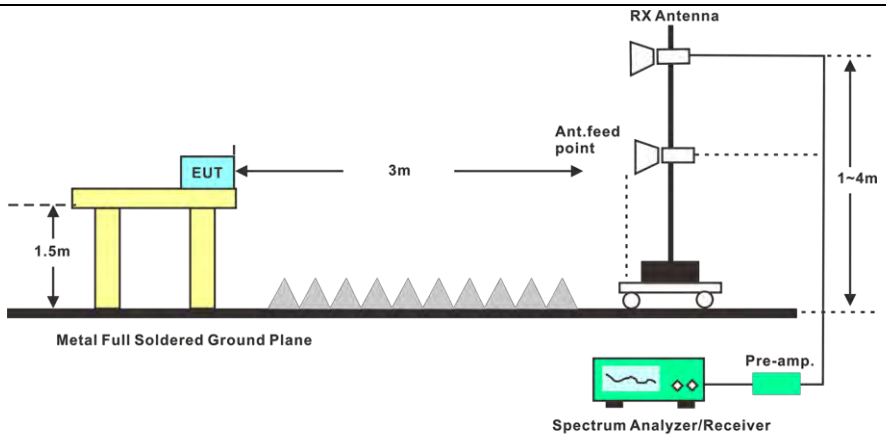
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10.5.2

6.6.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3, TM4
Final test mode:	TM1, TM2, TM3, TM4

6.6.3 Test Setup Diagram



6.6.4 Test Data

PASS.

Please refer to the following pages.

Address: 101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Website: www.eu-test.com
Tel: (86)-755-2357-9714 Email: Service@eu-test.com

Worst case: ANT1 for b/g; MIMO for n20/n40
Band Edge Emissions (Restricted frequency bands):

Test Mode: 802.11b					CH Low: 2412 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	2310.00	43.63	-2.81	40.82	74.00	-33.18	PK	PASS
H	2390.00	45.78	-2.69	43.09	74.00	-30.91	PK	PASS
H	**2400.00	61.46	-2.68	58.78	74.00	-15.22	PK	PASS
V	2310.00	44.08	-2.81	41.27	74.00	-32.73	PK	PASS
V	2390.00	45.61	-2.69	42.92	74.00	-31.08	PK	PASS
V	**2400.00	60.99	-2.68	58.31	74.00	-15.69	PK	PASS
H	2310.00	34.36	-2.81	31.55	54.00	-22.45	AV	PASS
H	2390.00	34.51	-2.69	31.82	54.00	-22.18	AV	PASS
H	**2400.00	46.96	-2.68	44.28	54.00	-9.72	AV	PASS
V	2310.00	32.68	-2.81	29.87	54.00	-24.13	AV	PASS
V	2390.00	34.13	-2.69	31.44	54.00	-22.56	AV	PASS
V	**2400.00	45.77	-2.68	43.09	54.00	-10.91	AV	PASS

Test Mode: 802.11b					CH High: 2462 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	**2483.50	46.82	-2.56	44.26	74.00	-29.74	PK	PASS
H	2500.00	51.29	-2.54	48.75	74.00	-25.25	PK	PASS
V	**2483.50	49.14	-2.56	46.58	74.00	-27.42	PK	PASS
V	2500.00	51.69	-2.54	49.15	74.00	-24.85	PK	PASS
H	**2483.50	37.44	-2.56	34.88	54.00	-19.12	AV	PASS
H	2500.00	40.17	-2.54	37.63	54.00	-16.37	AV	PASS
V	**2483.50	38.89	-2.56	36.33	54.00	-17.67	AV	PASS
V	2500.00	41.24	-2.54	38.70	54.00	-15.30	AV	PASS

Remark:
1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

Band Edge Emissions (Restricted frequency bands):

Test Mode: 802.11g					CH Low: 2412 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	2310.00	44.67	-2.81	41.86	74.00	-32.14	PK	PASS
H	2390.00	47.81	-2.69	45.12	74.00	-28.88	PK	PASS
H	**2400.00	62.41	-2.68	59.73	74.00	-14.27	PK	PASS
V	2310.00	45.17	-2.81	42.36	74.00	-31.64	PK	PASS
V	2390.00	46.70	-2.69	44.01	74.00	-29.99	PK	PASS
V	**2400.00	61.19	-2.68	58.51	74.00	-15.49	PK	PASS
H	2310.00	32.73	-2.81	29.92	54.00	-24.08	AV	PASS
H	2390.00	35.72	-2.69	33.03	54.00	-20.97	AV	PASS
H	**2400.00	47.48	-2.68	44.80	54.00	-9.20	AV	PASS
V	2310.00	32.57	-2.81	29.76	54.00	-24.24	AV	PASS
V	2390.00	36.89	-2.69	34.20	54.00	-19.80	AV	PASS
V	**2400.00	46.99	-2.68	44.31	54.00	-9.69	AV	PASS

Test Mode: 802.11g					CH High: 2462 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	**2483.50	48.72	-2.56	46.16	74.00	-27.84	PK	PASS
H	2500.00	49.71	-2.54	47.17	74.00	-26.83	PK	PASS
V	**2483.50	47.39	-2.56	44.83	74.00	-29.17	PK	PASS
V	2500.00	48.26	-2.54	45.72	74.00	-28.28	PK	PASS
H	**2483.50	36.60	-2.56	34.04	54.00	-19.96	AV	PASS
H	2500.00	40.55	-2.54	38.01	54.00	-15.99	AV	PASS
V	**2483.50	37.32	-2.56	34.76	54.00	-19.24	AV	PASS
V	2500.00	38.91	-2.54	36.37	54.00	-17.63	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

Band Edge Emissions (Restricted frequency bands):

Test Mode: 802.11n(HT20)					CH Low: 2412 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	2310.00	44.17	-2.81	41.36	74.00	-32.64	PK	PASS
H	2390.00	49.00	-2.69	46.31	74.00	-27.69	PK	PASS
H	**2400.00	64.23	-2.68	61.55	74.00	-12.45	PK	PASS
V	2310.00	43.85	-2.81	41.04	74.00	-32.96	PK	PASS
V	2390.00	47.88	-2.69	45.19	74.00	-28.81	PK	PASS
V	**2400.00	62.17	-2.68	59.49	74.00	-14.51	PK	PASS
H	2310.00	32.41	-2.81	29.60	54.00	-24.40	AV	PASS
H	2390.00	35.63	-2.69	32.94	54.00	-21.06	AV	PASS
H	**2400.00	49.21	-2.68	46.53	54.00	-7.47	AV	PASS
V	2310.00	34.64	-2.81	31.83	54.00	-22.17	AV	PASS
V	2390.00	37.43	-2.69	34.74	54.00	-19.26	AV	PASS
V	**2400.00	47.53	-2.68	44.85	54.00	-9.15	AV	PASS

Test Mode: 802.11n(HT20)					CH High: 2462 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	**2483.50	45.49	-2.56	42.93	74.00	-31.07	PK	PASS
H	2500.00	51.35	-2.54	48.81	74.00	-25.19	PK	PASS
V	**2483.50	48.28	-2.56	45.72	74.00	-28.28	PK	PASS
V	2500.00	50.30	-2.54	47.76	74.00	-26.24	PK	PASS
H	**2483.50	38.77	-2.56	36.21	54.00	-17.79	AV	PASS
H	2500.00	39.63	-2.54	37.09	54.00	-16.91	AV	PASS
V	**2483.50	39.22	-2.56	36.66	54.00	-17.34	AV	PASS
V	2500.00	41.05	-2.54	38.51	54.00	-15.49	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

Band Edge Emissions (Restricted frequency bands):

Test Mode: 802.11n(HT40)					CH Low: 2422 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	2310.00	45.59	-2.81	42.78	74.00	-31.22	PK	PASS
H	2390.00	47.74	-2.69	45.05	74.00	-28.95	PK	PASS
H	**2400.00	61.42	-2.68	58.74	74.00	-15.26	PK	PASS
V	2310.00	43.97	-2.81	41.16	74.00	-32.84	PK	PASS
V	2390.00	46.08	-2.69	43.39	74.00	-30.61	PK	PASS
V	**2400.00	63.84	-2.68	61.16	74.00	-12.84	PK	PASS
H	2310.00	32.83	-2.81	30.02	54.00	-23.98	AV	PASS
H	2390.00	36.06	-2.69	33.37	54.00	-20.63	AV	PASS
H	**2400.00	49.11	-2.68	46.43	54.00	-7.57	AV	PASS
V	2310.00	31.18	-2.81	28.37	54.00	-25.63	AV	PASS
V	2390.00	34.92	-2.69	32.23	54.00	-21.77	AV	PASS
V	**2400.00	49.23	-2.68	46.55	54.00	-7.45	AV	PASS

Test Mode: 802.11n(HT40)					CH High: 2452 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
H	**2483.50	45.57	-2.56	43.01	74.00	-30.99	PK	PASS
H	2500.00	51.26	-2.54	48.72	74.00	-25.28	PK	PASS
V	**2483.50	48.81	-2.56	46.25	74.00	-27.75	PK	PASS
V	2500.00	51.12	-2.54	48.58	74.00	-25.42	PK	PASS
H	**2483.50	36.81	-2.56	34.25	54.00	-19.75	AV	PASS
H	2500.00	41.52	-2.54	38.98	54.00	-15.02	AV	PASS
V	**2483.50	38.36	-2.56	35.80	54.00	-18.20	AV	PASS
V	2500.00	41.61	-2.54	39.07	54.00	-14.93	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

6.7 Emissions in frequency bands (below 1GHz)

6.7.1 Test Specification

Test Requirement:	Refer to 47 CFR 15.247(d), 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)).
Test Limit:	

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4

6.7.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3, TM4
Final test mode:	TM1

6.7.3 Test Setup Diagram

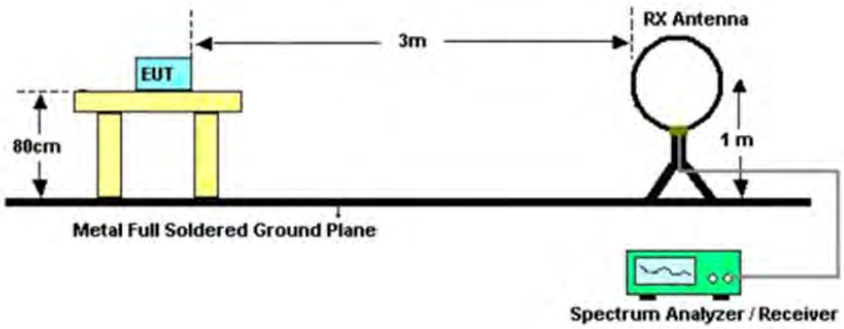


Figure 1. Below 30MHz

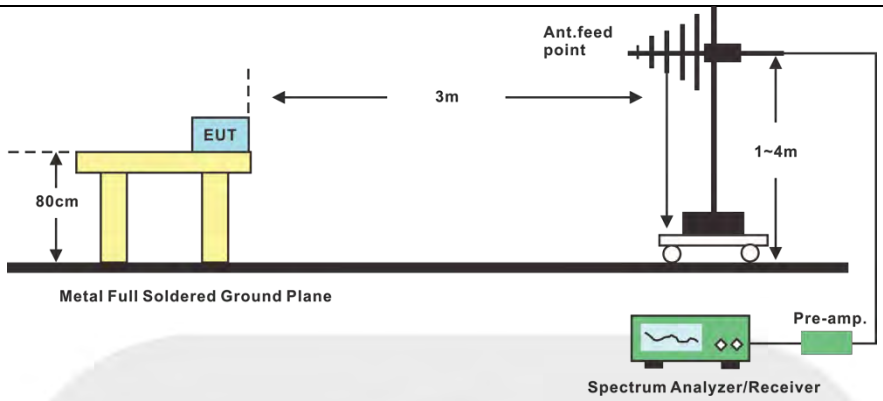


Figure 2. 30MHz to 1GHz

6.7.4 Test Data

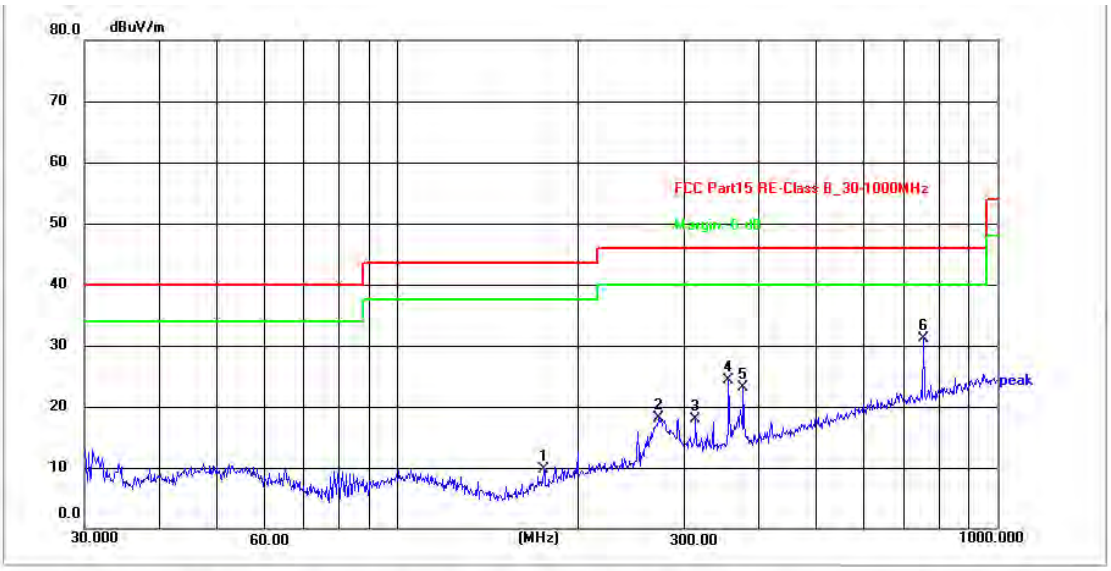
PASS.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, for 30MHz to 1000MHz, pre-scan all modulations, and found the 802.11b modulation Low channel which is the worst case, only the worst case is recorded in the report.

Emissions in frequency bands (below 1GHz) Test Data

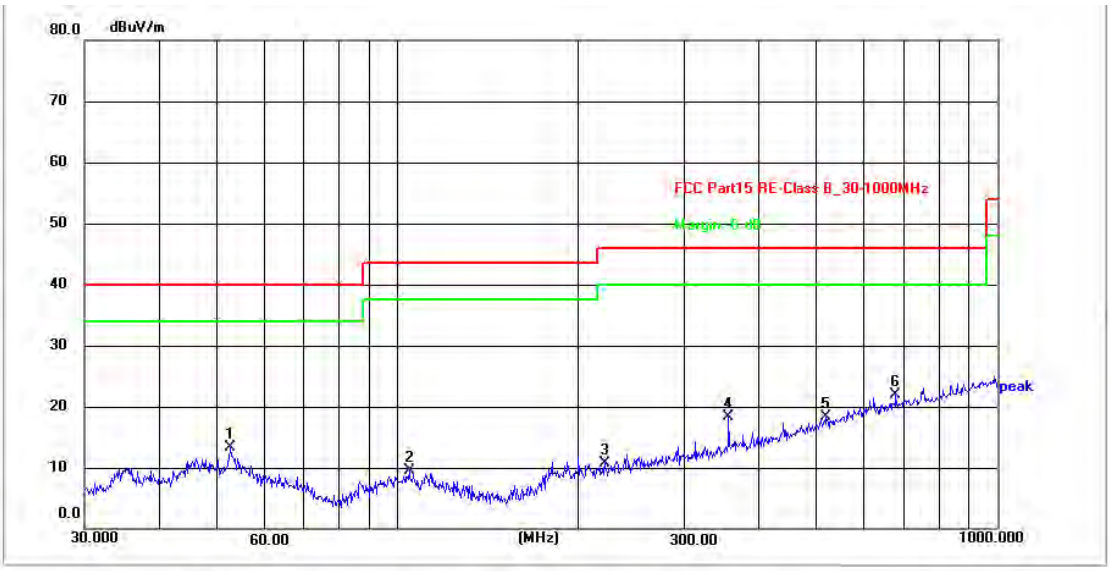
TM1 (SISO-ant2) / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	175.0368	29.71	-20.03	9.68	43.50	-33.82	QP	P	
2	272.2776	34.28	-16.24	18.04	46.00	-27.96	QP	P	
3	313.2760	33.09	-15.22	17.87	46.00	-28.13	QP	P	
4	355.4273	38.31	-14.02	24.29	46.00	-21.71	QP	P	
5	375.9385	36.66	-13.47	23.19	46.00	-22.81	QP	P	
6 *	752.7432	37.55	-6.43	31.12	46.00	-14.88	QP	P	

Emissions in frequency bands (below 1GHz) Test Data

TM1 (SISO-ant2) / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	52.3912	30.71	-17.50	13.21	40.00	-26.79	QP	P	
2	104.5361	28.41	-18.88	9.53	43.50	-33.97	QP	P	
3	221.3921	28.35	-17.71	10.64	46.00	-35.36	QP	P	
4	355.4273	32.28	-14.04	18.24	46.00	-27.76	QP	P	
5	519.0649	28.36	-10.07	18.29	46.00	-27.71	QP	P	
6 *	677.5798	28.93	-7.12	21.81	46.00	-24.19	QP	P	

6.8 Emissions in frequency bands (above 1GHz)

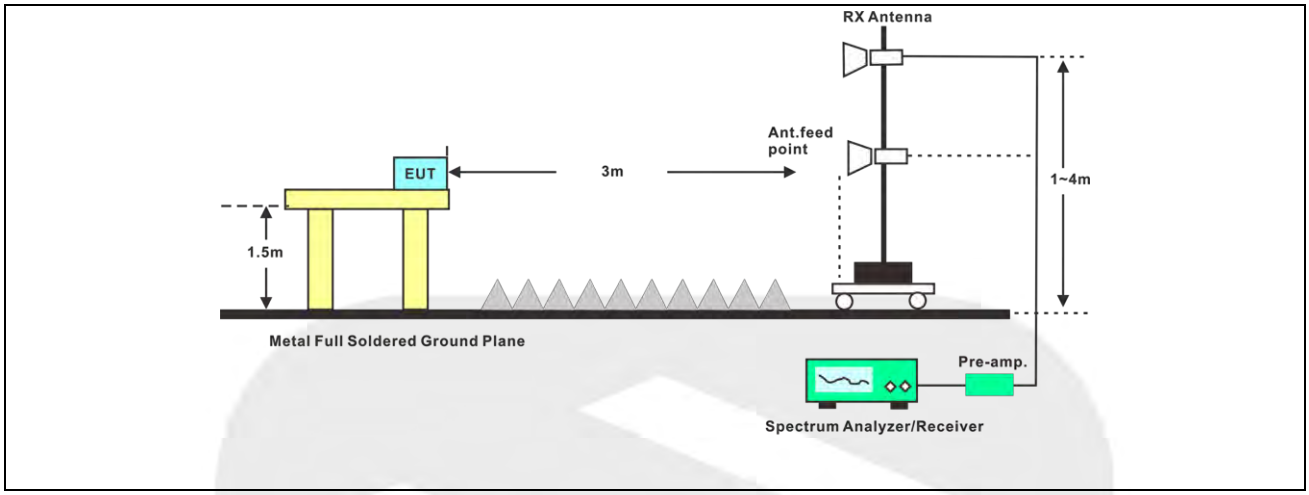
6.8.1 Test Specification

<table>
<tr><td>Test Requirement:</td><td>Refer to 47 CFR 15.247(d), 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)).</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4
KDB 558074 D01 15.247 Meas Guidance v05r02</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4</td></tr>
</table>

6.8.2 E.U.T. Operation

Pre test mode:	TM1, TM2, TM3, TM4
Final test mode:	TM3

6.8.3 Test Setup Diagram



6.8.4 Test Data

PASS.

During the test, for 1GHz- 25GHz, pre-scan all modulations, and found the MIMO antenna 802.11n(HT20) modulation which is the worst case, only the worst case is recorded in the report.

Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 802.11n(HT20)					CH Low: 2412 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4824.56	41.83	4.74	46.57	74.00	-27.43	PK	PASS
V	7236.23	33.85	9.84	43.69	74.00	-30.31	PK	PASS
V	9648.35	28.03	13.18	41.21	74.00	-32.80	PK	PASS
V	12060.51	*	*	*	74.00	*	PK	PASS
V	14472.44	*	*	*	74.00	*	PK	PASS
V	16884.61	*	*	*	74.00	*	PK	PASS
H	4824.67	42.74	4.74	47.48	74.00	-26.53	PK	PASS
H	7236.17	35.15	9.84	44.99	74.00	-29.02	PK	PASS
H	9648.16	30.81	13.18	43.99	74.00	-30.02	PK	PASS
H	12060.16	*	*	*	74.00	*	PK	PASS
H	14472.46	*	*	*	74.00	*	PK	PASS
H	16884.70	*	*	*	74.00	*	PK	PASS
V	4824.50	30.36	4.74	35.10	54.00	-18.91	AV	PASS
V	7236.51	24.32	9.84	34.16	54.00	-19.84	AV	PASS
V	9648.31	19.85	13.18	33.03	54.00	-20.98	AV	PASS
V	12060.41	*	*	*	54.00	*	AV	PASS
V	14472.91	*	*	*	54.00	*	AV	PASS
V	16884.52	*	*	*	54.00	*	AV	PASS
H	4824.07	32.91	4.74	37.65	54.00	-16.35	AV	PASS
H	7236.17	24.43	9.84	34.27	54.00	-19.73	AV	PASS
H	9648.16	17.62	13.18	30.80	54.00	-23.21	AV	PASS
H	12060.16	*	*	*	54.00	*	AV	PASS
H	14472.46	*	*	*	54.00	*	AV	PASS
H	16884.70	*	*	*	54.00	*	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 802.11n(HT20)					CH Middle: 2437 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4874.25	42.02	4.90	46.92	74.00	-27.08	PK	PASS
V	7311.17	33.14	9.83	42.97	74.00	-31.03	PK	PASS
V	9748.09	28.13	13.21	41.34	74.00	-32.66	PK	PASS
V	12185.65	*	*	*	74.00	*	PK	PASS
V	14622.94	*	*	*	74.00	*	PK	PASS
V	17059.00	*	*	*	74.00	*	PK	PASS
H	4874.81	42.36	4.90	47.26	74.00	-26.75	PK	PASS
H	7311.08	35.42	9.83	45.25	74.00	-28.75	PK	PASS
H	9748.07	30.34	13.21	43.55	74.00	-30.45	PK	PASS
H	12185.44	*	*	*	74.00	*	PK	PASS
H	14622.71	*	*	*	74.00	*	PK	PASS
H	17059.44	*	*	*	74.00	*	PK	PASS
V	4874.22	31.07	4.90	35.97	54.00	-18.03	AV	PASS
V	7311.61	23.56	9.83	33.39	54.00	-20.61	AV	PASS
V	9748.35	19.54	13.21	32.75	54.00	-21.26	AV	PASS
V	12185.88	*	*	*	54.00	*	AV	PASS
V	14622.72	*	*	*	54.00	*	AV	PASS
V	17059.61	*	*	*	54.00	*	AV	PASS
H	4874.81	30.61	4.90	35.51	54.00	-18.50	AV	PASS
H	7311.08	24.49	9.83	34.32	54.00	-19.68	AV	PASS
H	9748.07	19.92	13.21	33.13	54.00	-20.88	AV	PASS
H	12185.44	*	*	*	54.00	*	AV	PASS
H	14622.71	*	*	*	54.00	*	AV	PASS
H	17059.44	*	*	*	54.00	*	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 802.11n(HT20)					CH High: 2462 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4924.35	41.07	5.05	46.12	74.00	-27.89	PK	PASS
V	7386.70	34.23	9.83	44.06	74.00	-29.95	PK	PASS
V	9848.52	28.19	13.24	41.43	74.00	-32.58	PK	PASS
V	12310.46	*	*	*	74.00	*	PK	PASS
V	14772.69	*	*	*	74.00	*	PK	PASS
V	17234.77	*	*	*	74.00	*	PK	PASS
H	4924.25	41.25	5.05	46.30	74.00	-27.71	PK	PASS
H	7386.26	33.73	9.83	43.56	74.00	-30.44	PK	PASS
H	9848.91	30.18	13.24	43.42	74.00	-30.58	PK	PASS
H	12310.74	*	*	*	74.00	*	PK	PASS
H	14772.57	*	*	*	74.00	*	PK	PASS
H	17234.22	*	*	*	74.00	*	PK	PASS
V	4924.34	31.02	5.05	36.07	54.00	-17.93	AV	PASS
V	7386.86	23.60	9.83	33.43	54.00	-20.57	AV	PASS
V	9848.91	18.44	13.24	31.68	54.00	-22.32	AV	PASS
V	12310.67	*	*	*	54.00	*	AV	PASS
V	14772.15	*	*	*	54.00	*	AV	PASS
V	17234.94	*	*	*	54.00	*	AV	PASS
H	4924.25	31.66	5.05	36.71	54.00	-17.30	AV	PASS
H	7386.26	23.53	9.83	33.36	54.00	-20.65	AV	PASS
H	9848.91	19.17	13.24	32.41	54.00	-21.60	AV	PASS
H	12310.74	*	*	*	54.00	*	AV	PASS
H	14772.57	*	*	*	54.00	*	AV	PASS
H	17234.22	*	*	*	54.00	*	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

ANNEX A TEST SETUP PHOTOS

Please refer to the document "8433EU010719W1-ANNEX A.PDF"

ANNEX B EXTERNAL PHOTOS

Please refer to the document "8433EU010719W1-ANNEX B.PDF"

ANNEX C INTERNAL PHOTOS

Please refer to the document "8433EU010719W1-ANNEX C.PDF"

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Website: www.eu-test.com
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ANNEX D TEST DATA

1. Duty Cycle

1.1 Test Result

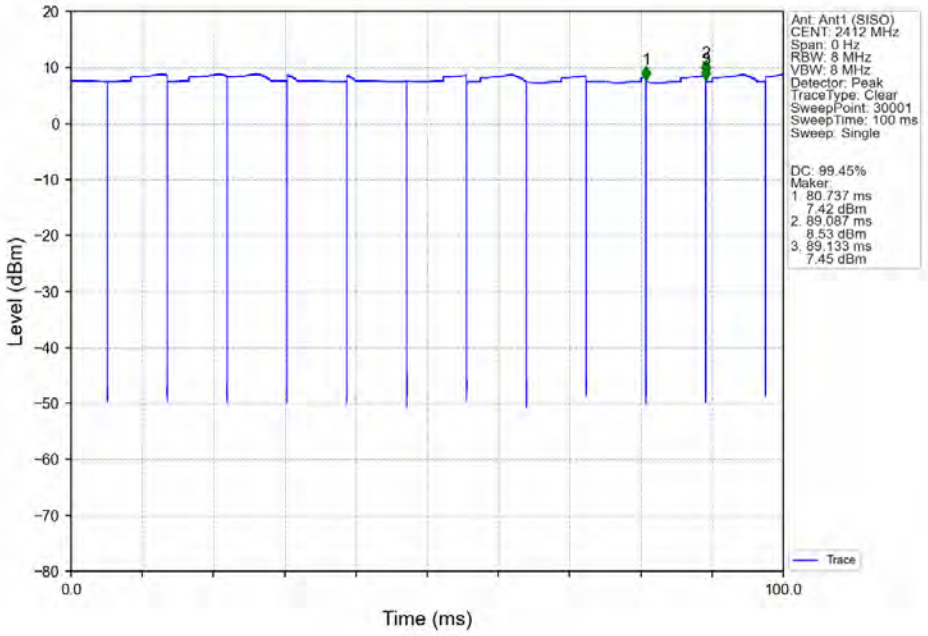
1.1.1 Ant1

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	8.350	8.396	99.45	0.02	0.04
		2437	8.353	8.400	99.44	0.02	0.04
		2462	8.350	8.397	99.44	0.02	0.04
802.11g	SISO	2412	0.149	0.196	76.02	1.19	0.03
		2437	0.149	0.196	76.02	1.19	0.21
		2462	0.149	0.196	76.02	1.19	0.08
802.11n (HT20)	SISO	2412	0.177	0.225	78.67	1.04	0.38
		2437	0.177	0.224	79.02	1.02	0.45
		2462	0.177	0.224	79.02	1.02	0.03
802.11n (HT40)	SISO	2422	0.181	0.229	79.04	1.02	0.05
		2437	0.181	0.229	79.04	1.02	0.09
		2452	0.181	0.229	79.04	1.02	0.40

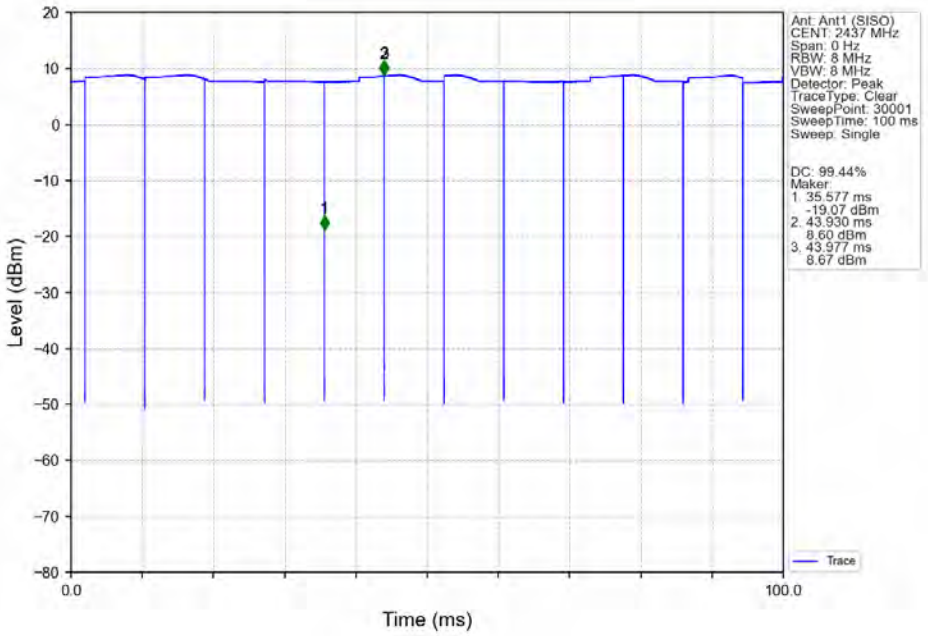
1.2 Test Graph

1.2.1 Ant1

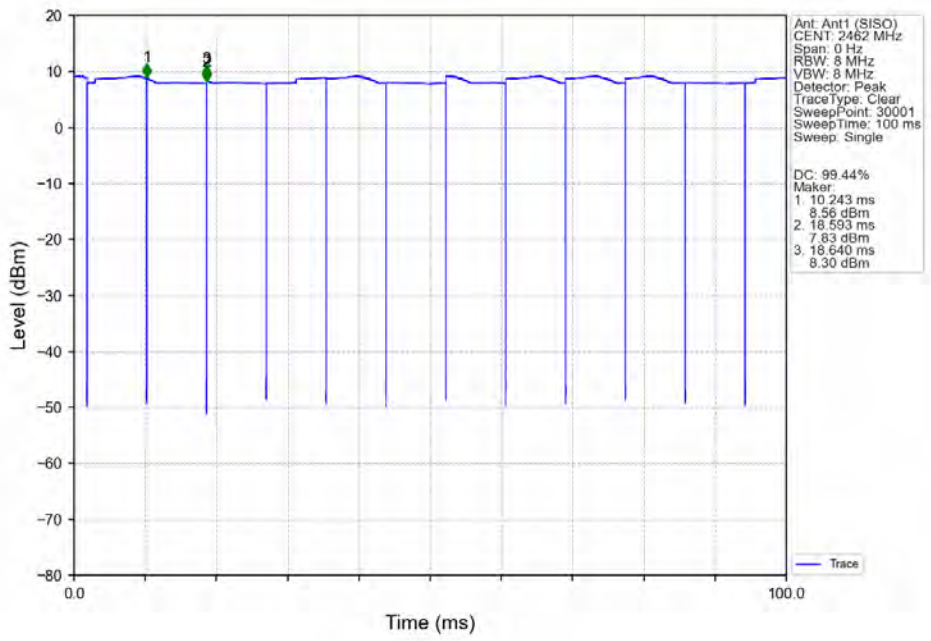
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



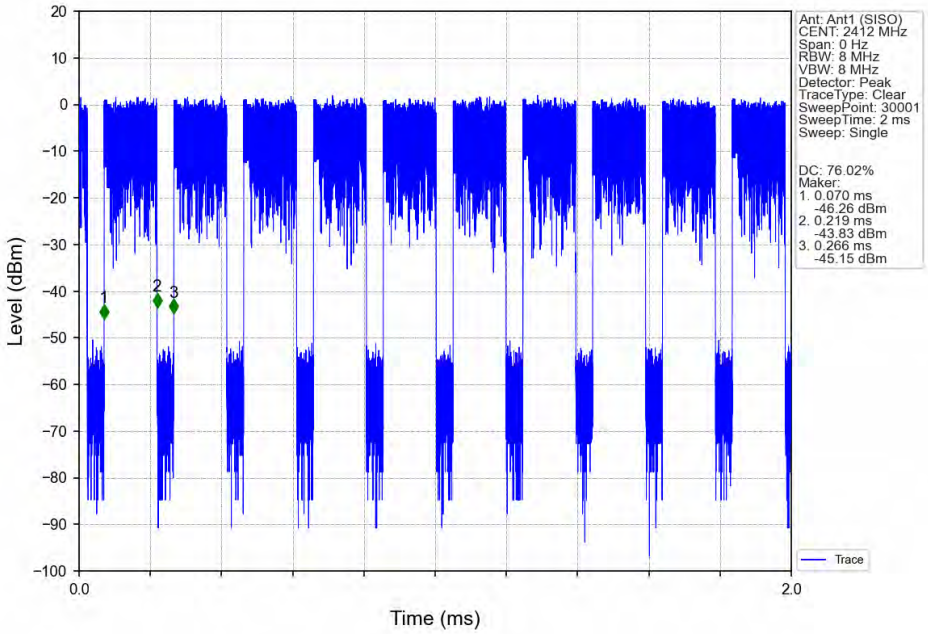
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



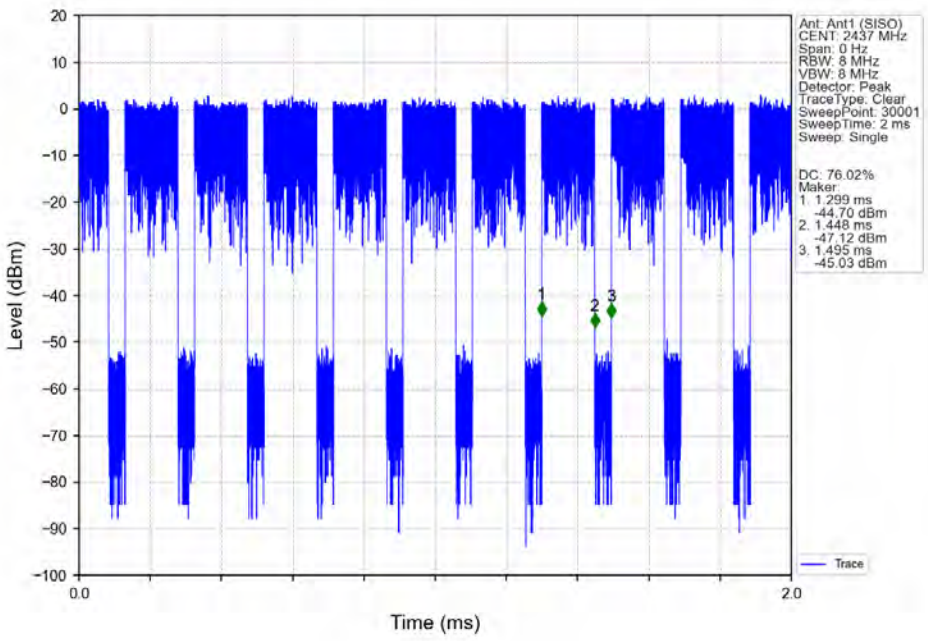
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



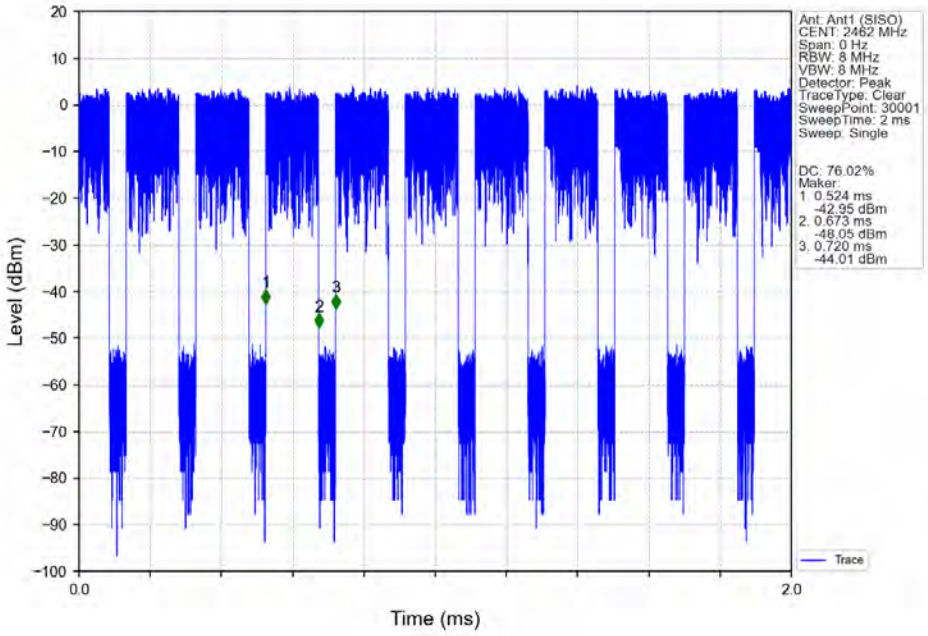
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



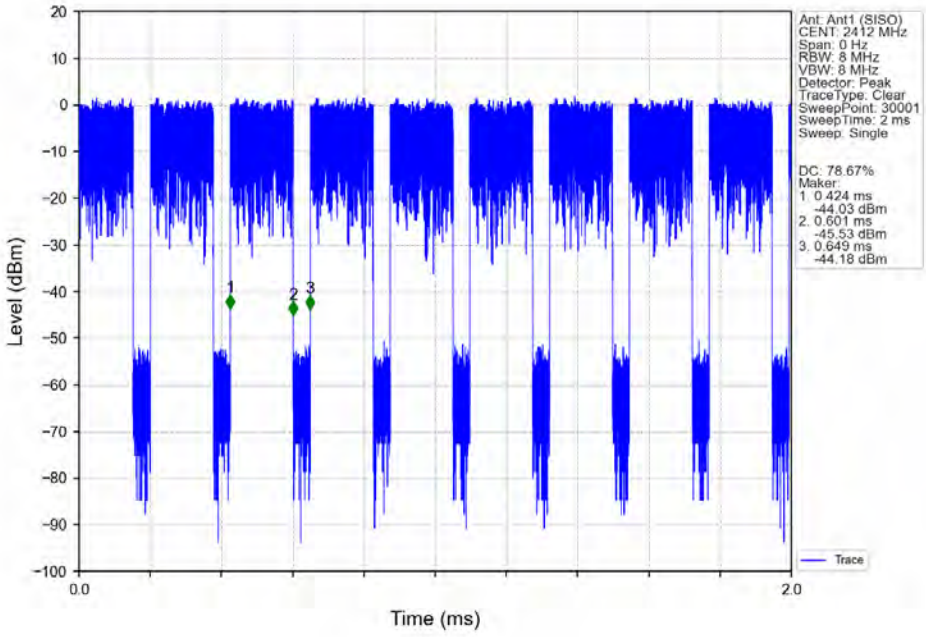
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



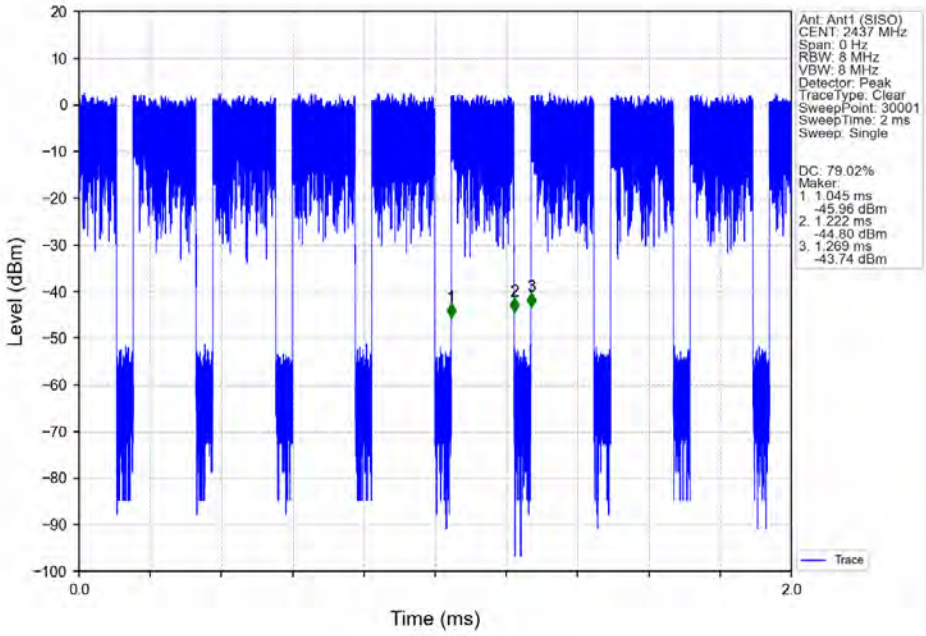
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



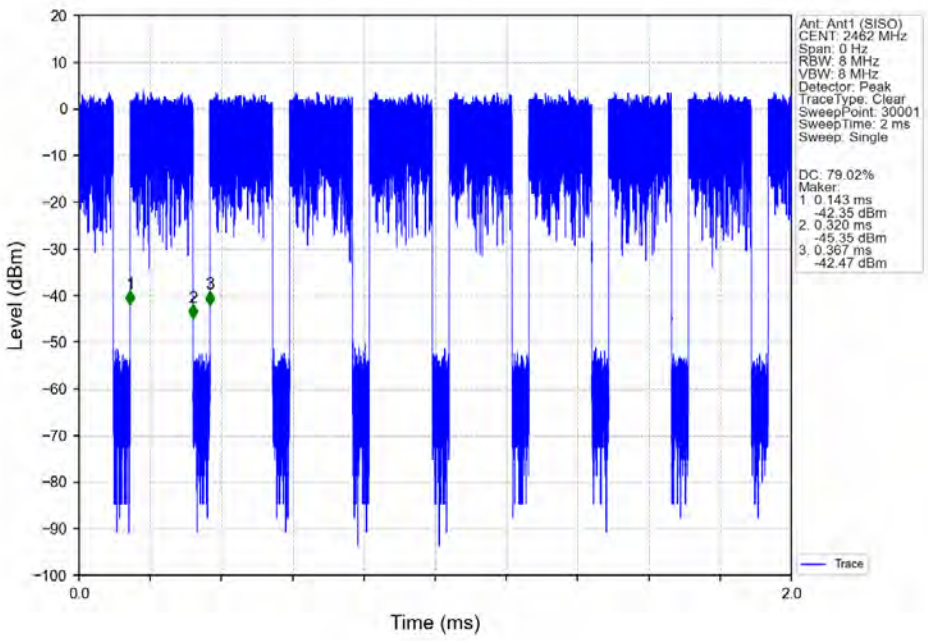
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



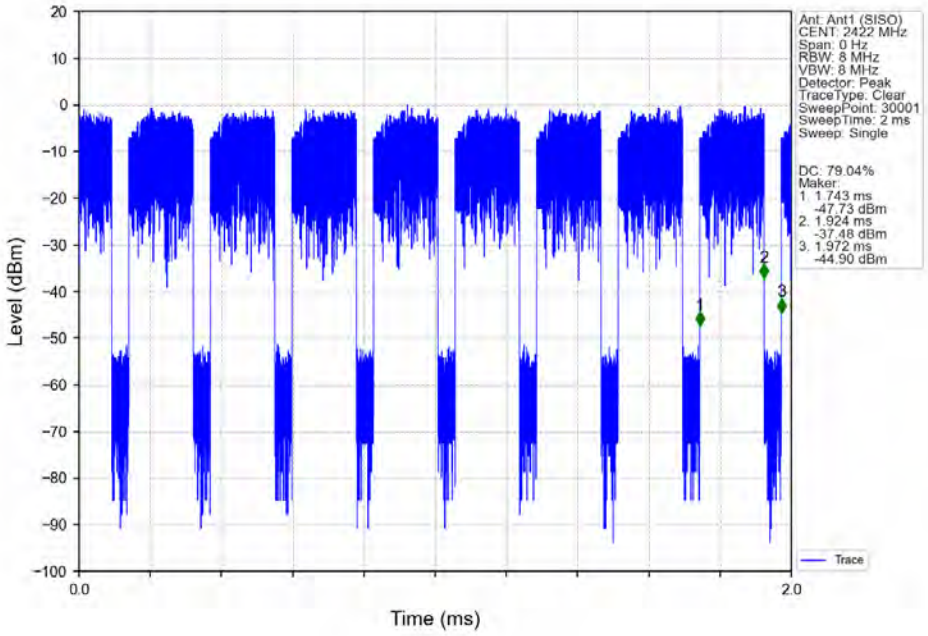
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



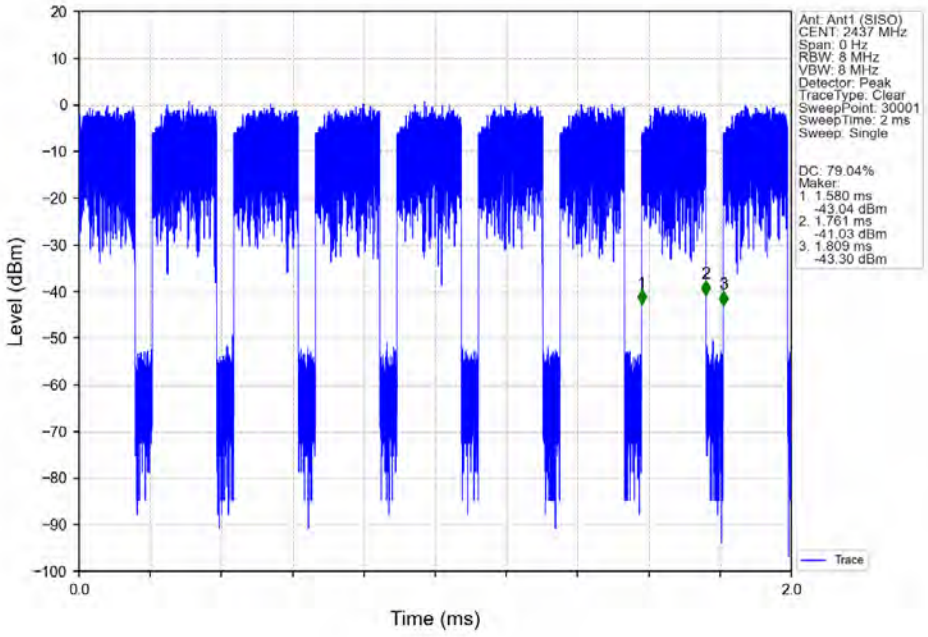
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



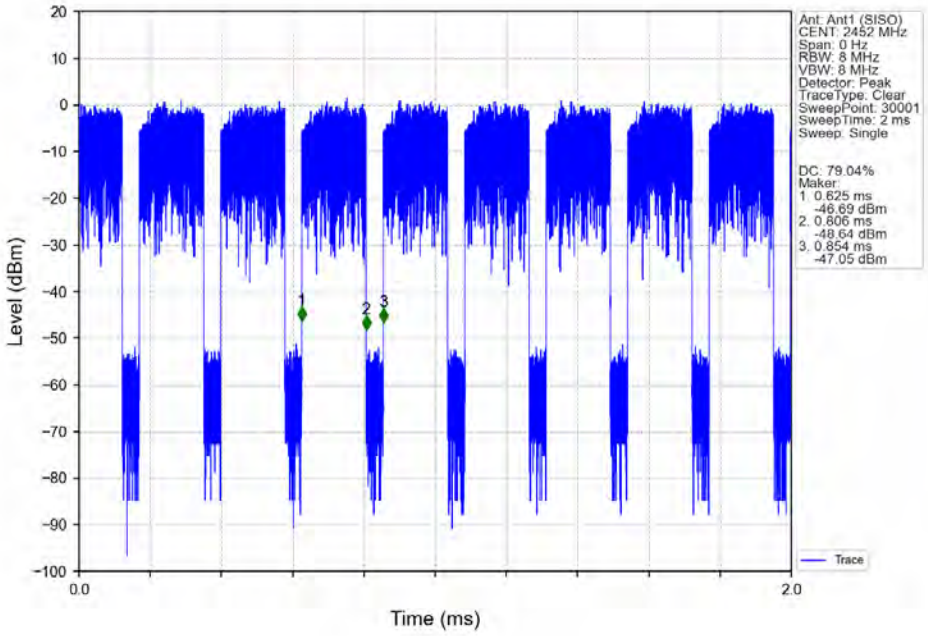
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.368	/	Pass
			2	13.372	/	Pass
		2437	1	13.407	/	Pass
			2	13.381	/	Pass
		2462	1	13.415	/	Pass
			2	13.383	/	Pass
802.11g	SISO	2412	1	16.534	/	Pass
			2	16.550	/	Pass
		2437	1	16.564	/	Pass
			2	16.555	/	Pass
		2462	1	16.543	/	Pass
			2	16.571	/	Pass
802.11n (HT20)	SISO	2412	1	17.714	/	Pass
			2	17.697	/	Pass
		2437	1	17.669	/	Pass
			2	17.699	/	Pass
		2462	1	17.664	/	Pass
			2	17.710	/	Pass
802.11n (HT40)	SISO	2422	1	36.224	/	Pass
			2	36.236	/	Pass
		2437	1	36.171	/	Pass
			2	36.192	/	Pass
		2452	1	36.172	/	Pass
			2	36.170	/	Pass

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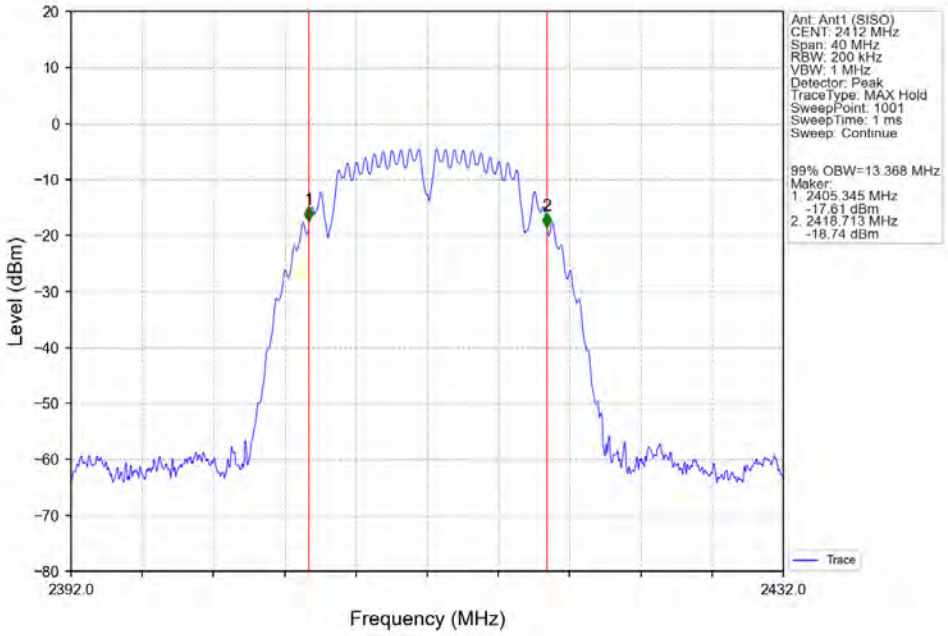
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.243	>=0.5	Pass
			2	10.242	>=0.5	Pass
		2437	1	10.239	>=0.5	Pass
			2	10.241	>=0.5	Pass
		2462	1	10.240	>=0.5	Pass
			2	10.243	>=0.5	Pass
802.11g	SISO	2412	1	16.065	>=0.5	Pass
			2	16.039	>=0.5	Pass
		2437	1	15.960	>=0.5	Pass
			2	16.010	>=0.5	Pass
		2462	1	15.983	>=0.5	Pass
			2	16.013	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.188	>=0.5	Pass
			2	16.981	>=0.5	Pass
		2437	1	17.216	>=0.5	Pass
			2	17.187	>=0.5	Pass
		2462	1	17.227	>=0.5	Pass
			2	17.049	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.580	>=0.5	Pass
			2	35.746	>=0.5	Pass
		2437	1	35.749	>=0.5	Pass
			2	35.588	>=0.5	Pass
		2452	1	35.423	>=0.5	Pass
			2	35.387	>=0.5	Pass

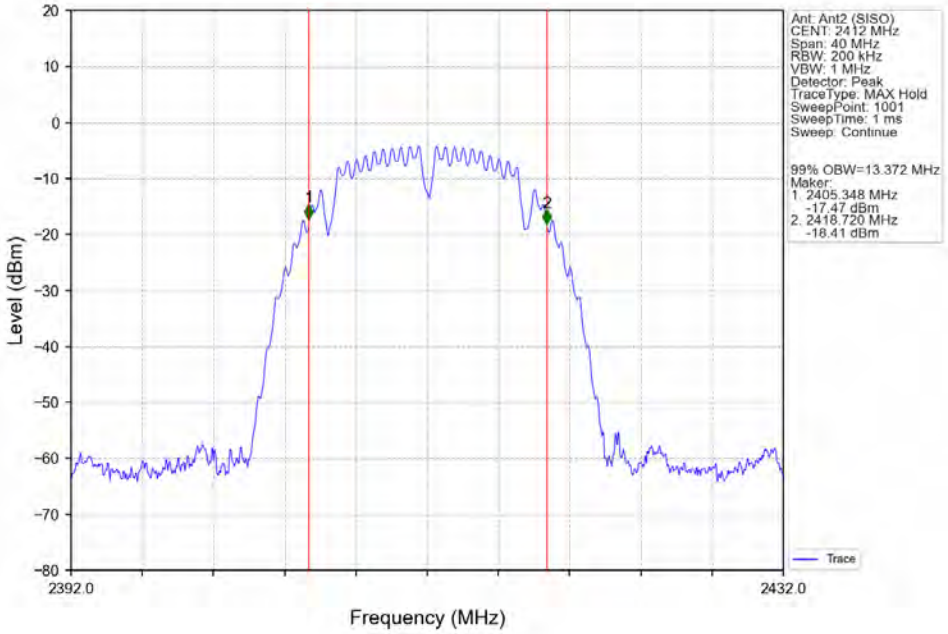
2.2 Test Graph

2.2.1 OBW

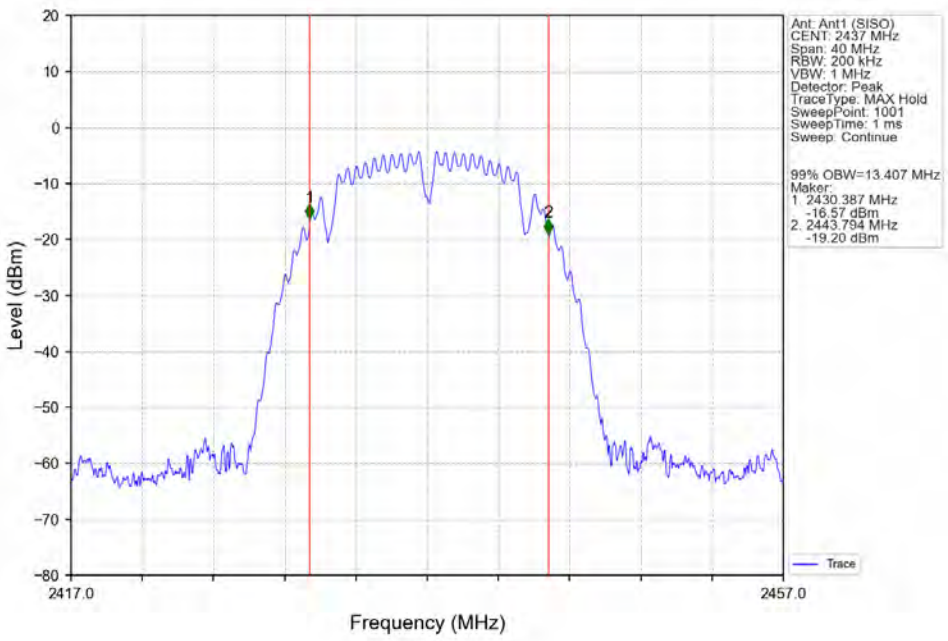
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



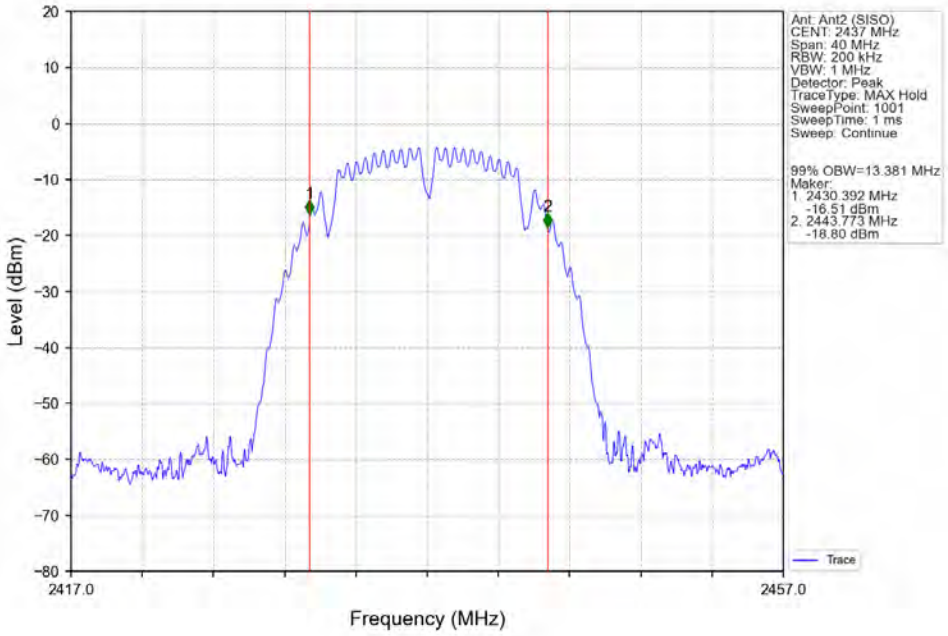
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



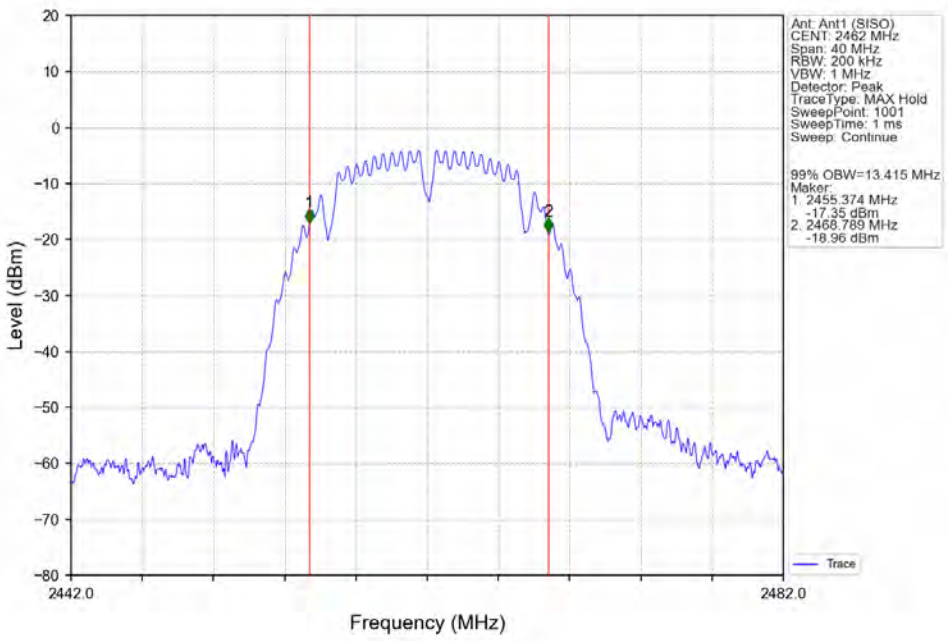
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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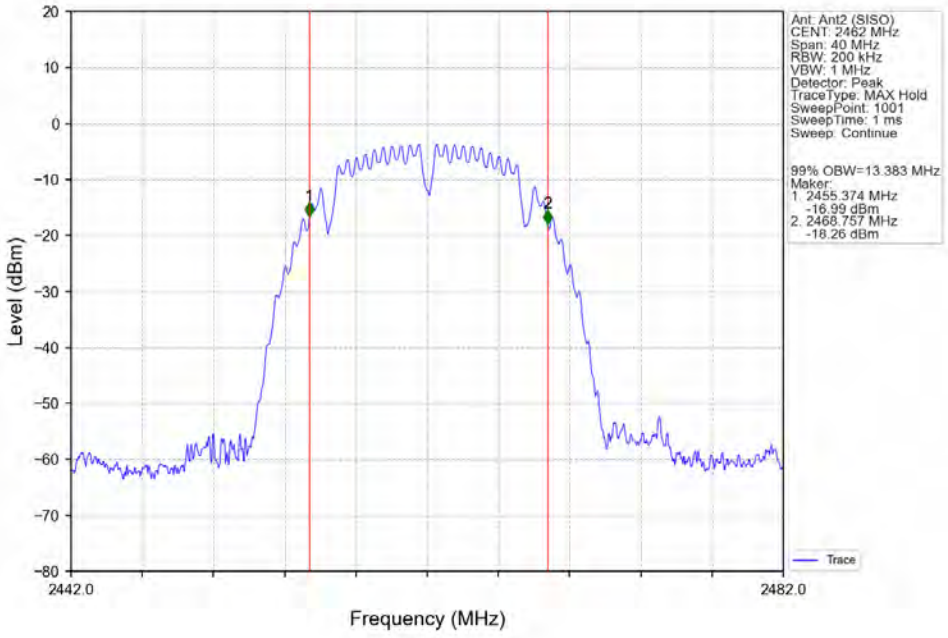

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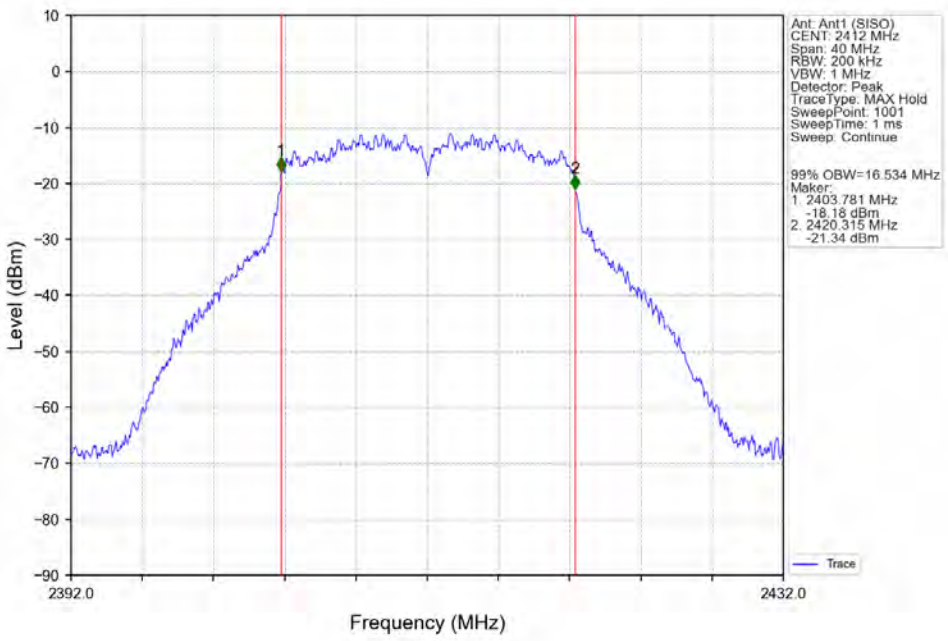

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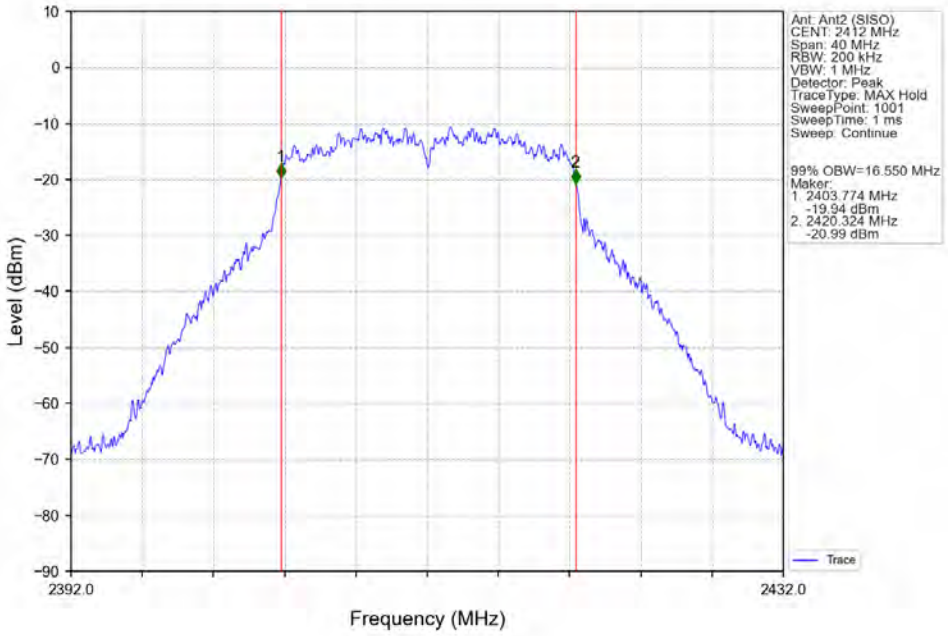

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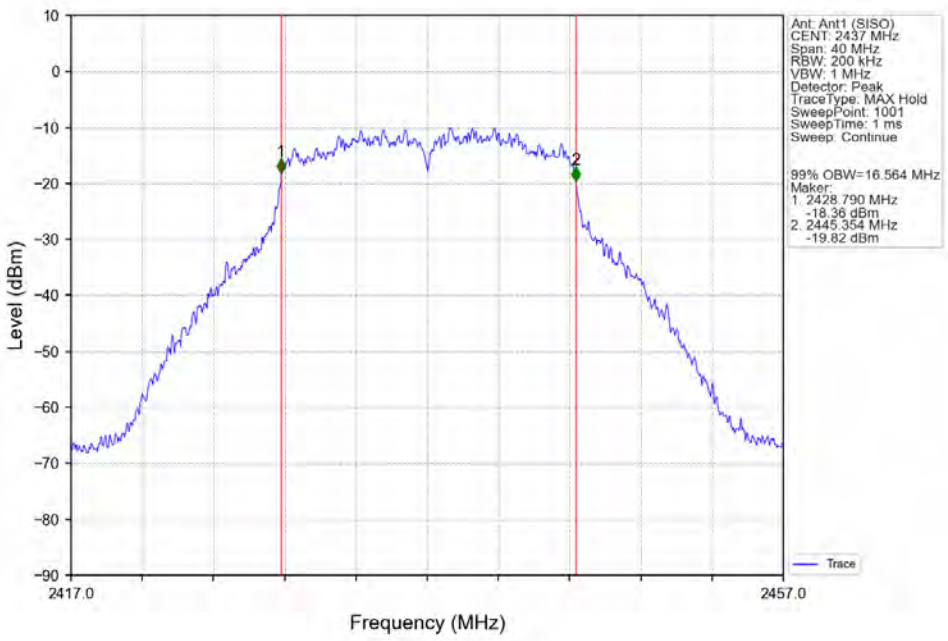

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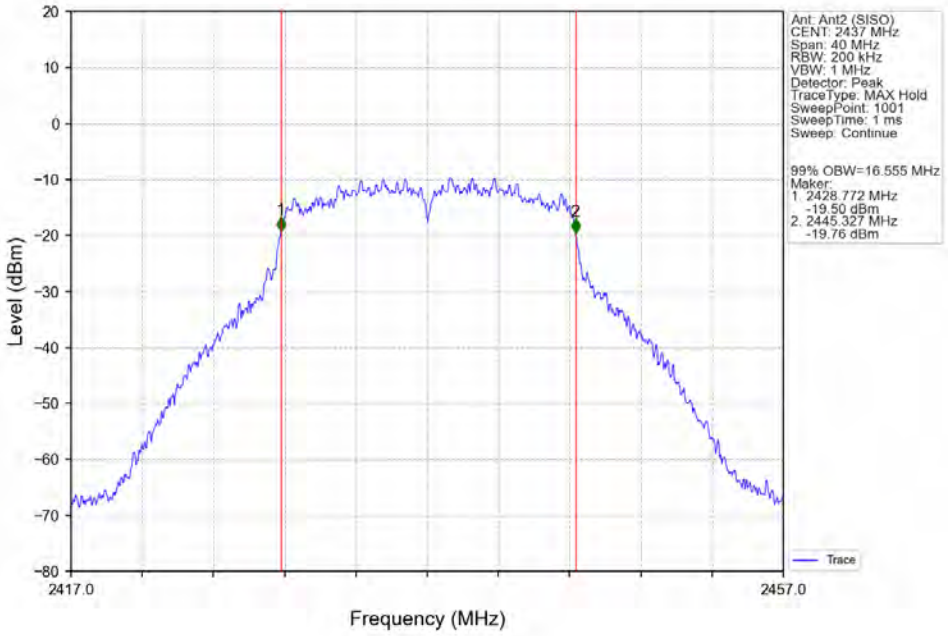

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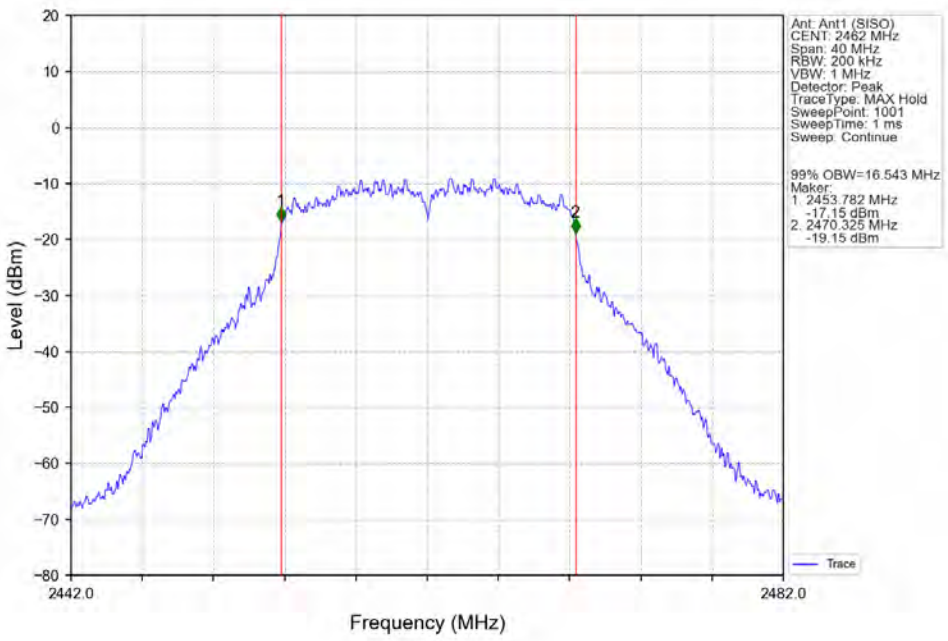

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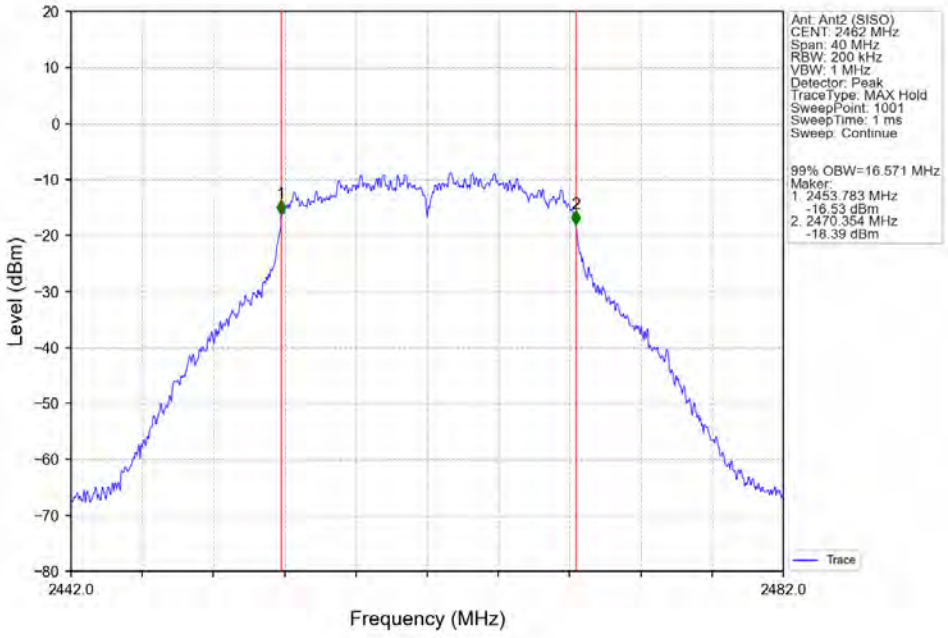

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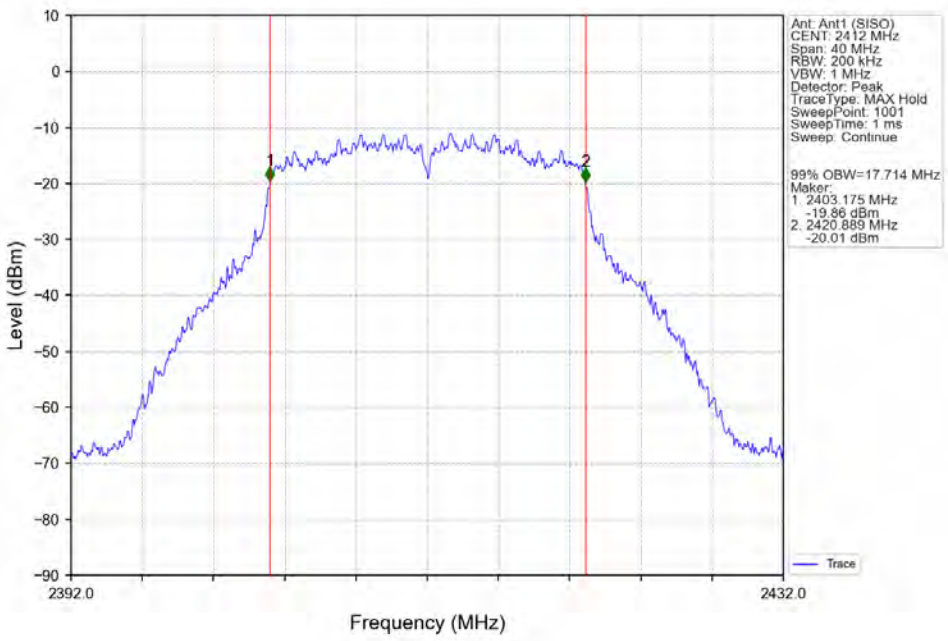

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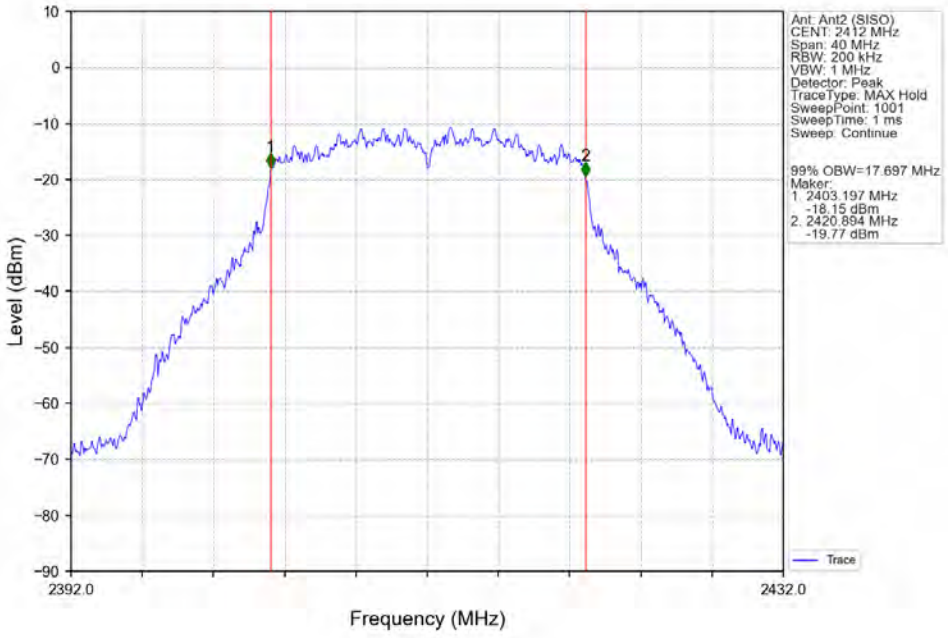

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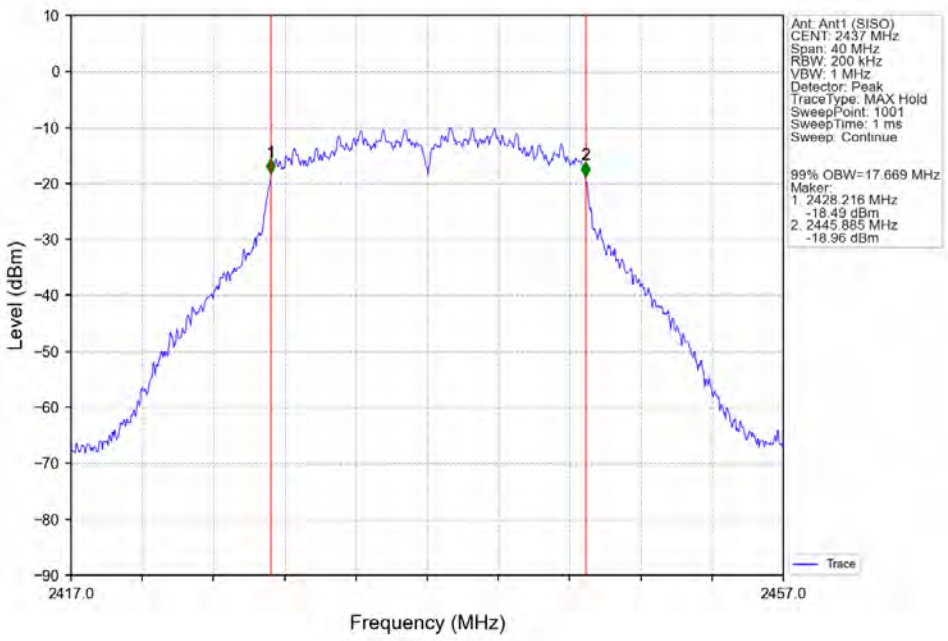

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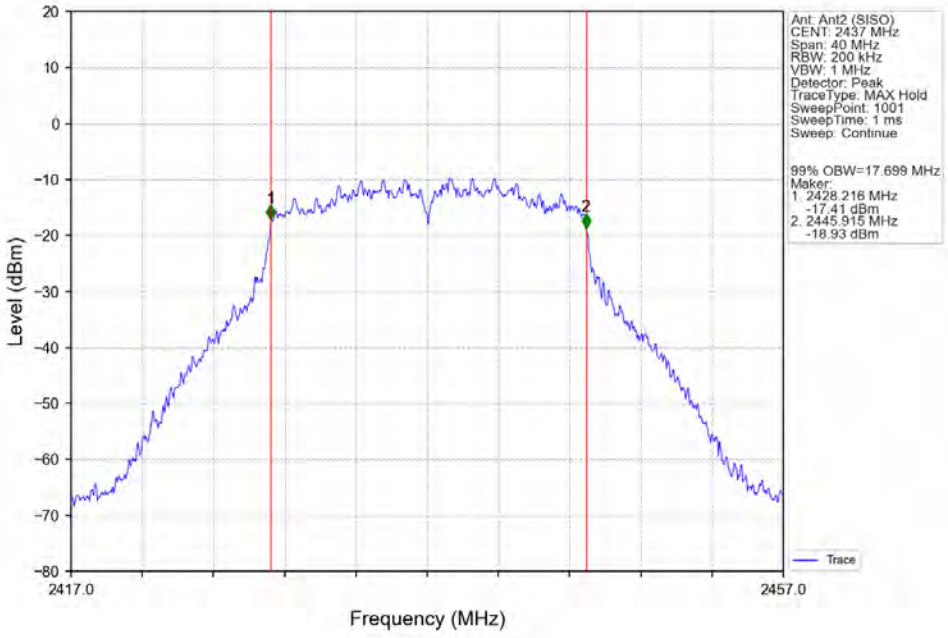
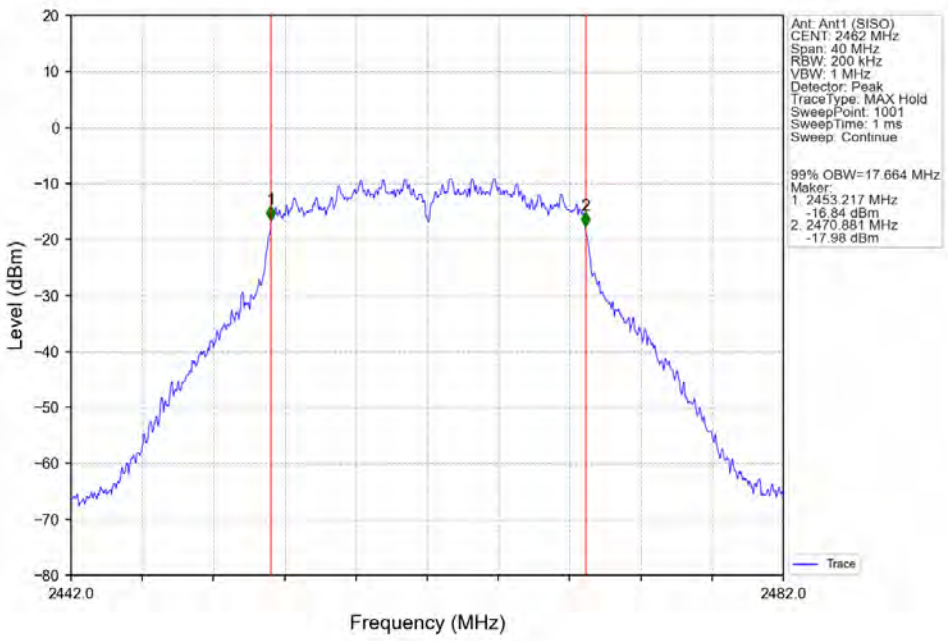
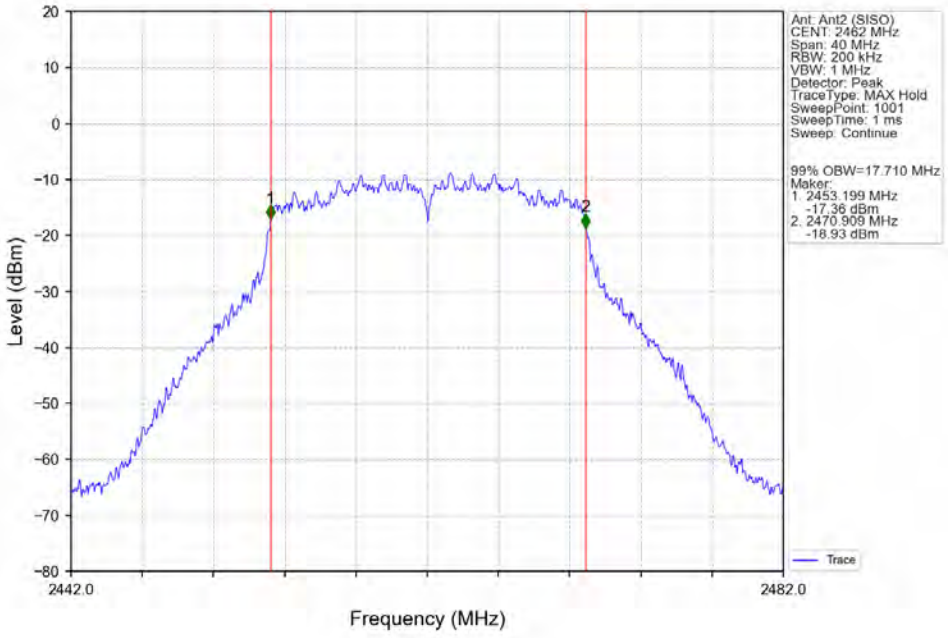


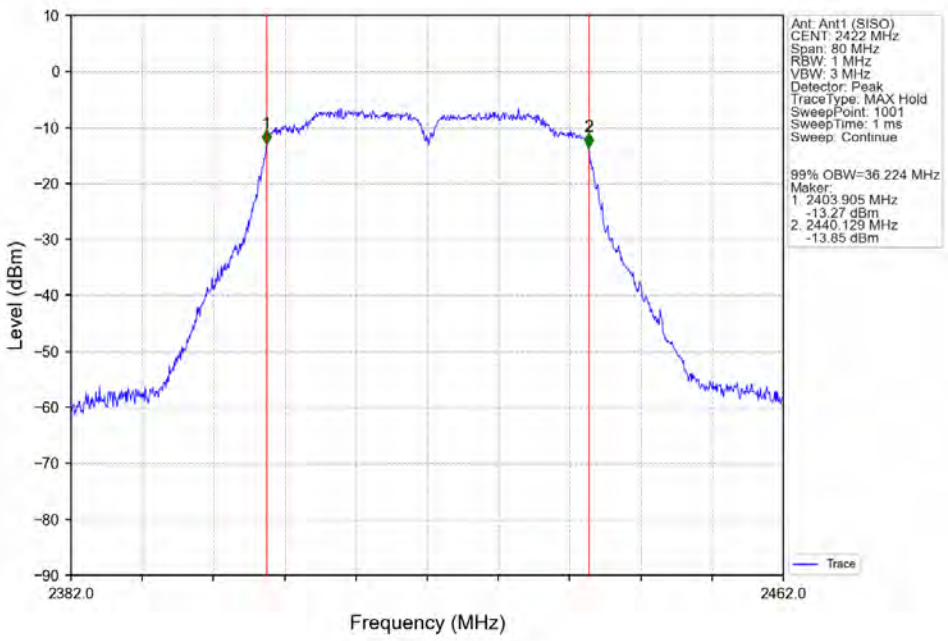
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



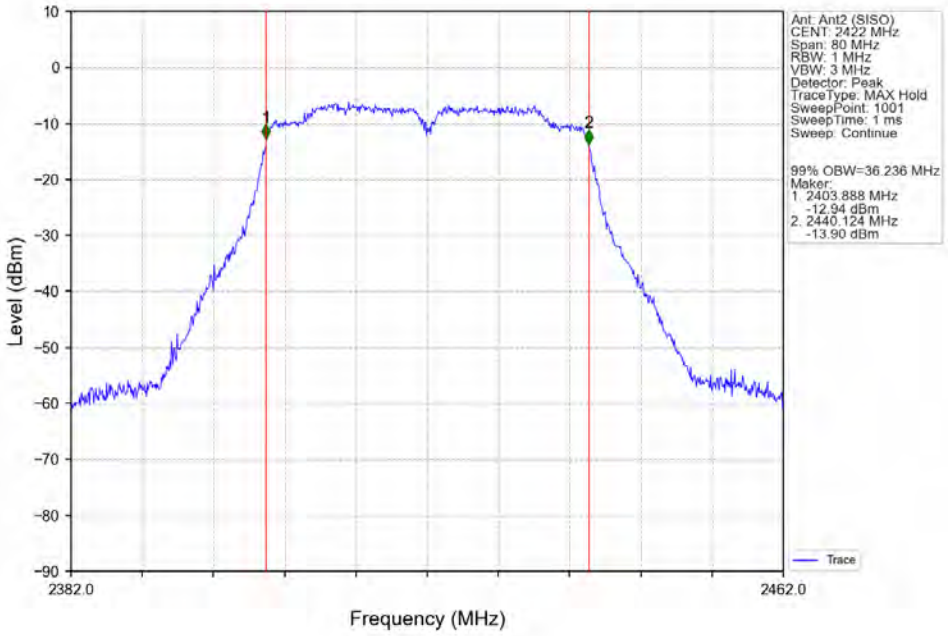
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



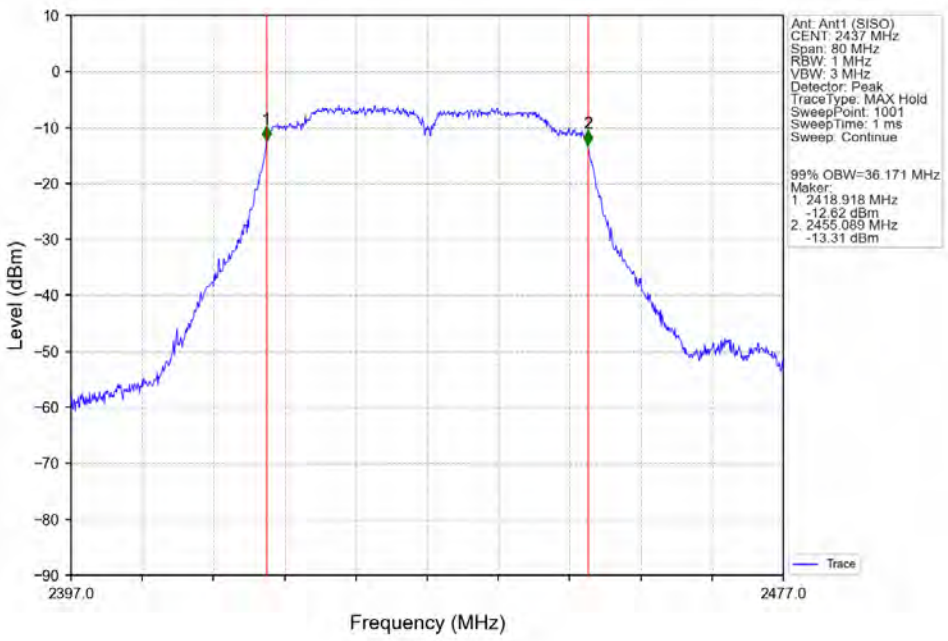
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



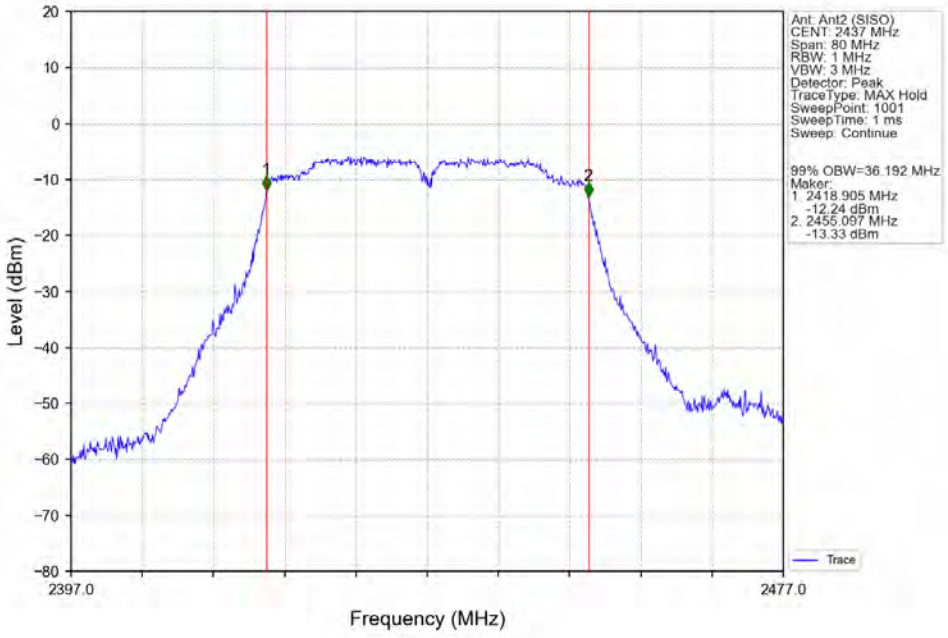
802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



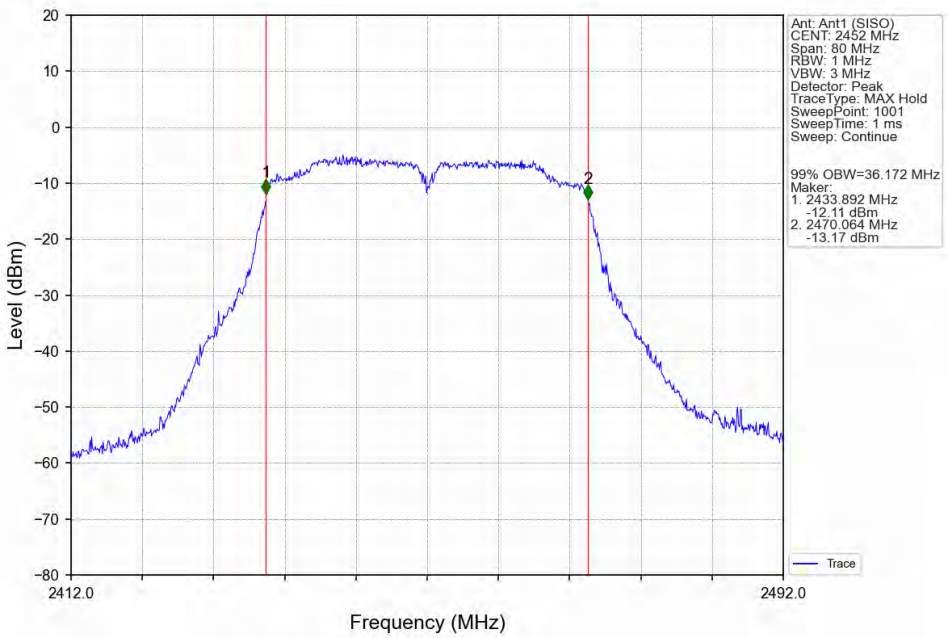
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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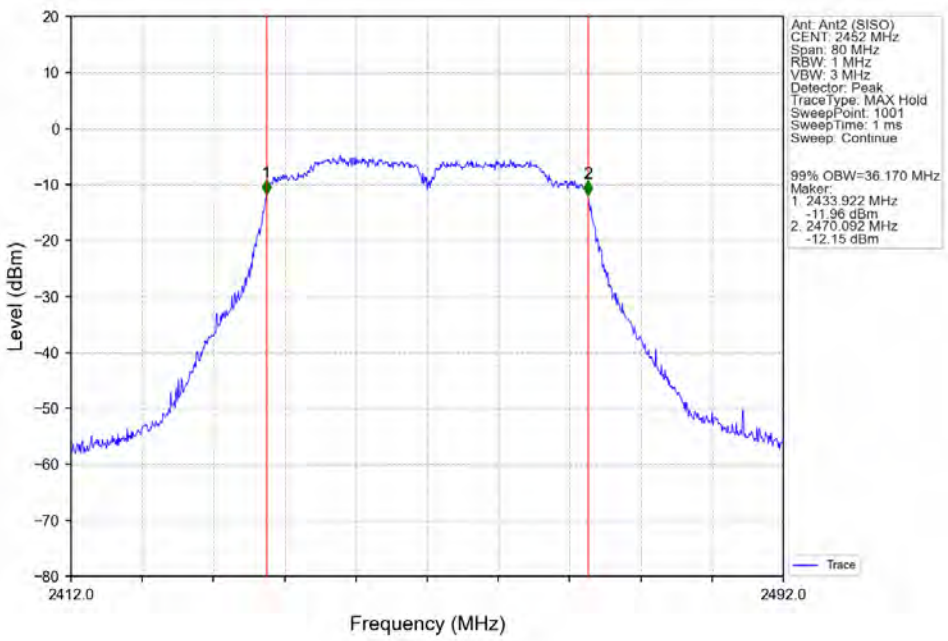
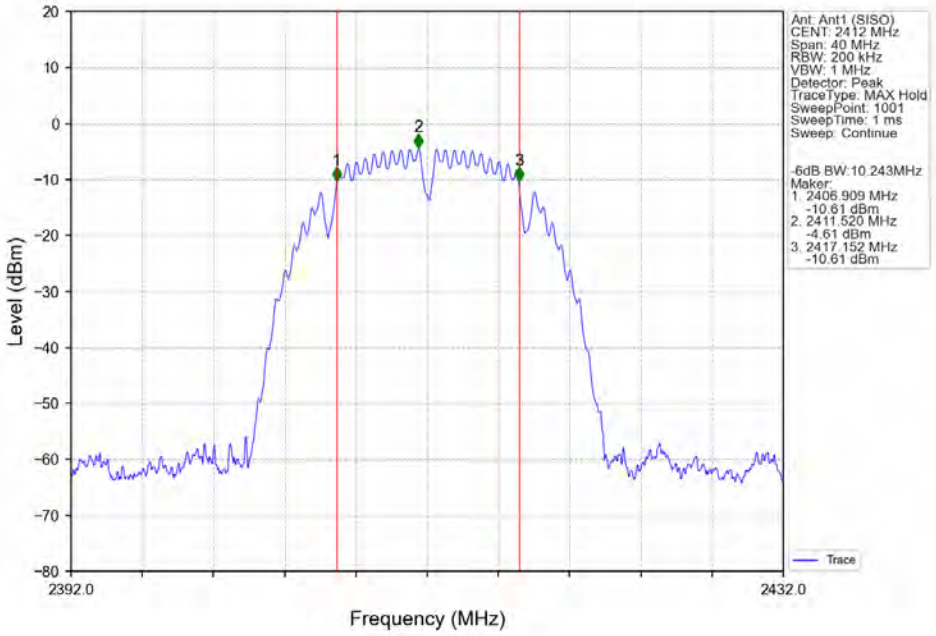
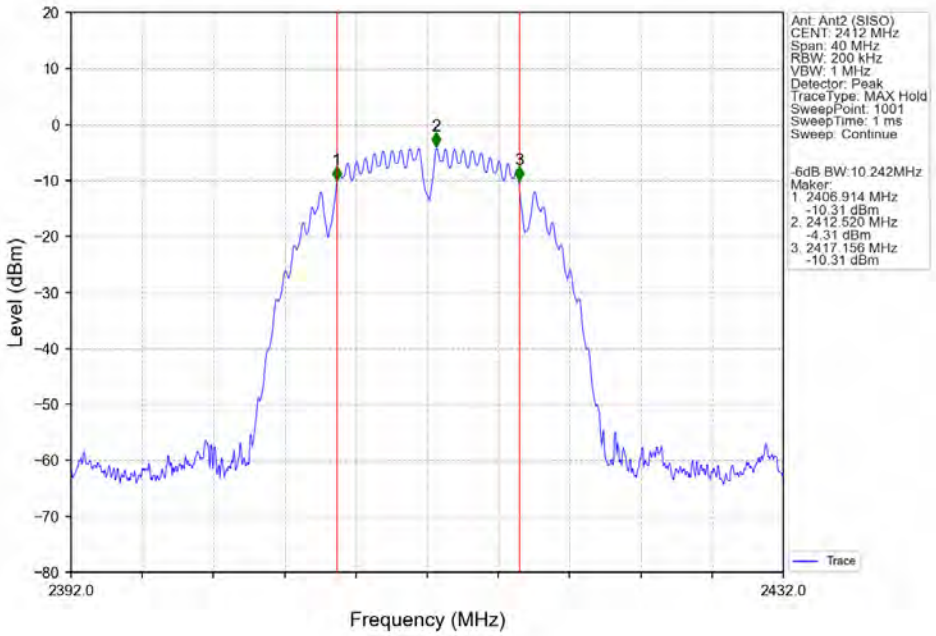


2.2.2 6dB BW

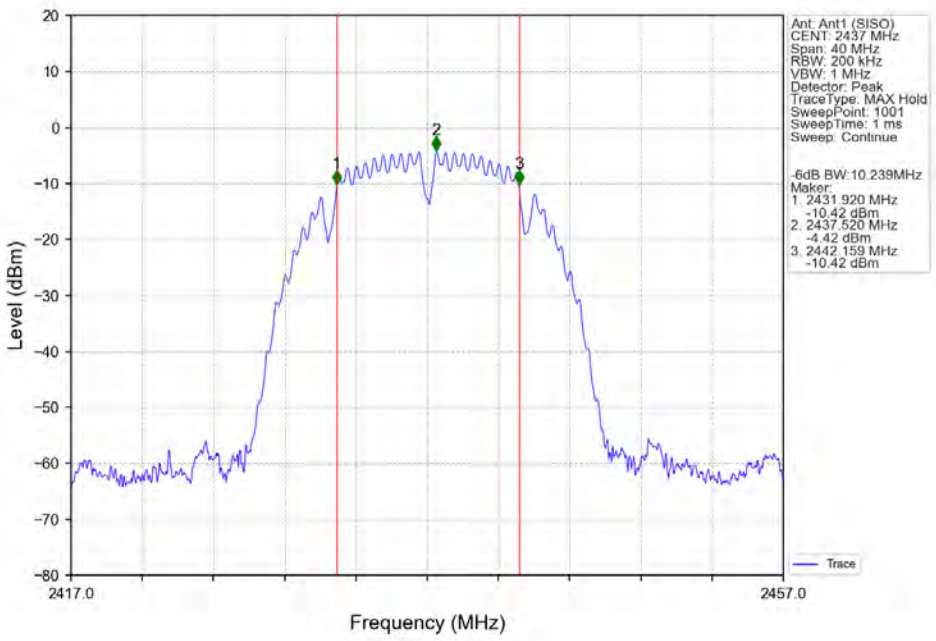
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



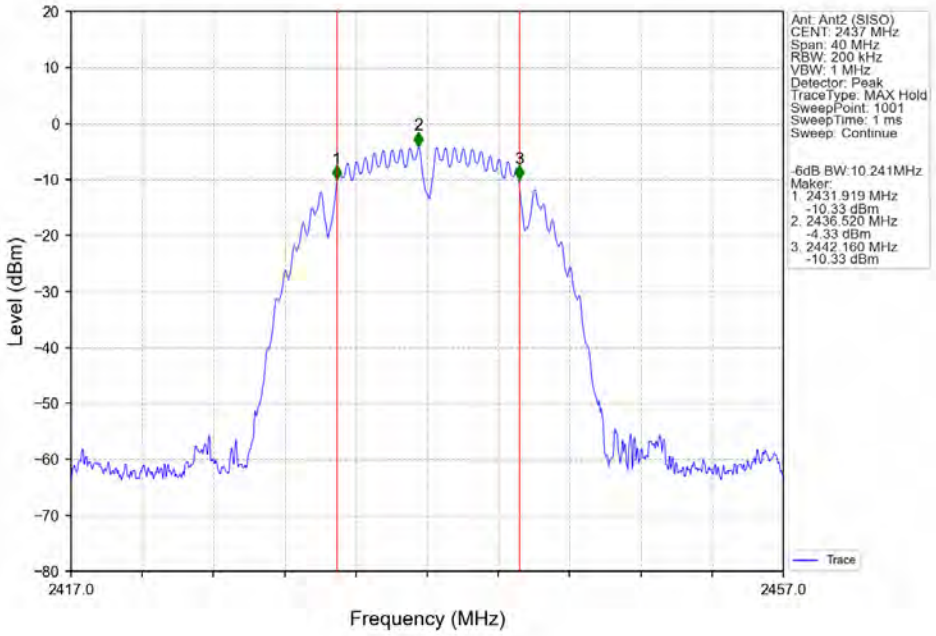
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



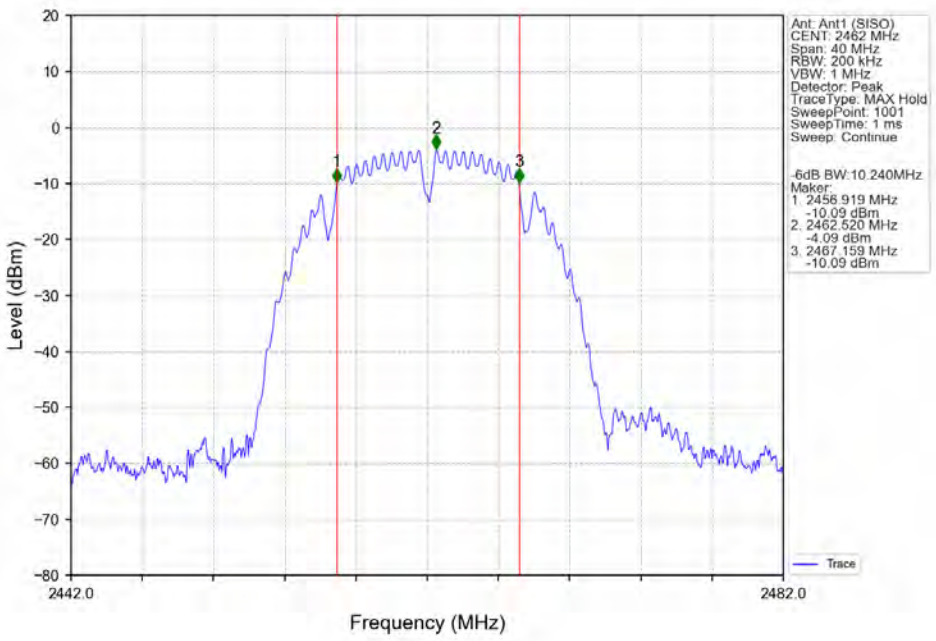
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



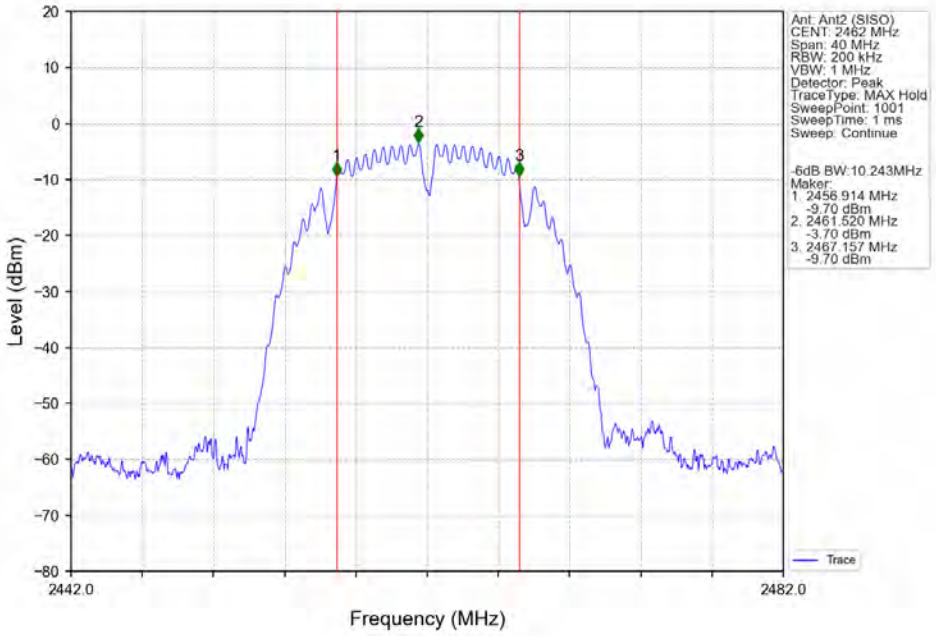
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



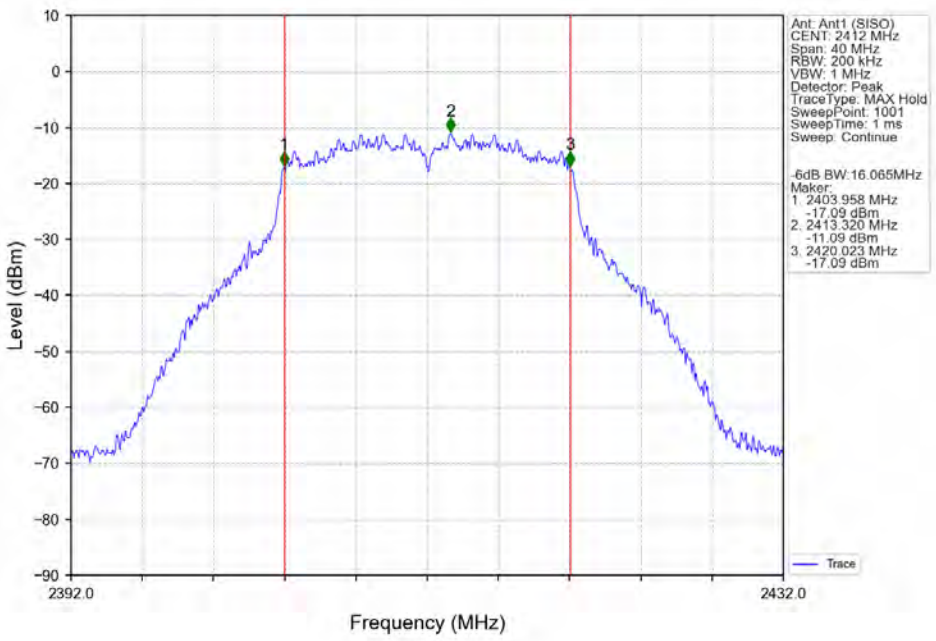
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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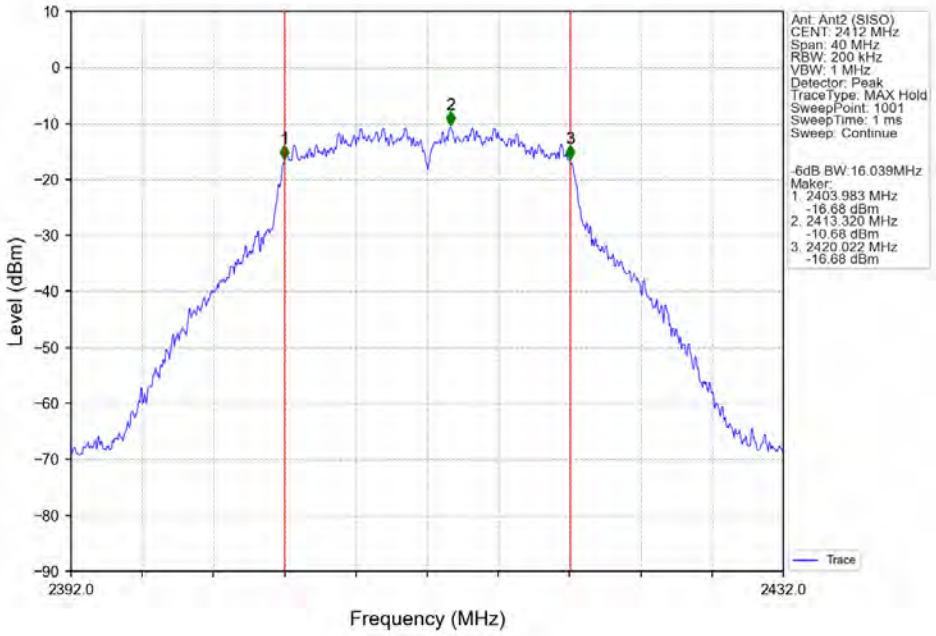
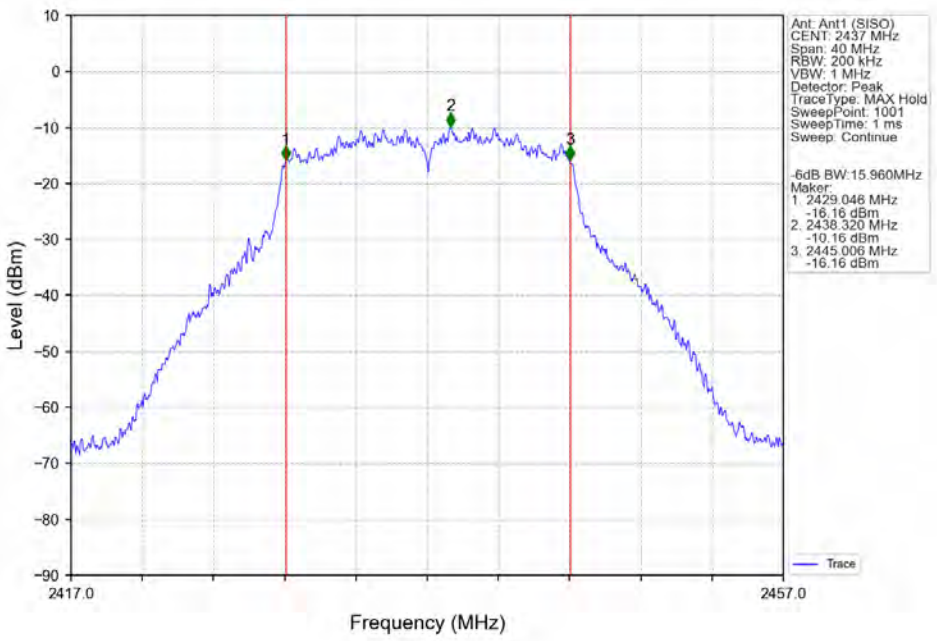
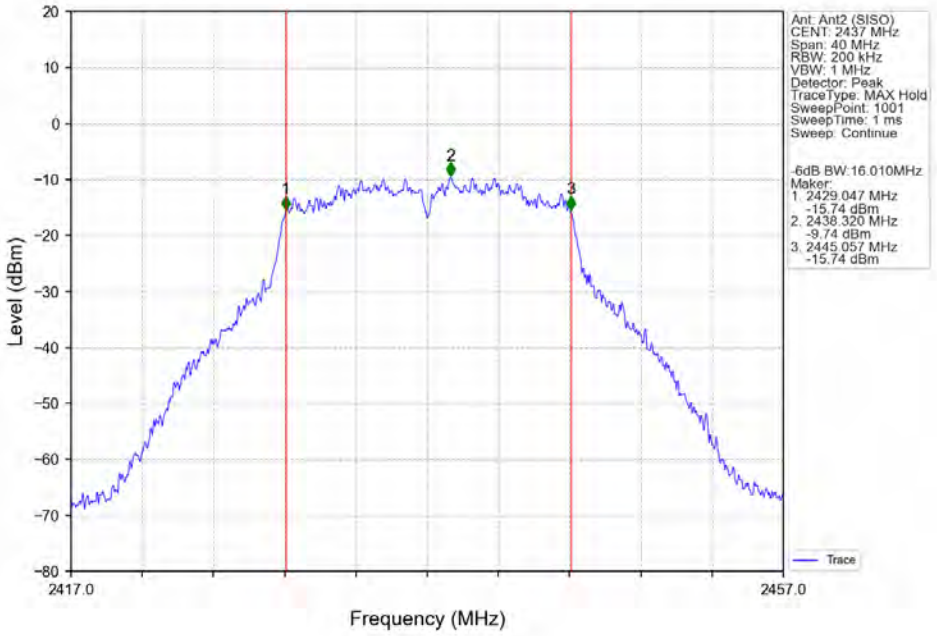


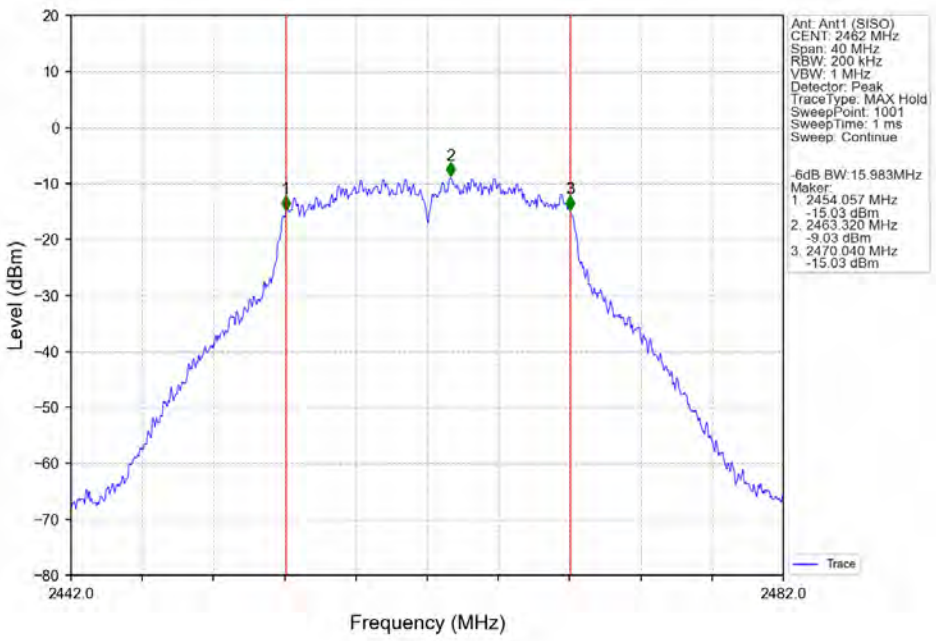
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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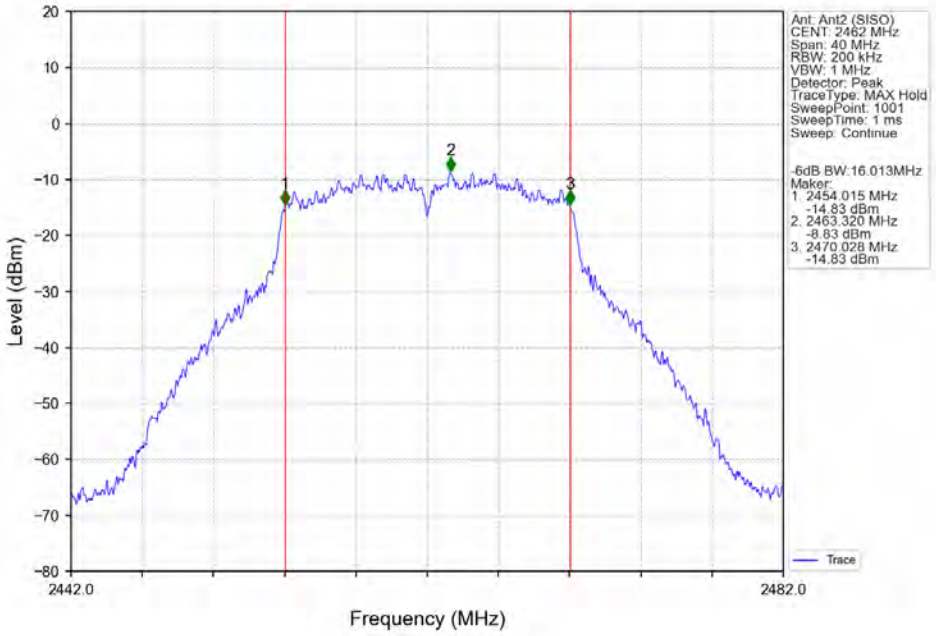
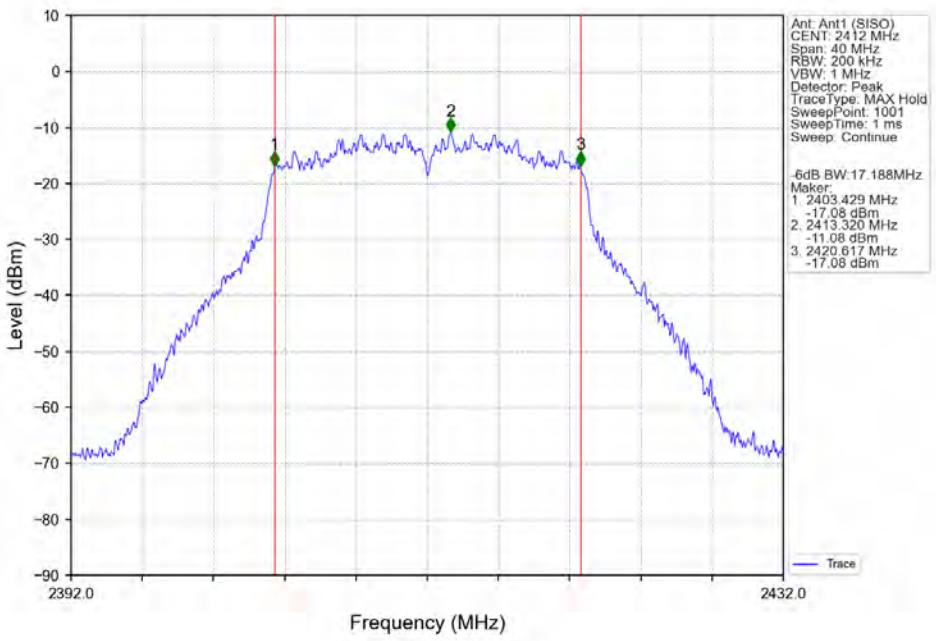


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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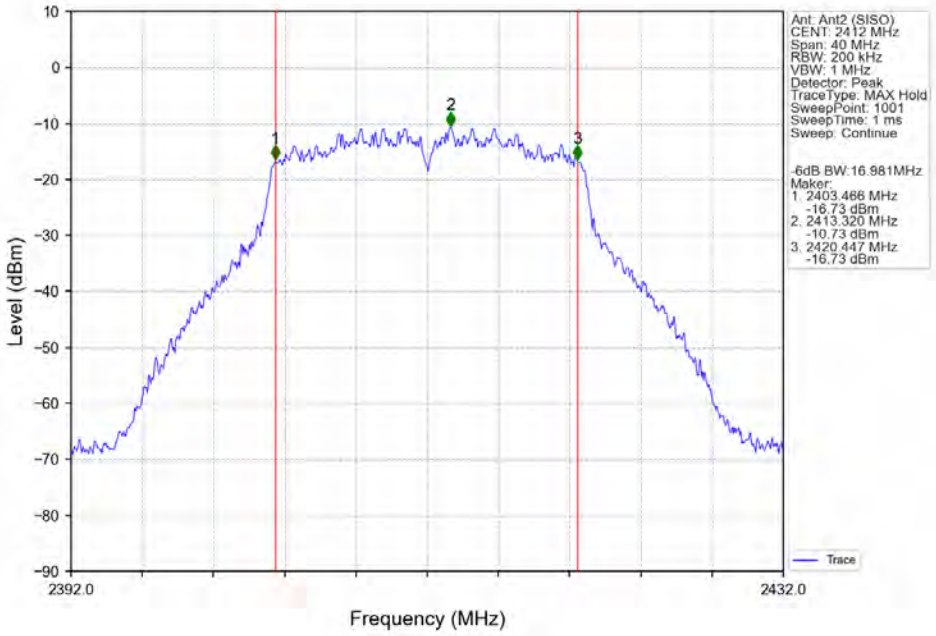

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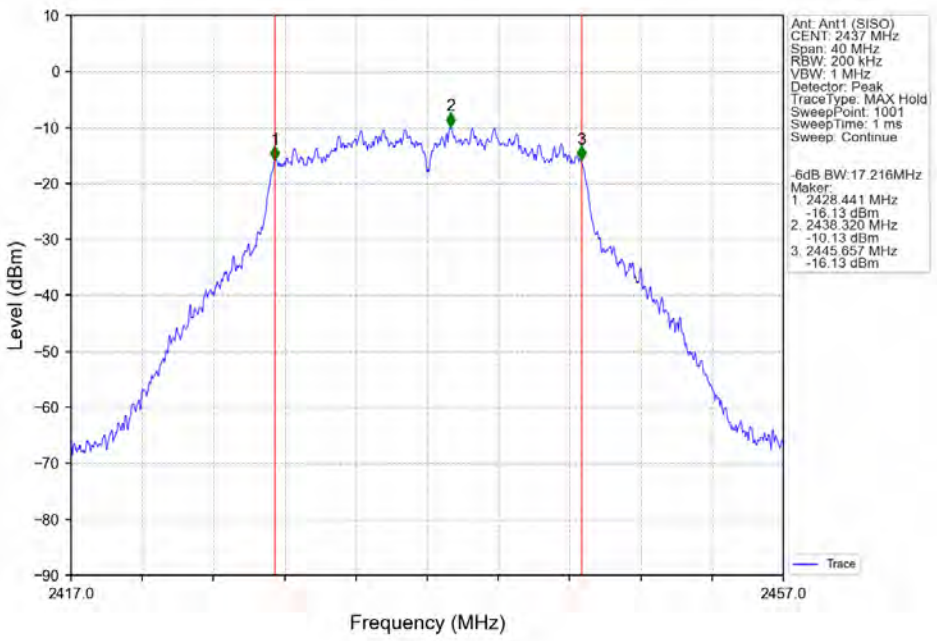

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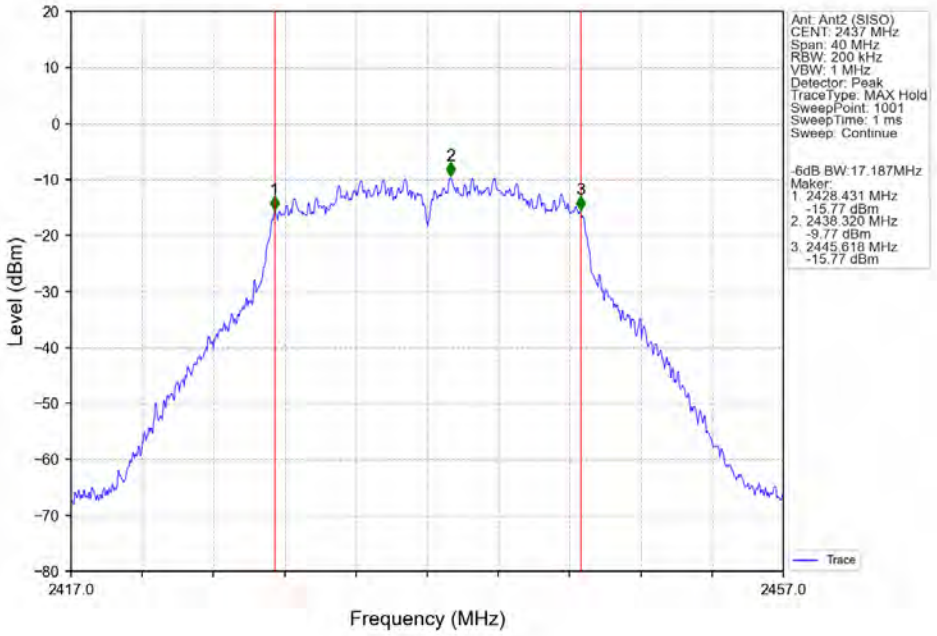
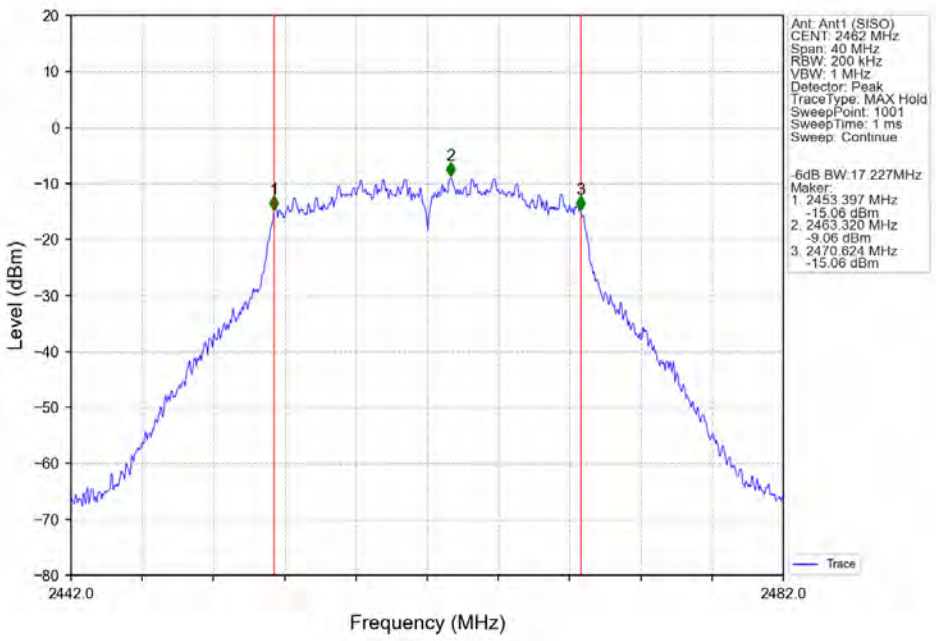
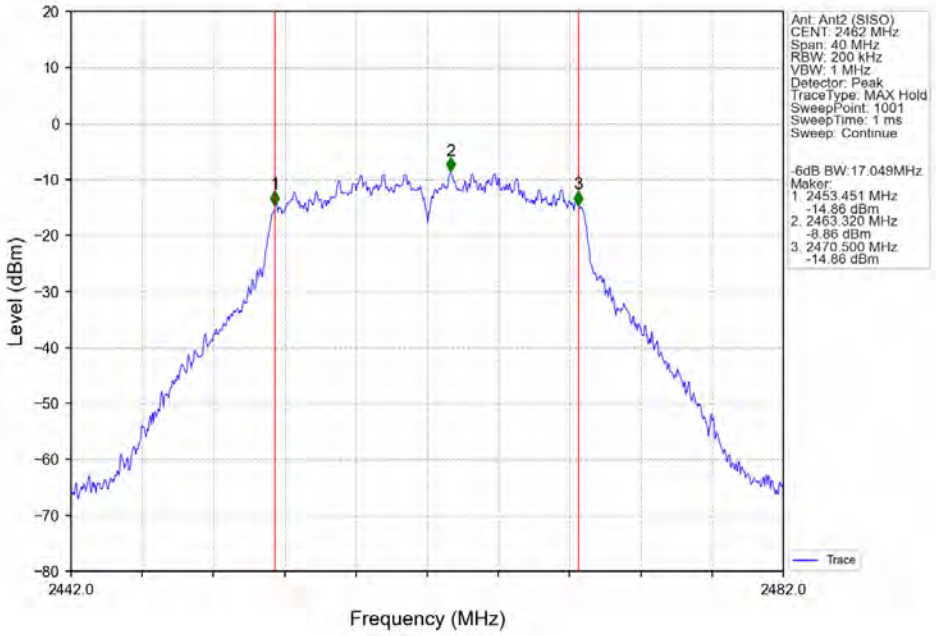


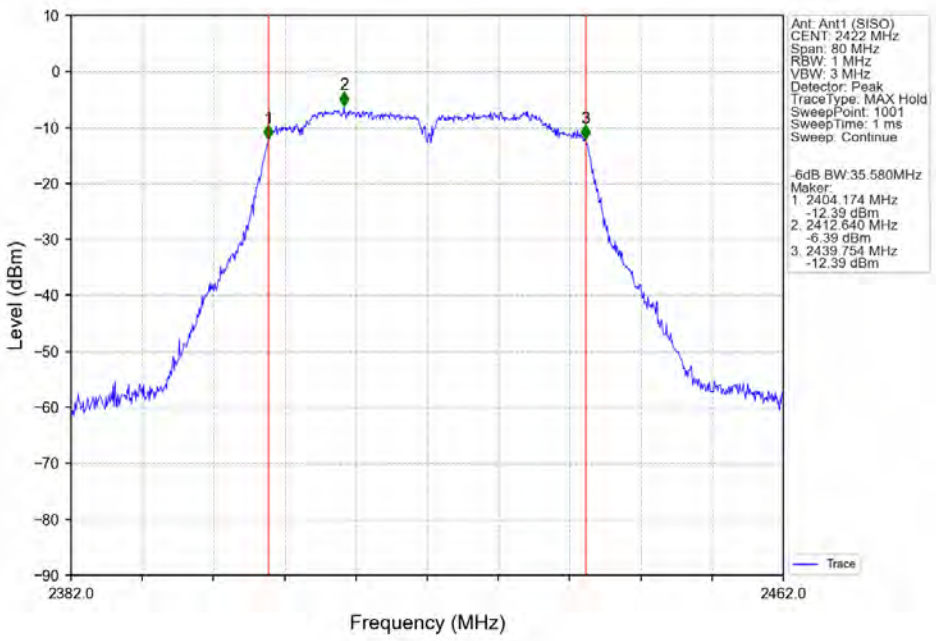
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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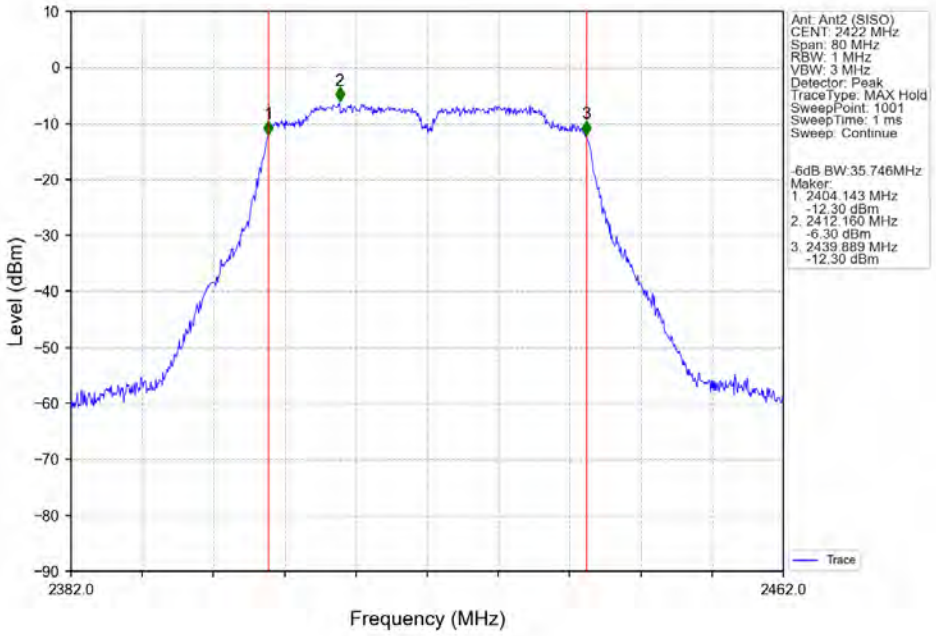

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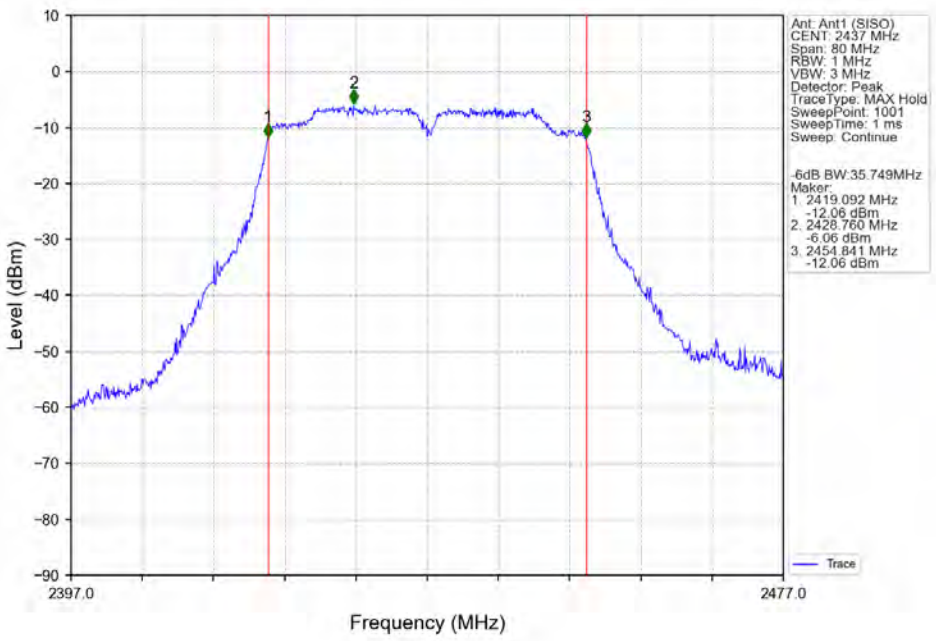
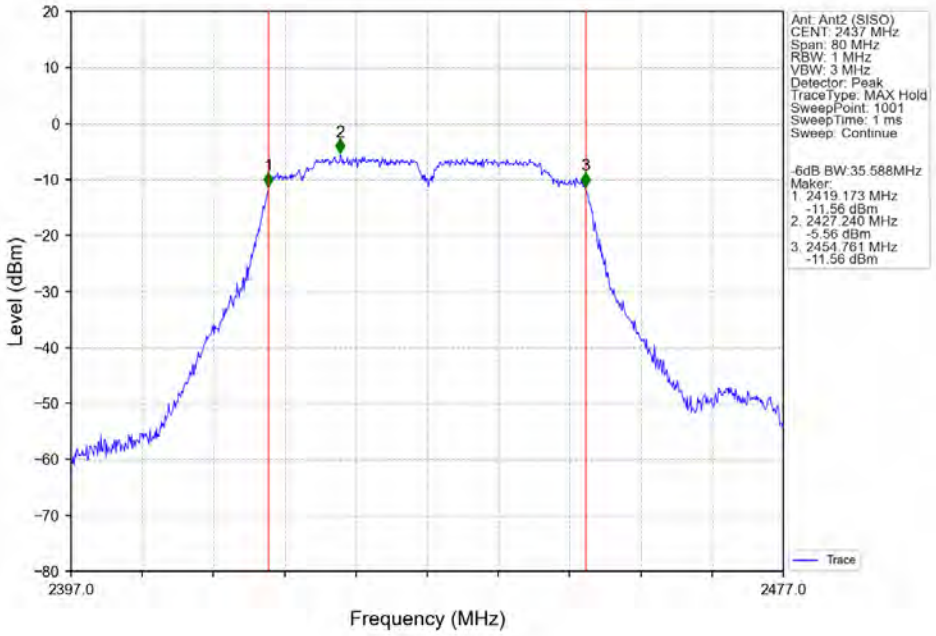
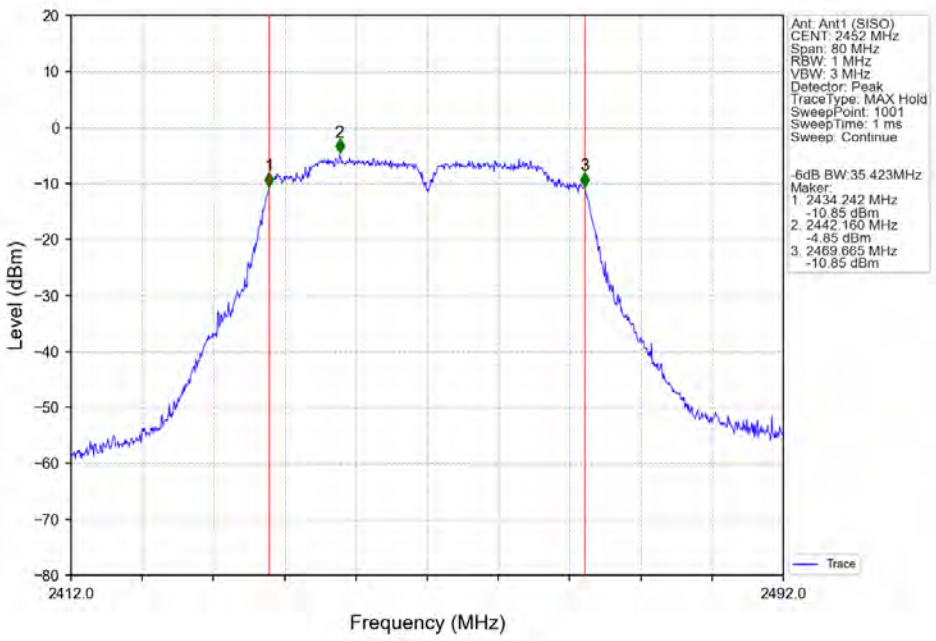


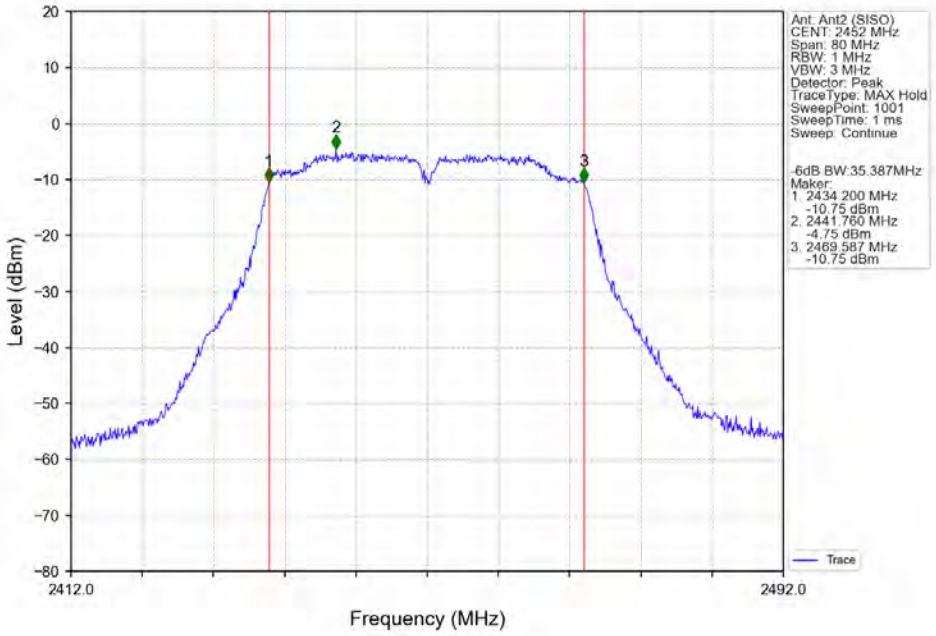
802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (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	4.15	4.35	/	<=30	Pass
		2437	4.21	4.31	/	<=30	Pass
		2462	4.53	5.01	/	<=30	Pass
802.11g	SISO	2412	4.54	5.00	/	<=30	Pass
		2437	4.42	4.81	/	<=30	Pass
		2462	4.55	4.75	/	<=30	Pass
802.11n (HT20)	SISO	2412	4.46	3.79	7.15	<=30	Pass
		2437	4.31	4.68	7.51	<=30	Pass
		2462	4.43	4.60	7.53	<=30	Pass
802.11n (HT40)	SISO	2422	4.57	3.95	7.28	<=30	Pass
		2437	4.26	4.56	7.42	<=30	Pass
		2452	3.91	4.11	7.02	<=30	Pass

Note1: Antenna Gain: Ant1: 1.08dBi; Ant2: 0.63dBi;

Note2: Directional Gain: Correlated (Directional Gain =3.87dBi)

Formulas: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2$ /NANT] dBi

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Website: www.eu-test.com
Tel: (86)-755-2357-9714 Email: Service@eu-test.com

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)				Verdict
			ANT1 (dBm/100kHz)	ANT2 (dBm/100kHz)	MIMO (dBm/100kHz)	Limit (dBm/3kHz)	
802.11b	SISO	2412	-5.02	-4.65	/	<=8	Pass
		2437	-4.63	-4.64	/	<=8	Pass
		2462	-4.31	-4.01	/	<=8	Pass
802.11g	SISO	2412	-11.85	-11.44	/	<=8	Pass
		2437	-10.92	-10.53	/	<=8	Pass
		2462	-9.82	-9.61	/	<=8	Pass
802.11n (HT20)	SISO	2412	-11.90	-11.49	-8.68	<=8	Pass
		2437	-10.92	-10.55	-7.72	<=8	Pass
		2462	-9.86	-9.65	-6.74	<=8	Pass
802.11n (HT40)	SISO	2422	-14.29	-13.89	-11.08	<=8	Pass
		2437	-13.57	-13.26	-10.40	<=8	Pass
		2452	-12.80	-12.64	-9.71	<=8	Pass

Note1: Antenna Gain: Ant1: 1.08dBi; Ant2: 0.63dBi;
Note2: Directional Gain: Correlated (Directional Gain =3.87dBi)
Formulas: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2$ /NANT] dBi

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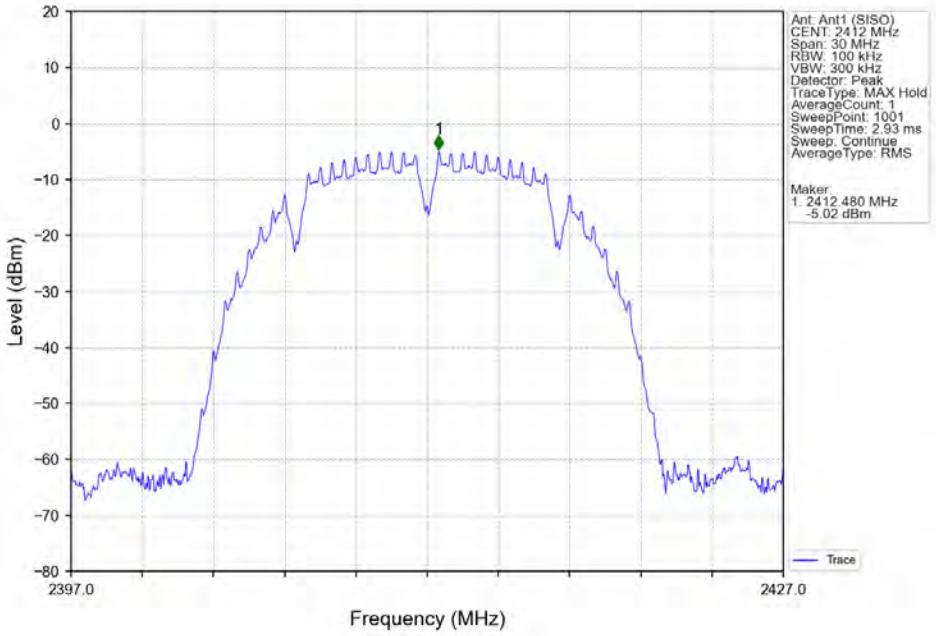
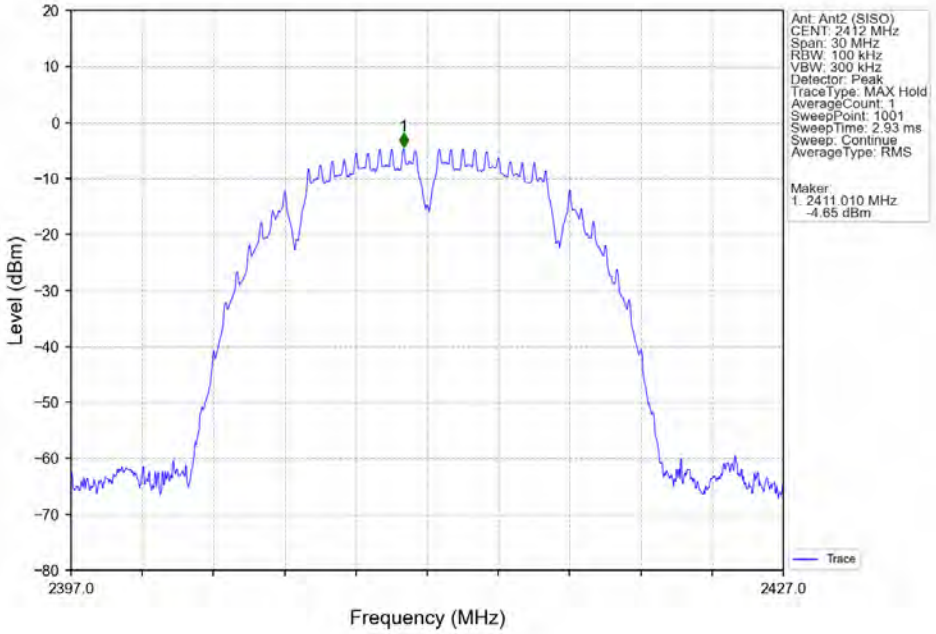
4.2 Test Graph

4.2.1 PSD

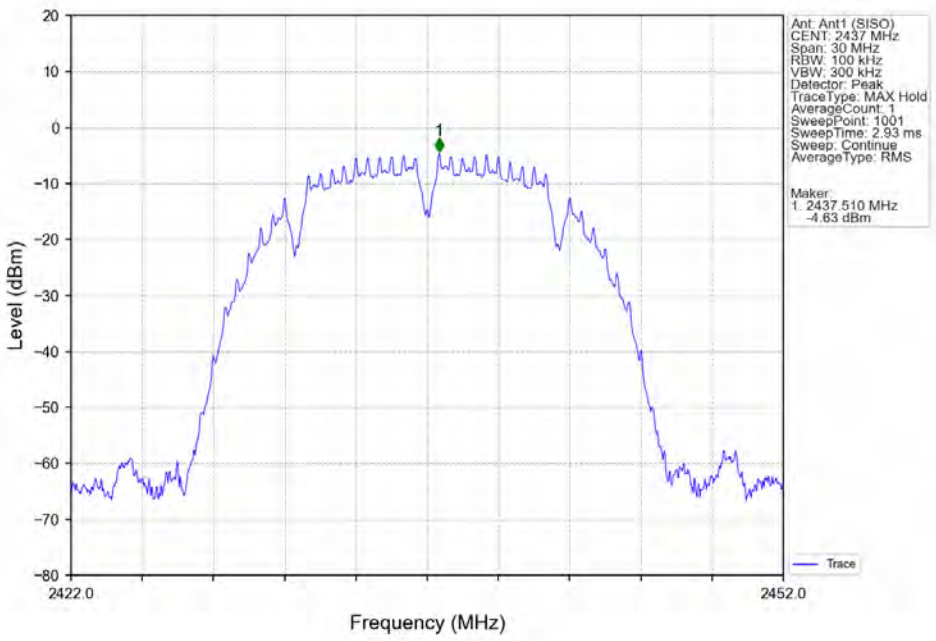
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



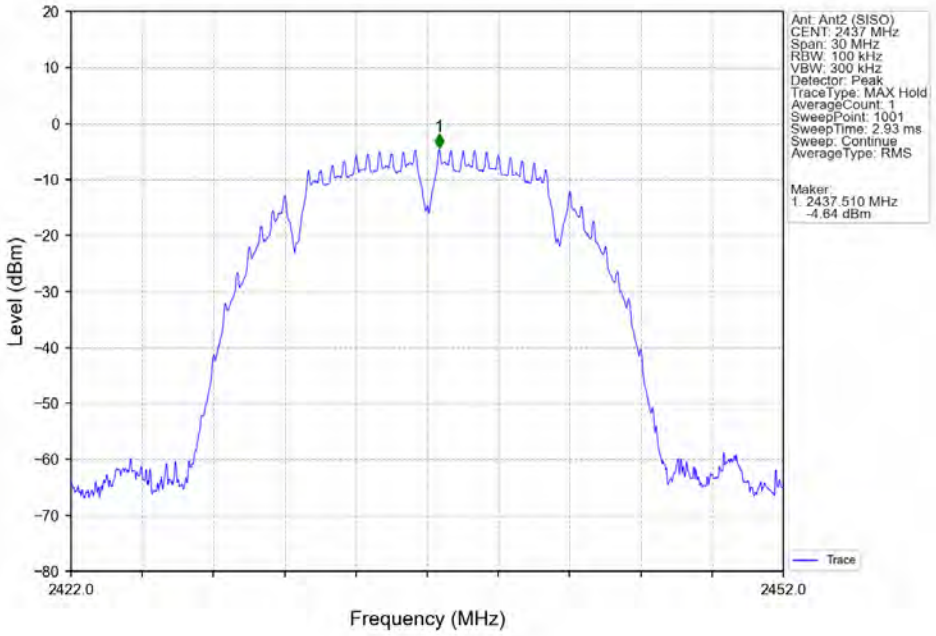
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



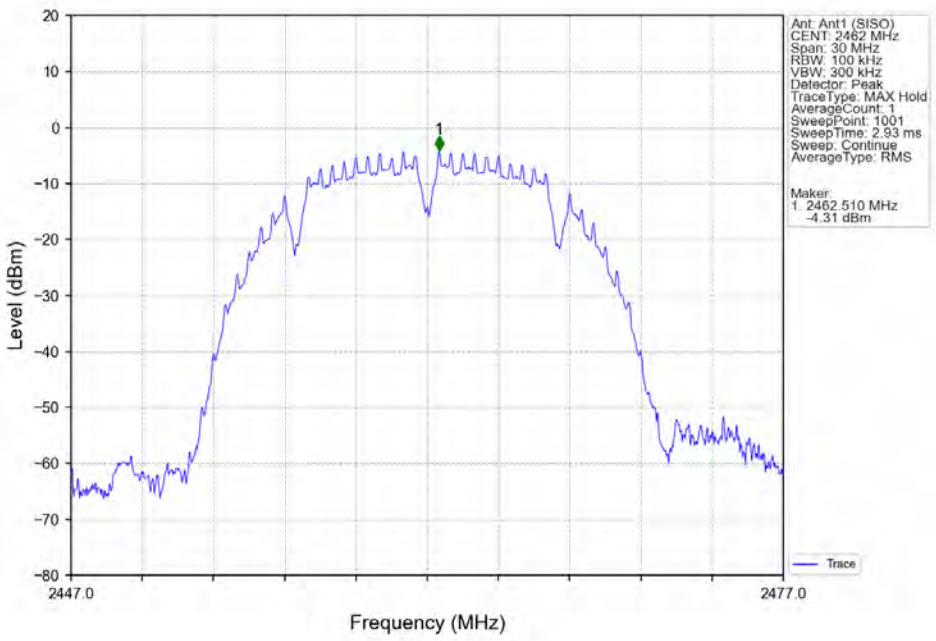
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



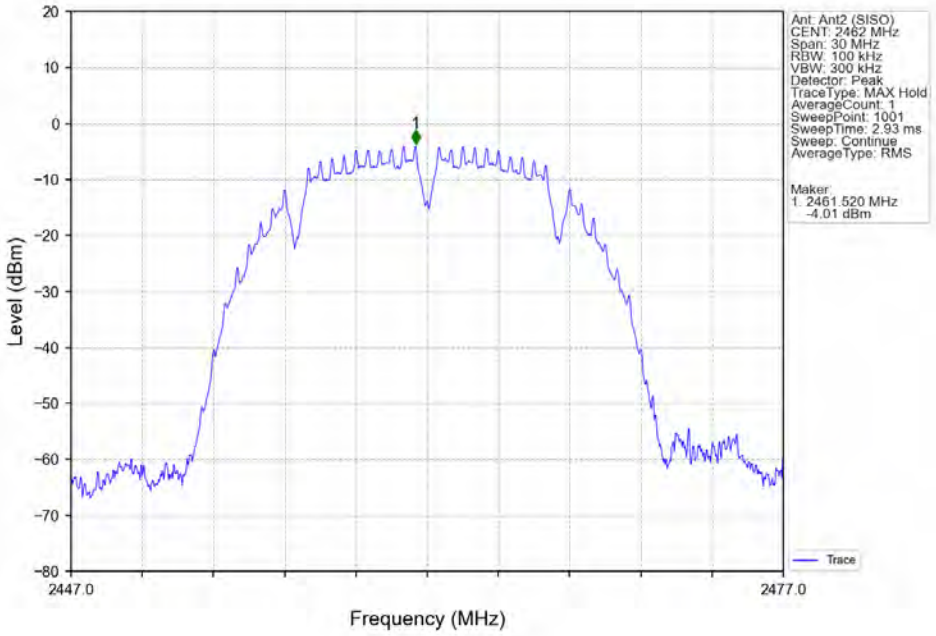
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



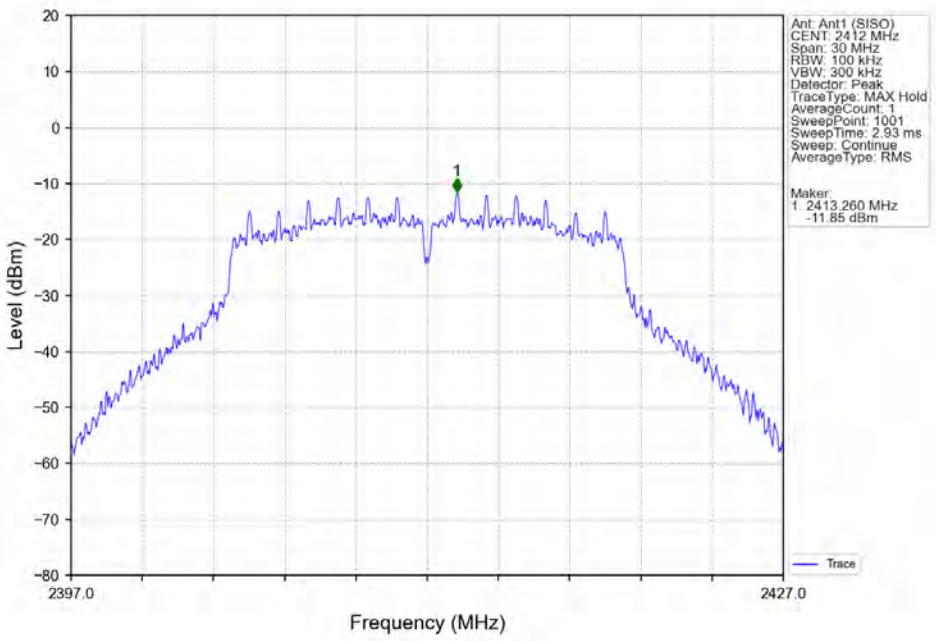
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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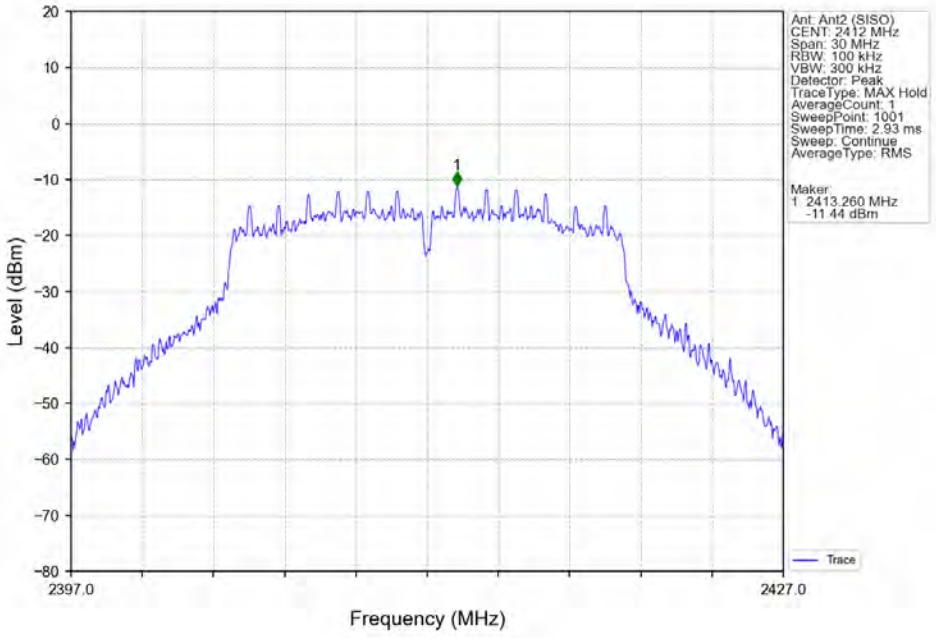
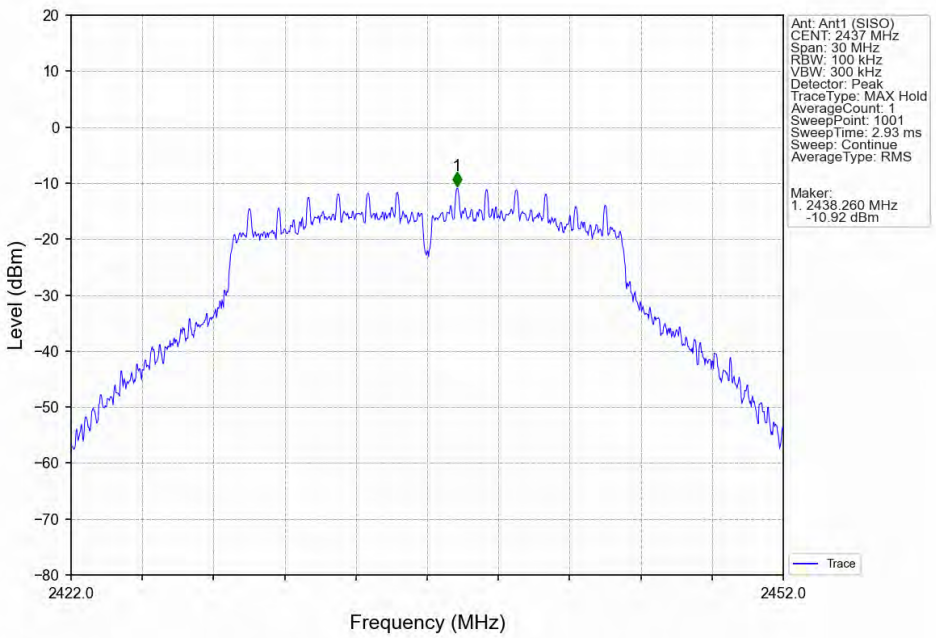
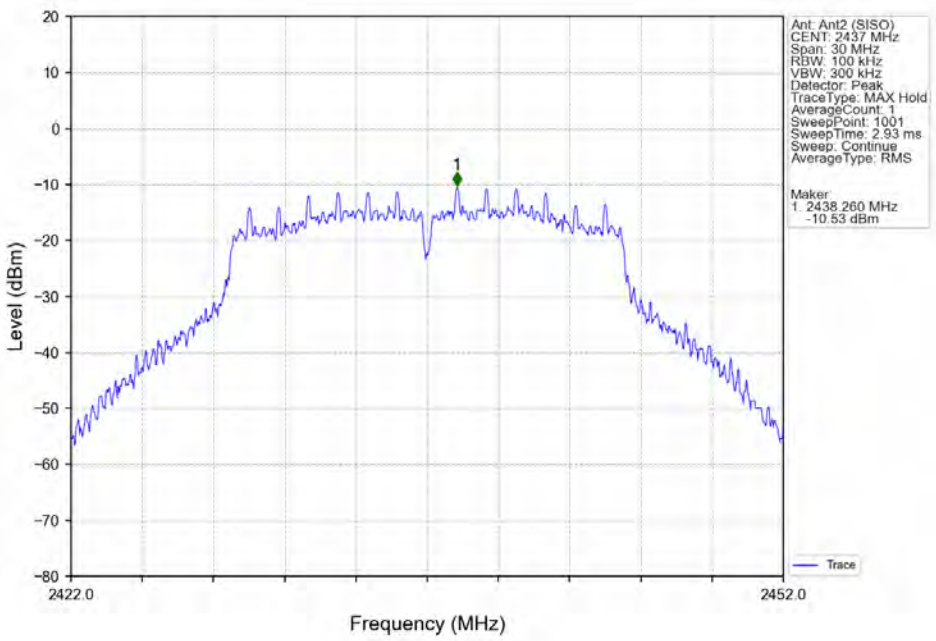


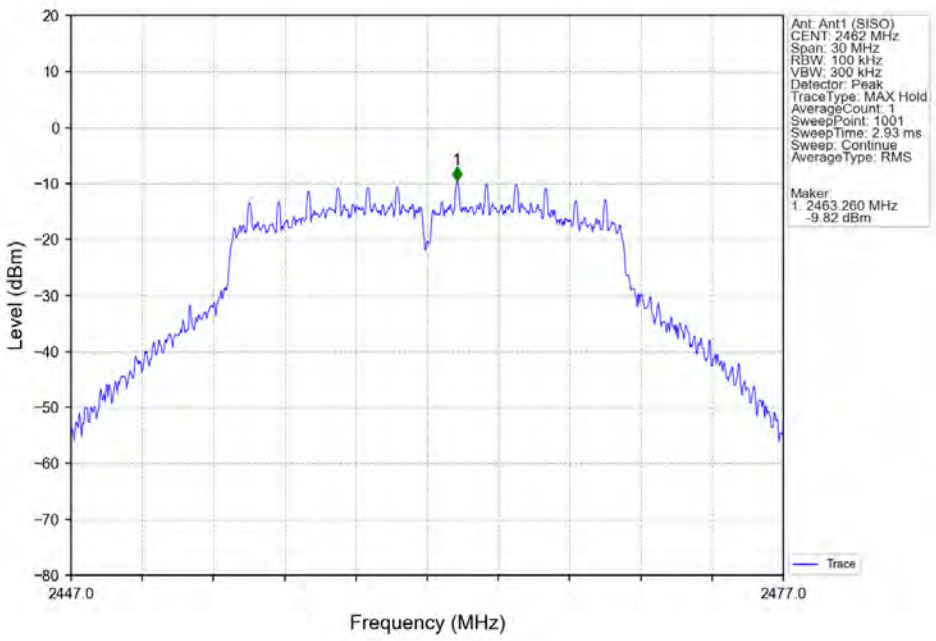
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



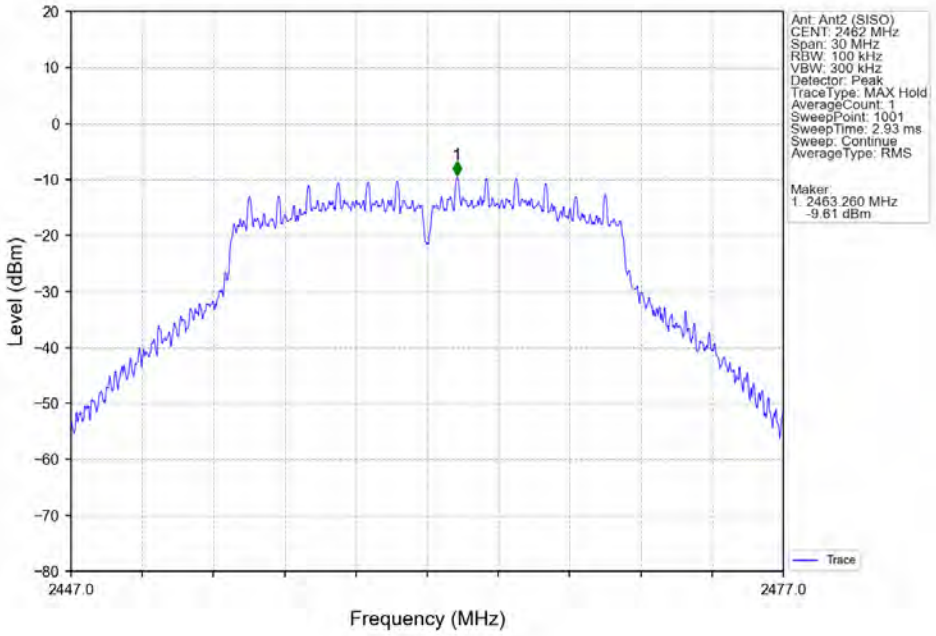
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



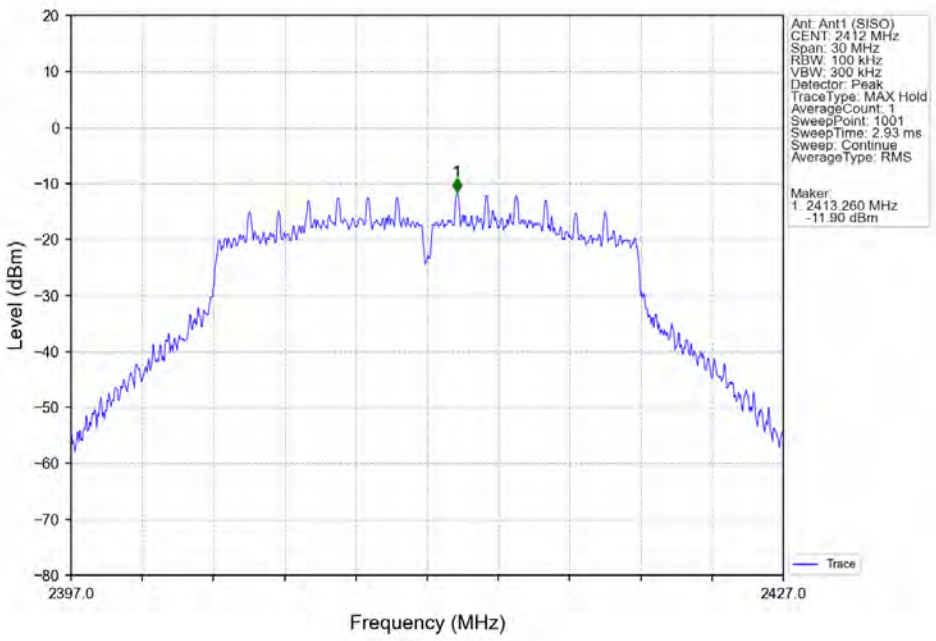
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



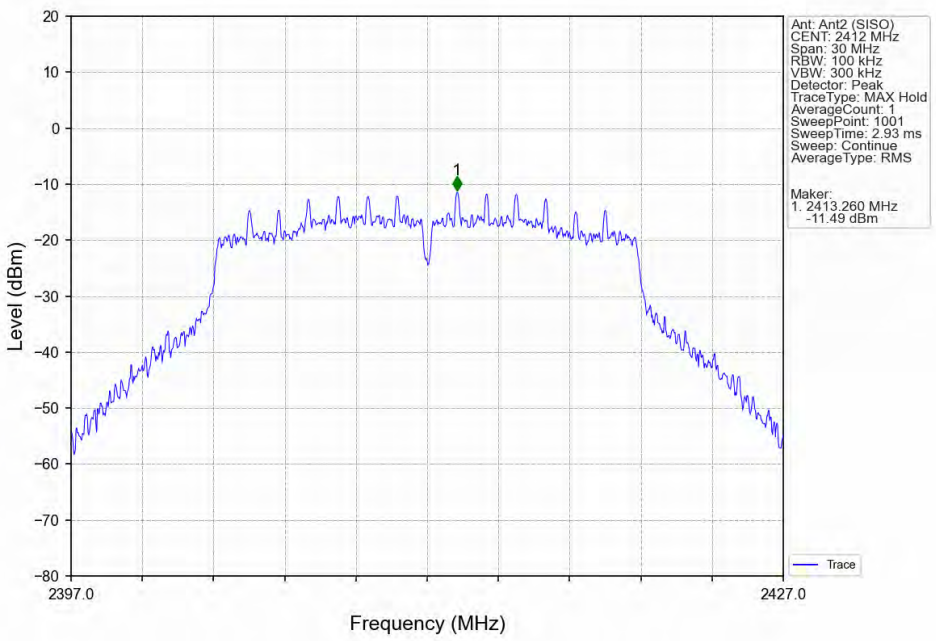
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



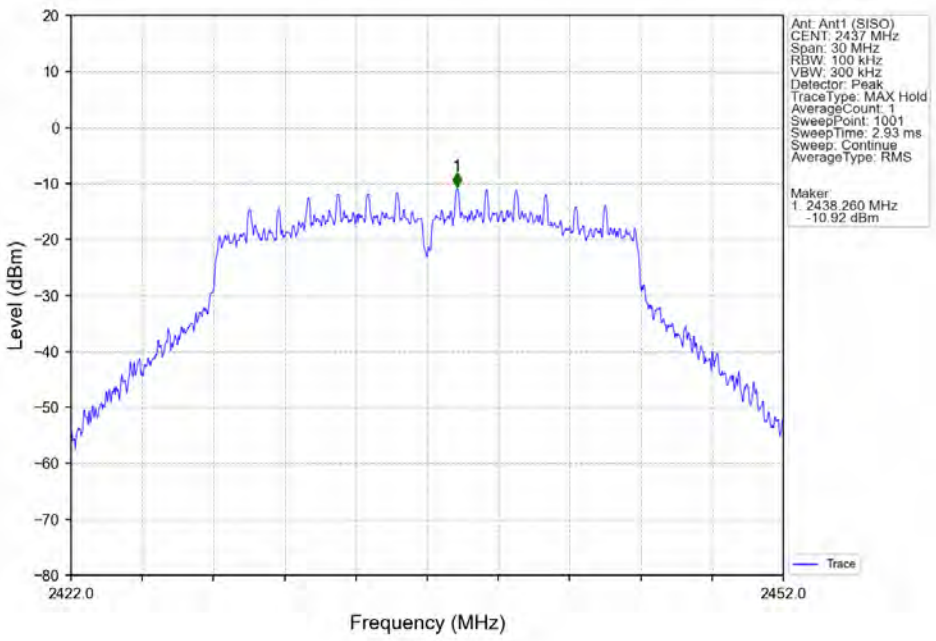
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



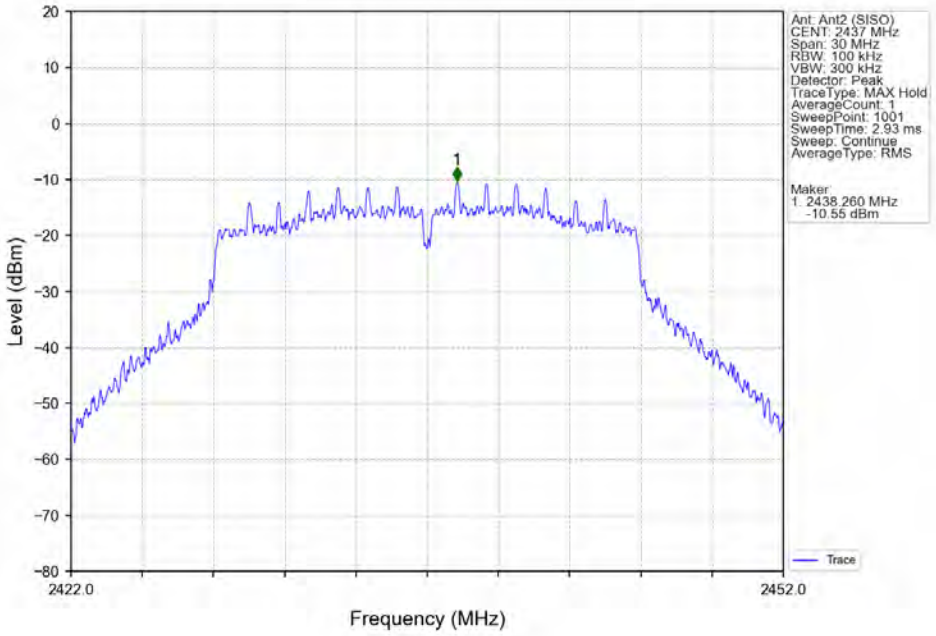
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



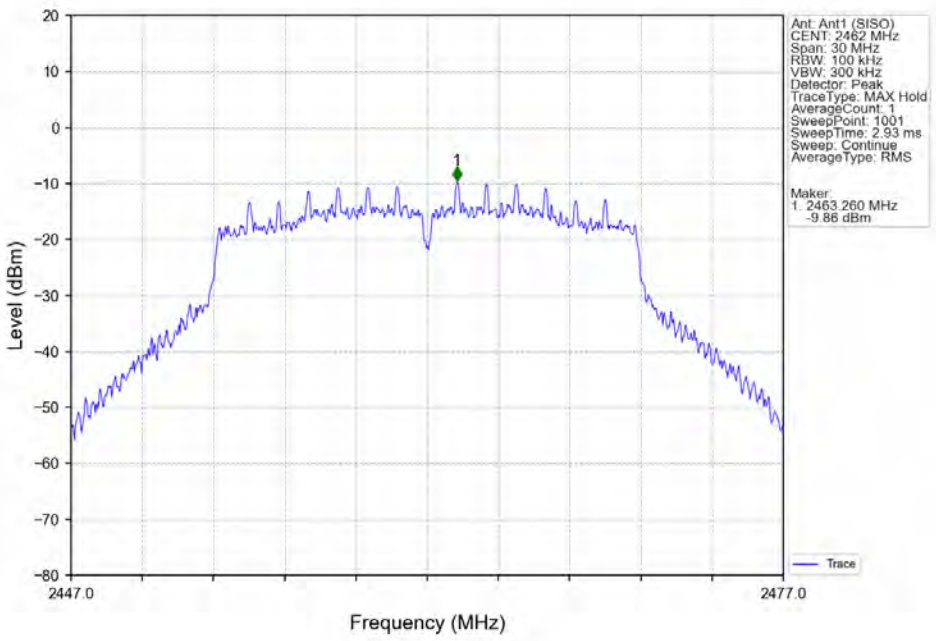
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



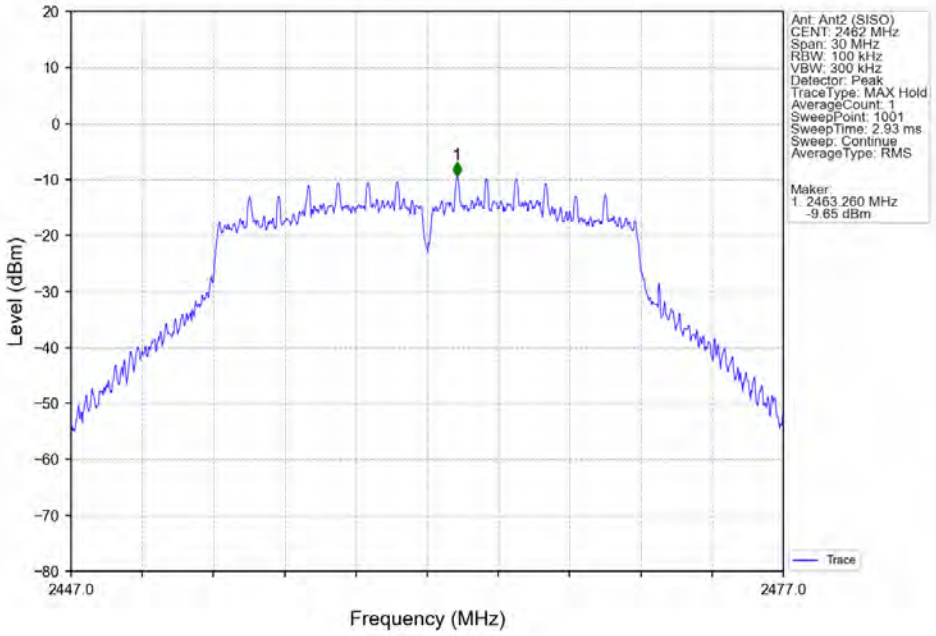
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



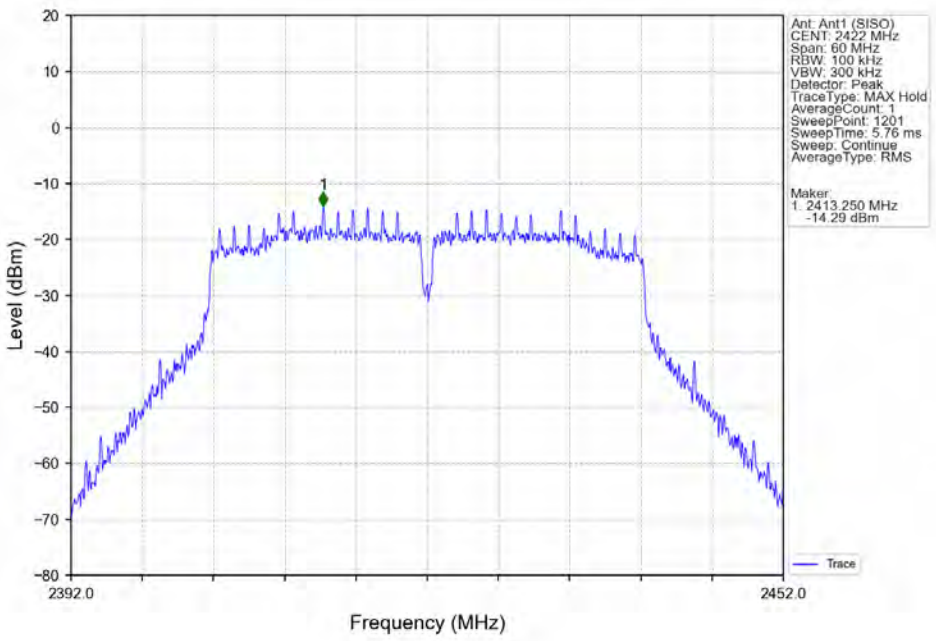
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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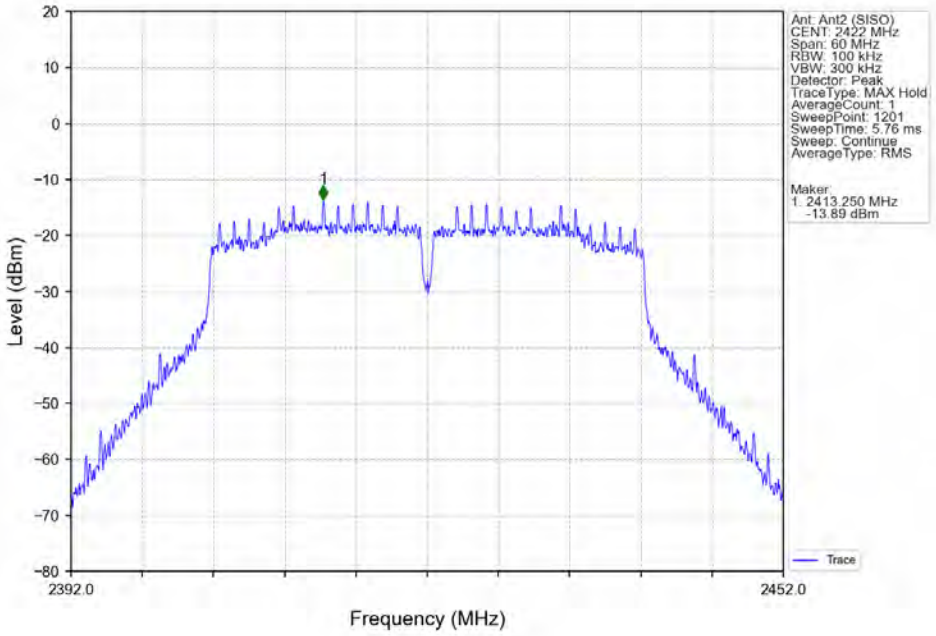

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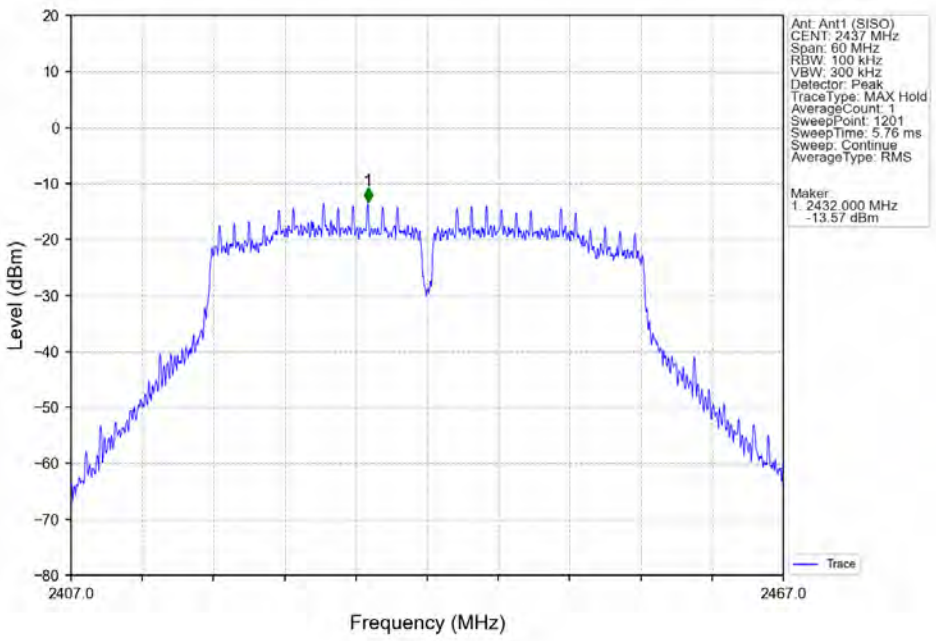
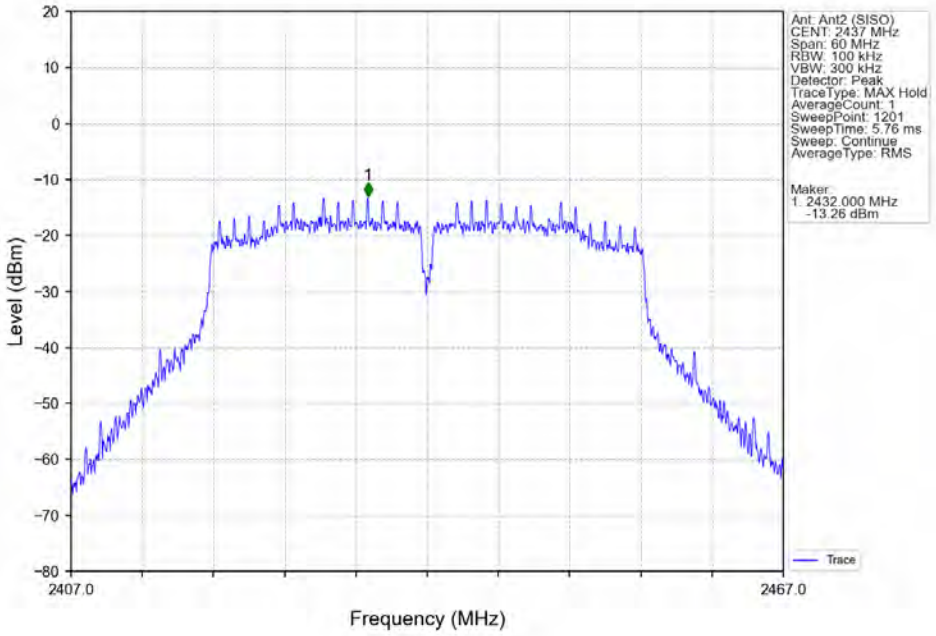
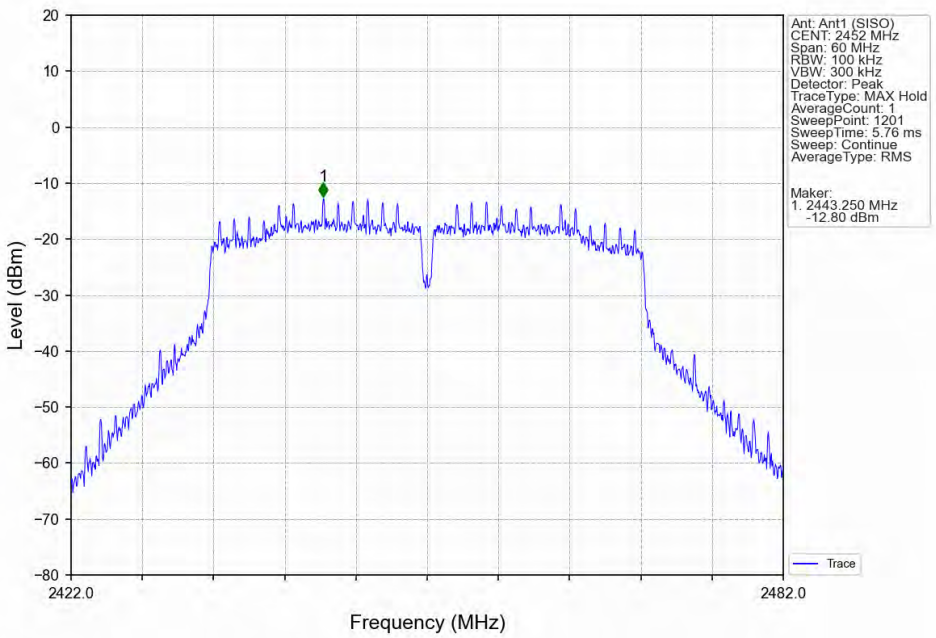


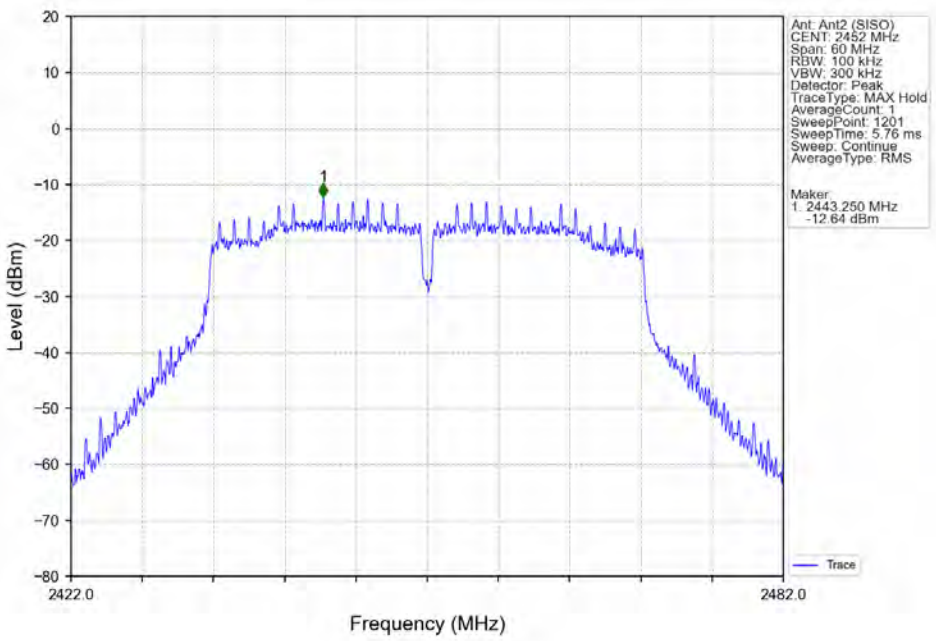
802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (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	-4.83
			2	-4.64
		2437	1	-4.86
			2	-4.60
		2462	1	-4.43
			2	-4.00
802.11g	SISO	2412	1	-11.89
			2	-11.44
		2437	1	-10.92
			2	-10.51
		2462	1	-9.82
			2	-9.62
802.11n (HT20)	SISO	2412	1	-11.85
			2	-11.48
		2437	1	-10.91
			2	-10.62
		2462	1	-9.83
			2	-9.64
802.11n (HT40)	SISO	2422	1	-14.43
			2	-13.91
		2437	1	-13.56
			2	-13.29
		2452	1	-12.82
			2	-12.66

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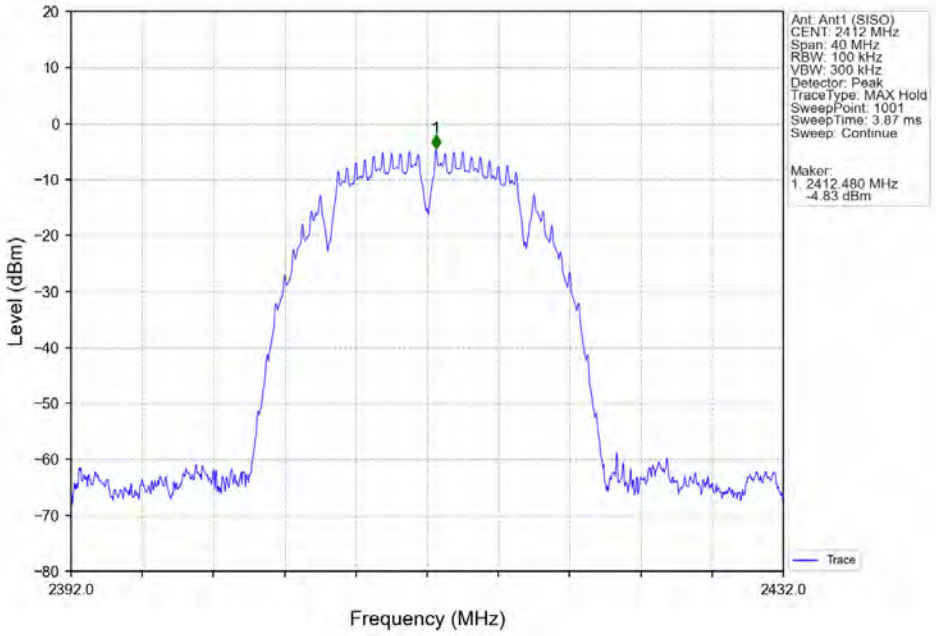
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-4.83	-24.83	Pass
			2	-4.64	-24.64	Pass
		2437	1	-4.86	-24.86	Pass
			2	-4.60	-24.60	Pass
		2462	1	-4.43	-24.43	Pass
			2	-4.00	-24.00	Pass
802.11g	SISO	2412	1	-11.89	-31.89	Pass
			2	-11.44	-31.44	Pass
		2437	1	-10.92	-30.92	Pass
			2	-10.51	-30.51	Pass
		2462	1	-9.82	-29.82	Pass
			2	-9.62	-29.62	Pass
802.11n (HT20)	SISO	2412	1	-11.85	-31.85	Pass
			2	-11.48	-31.48	Pass
		2437	1	-10.91	-30.91	Pass
			2	-10.62	-30.62	Pass
		2462	1	-9.83	-29.83	Pass
			2	-9.64	-29.64	Pass
802.11n (HT40)	SISO	2422	1	-14.43	-34.43	Pass
			2	-13.91	-33.91	Pass
		2437	1	-13.56	-33.56	Pass
			2	-13.29	-33.29	Pass
		2452	1	-12.82	-32.82	Pass
			2	-12.66	-32.66	Pass

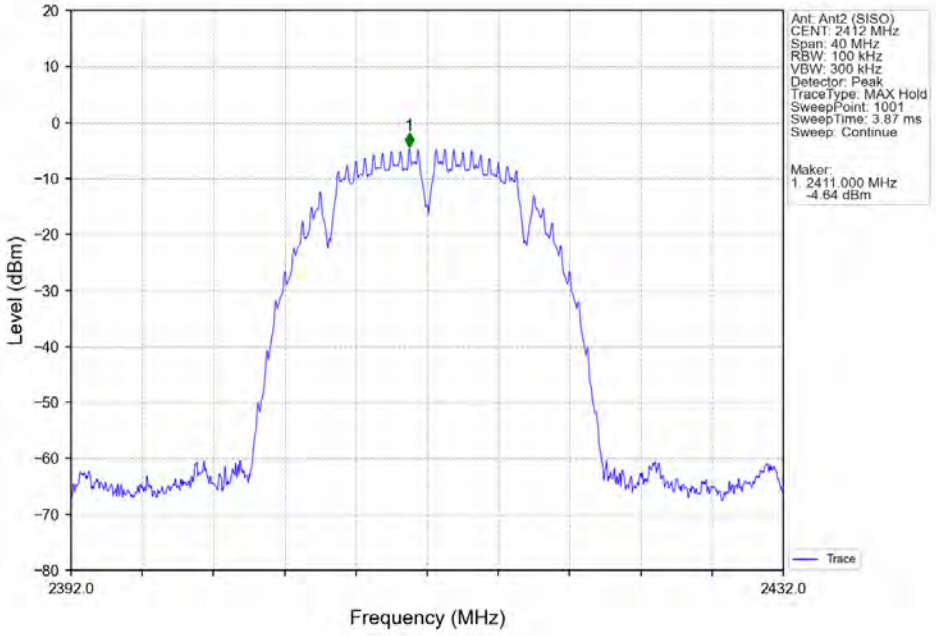
5.2 Test Graph

5.2.1 Ref

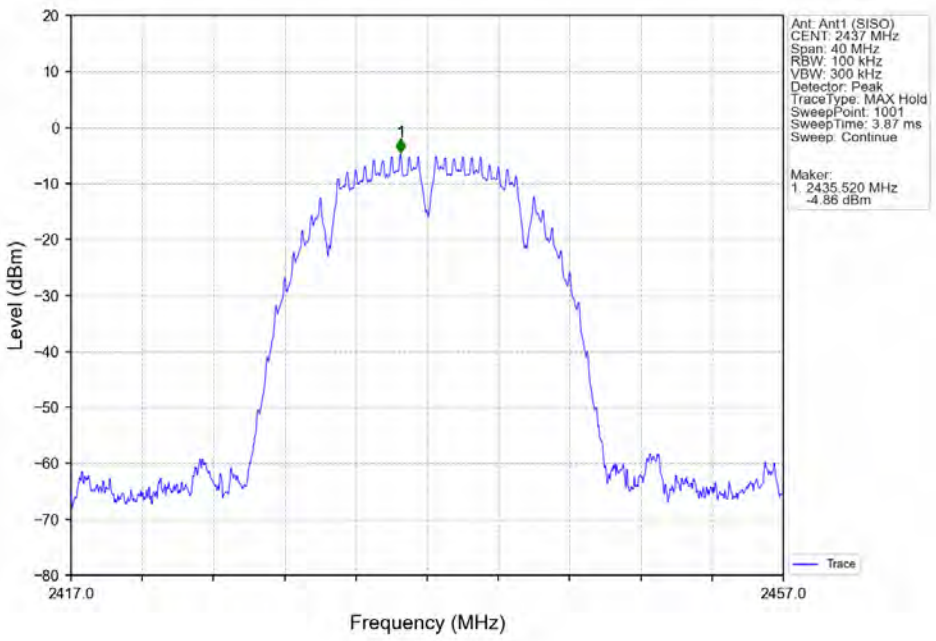
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



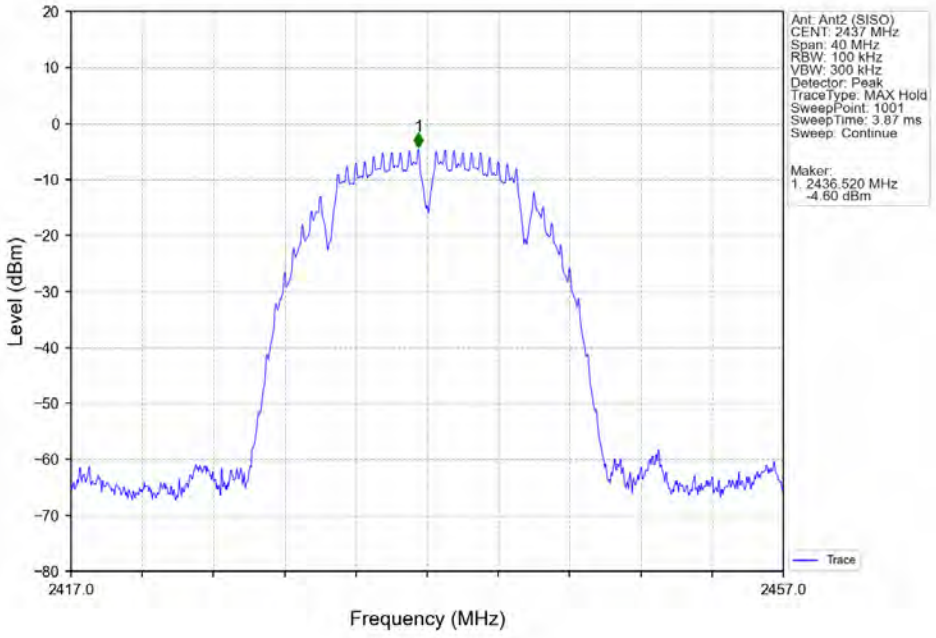
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



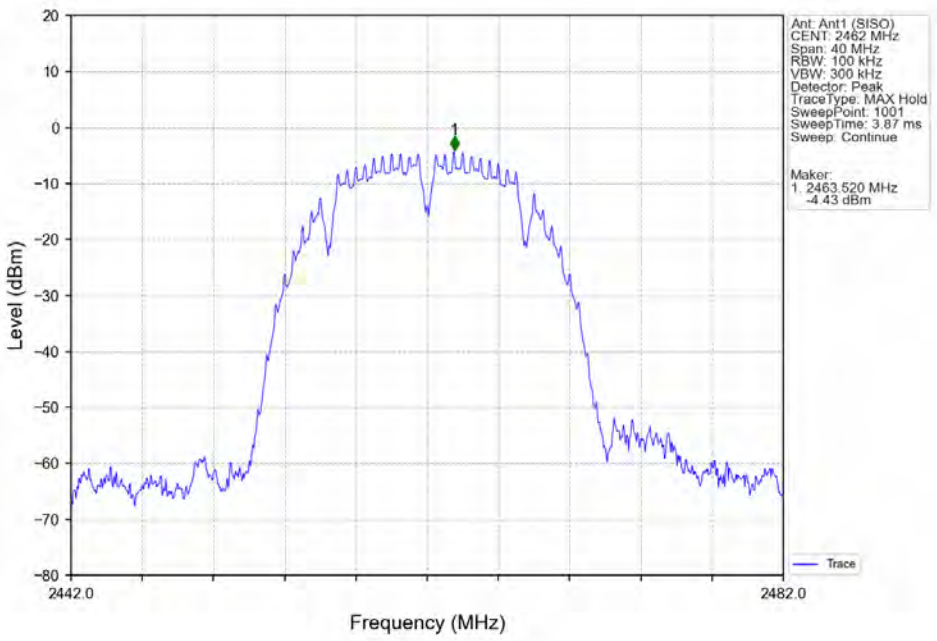
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



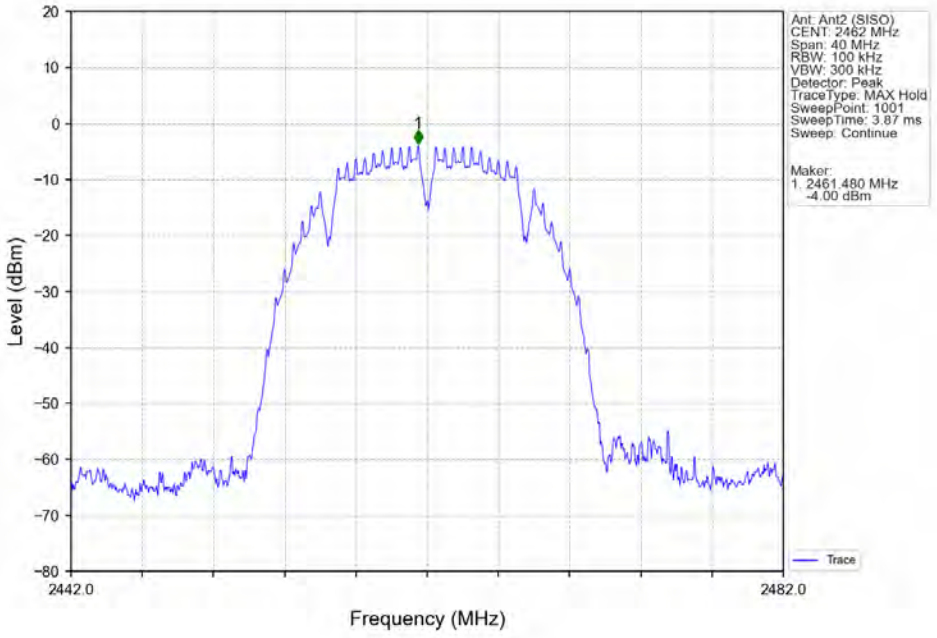
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



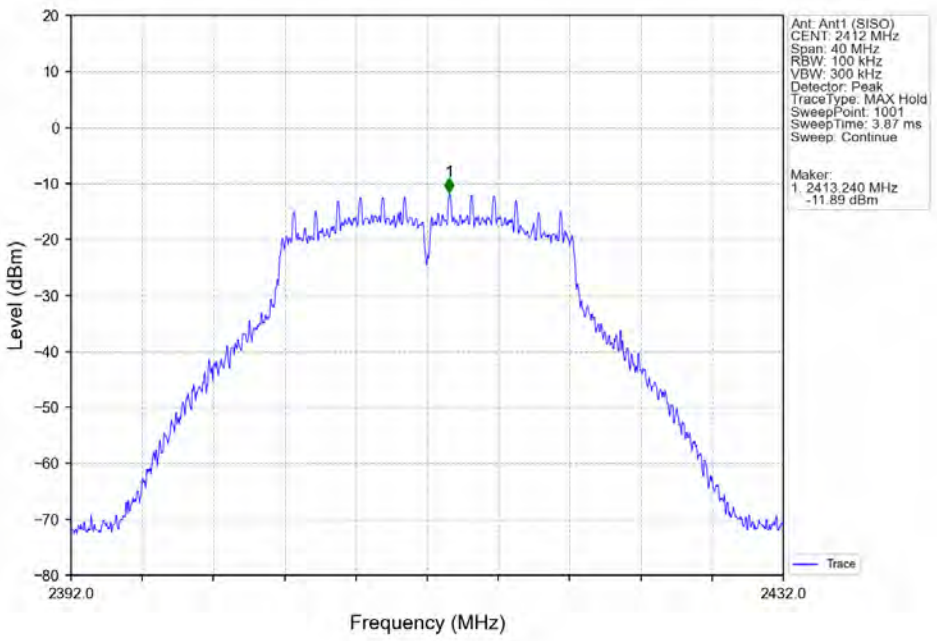
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



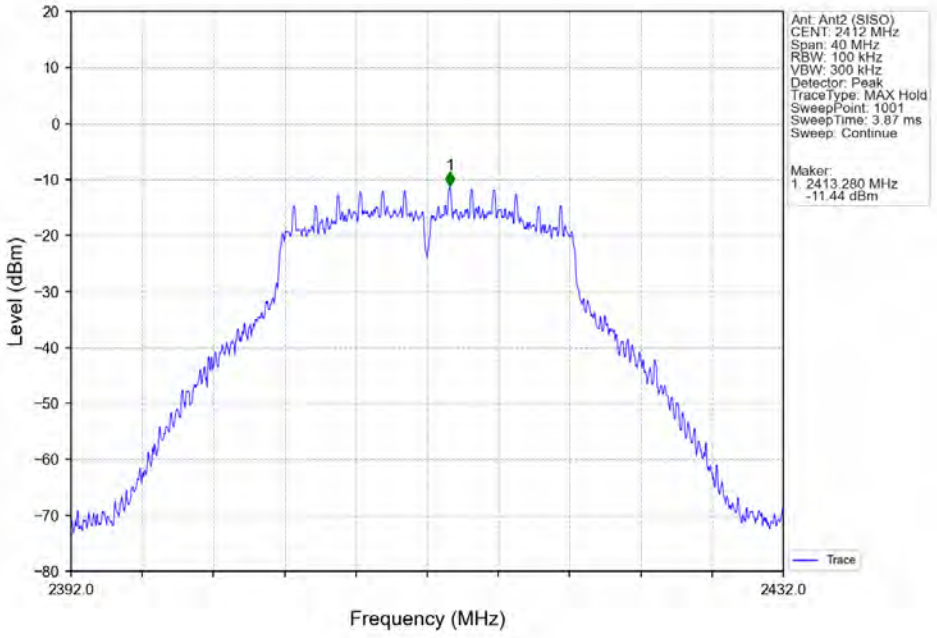
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



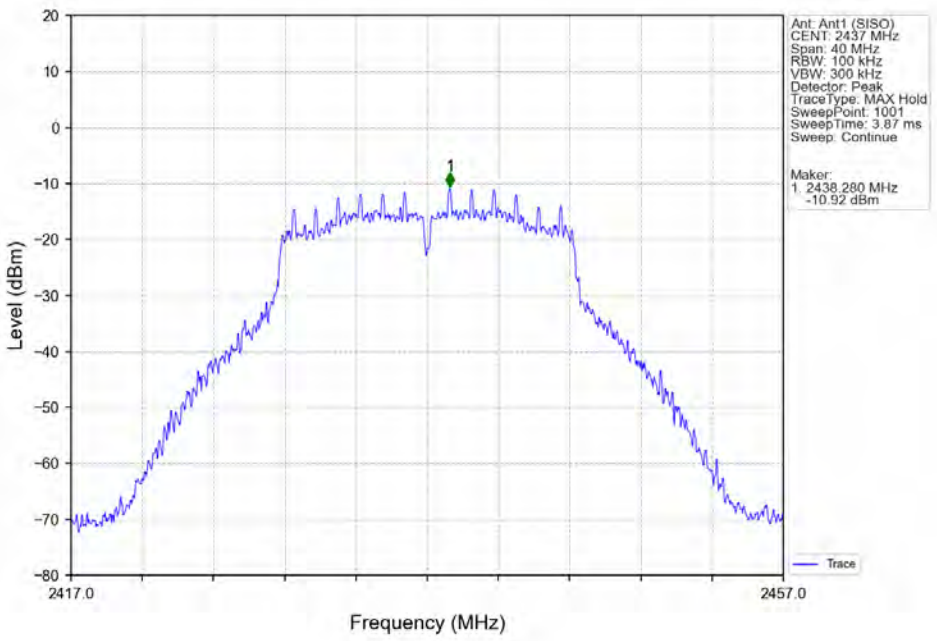
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



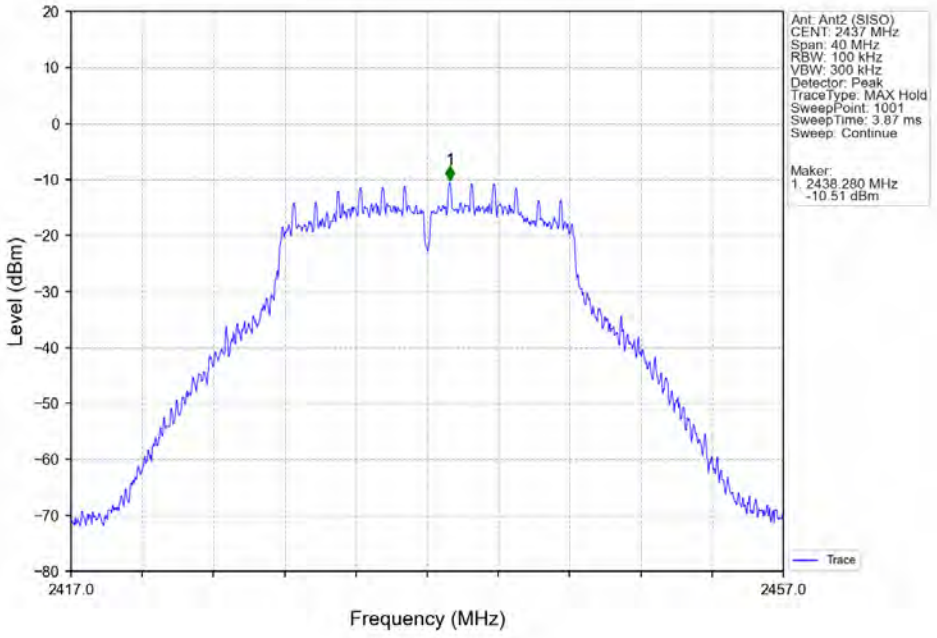
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



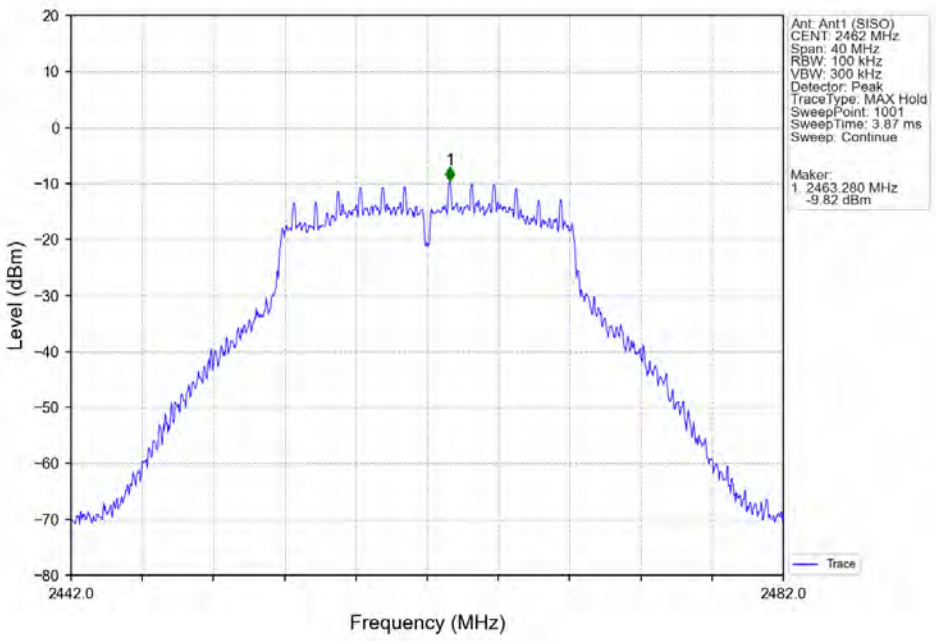
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



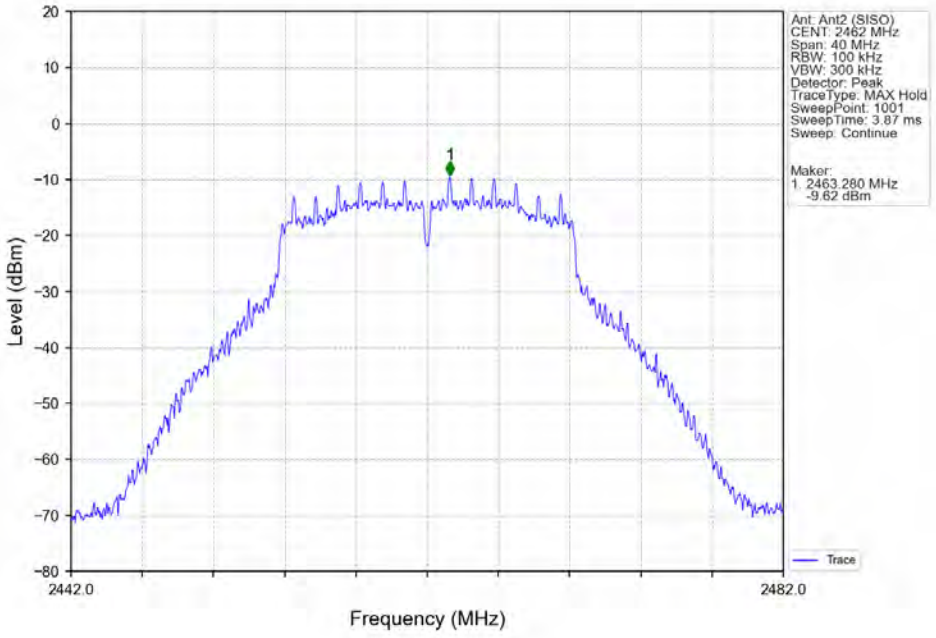
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



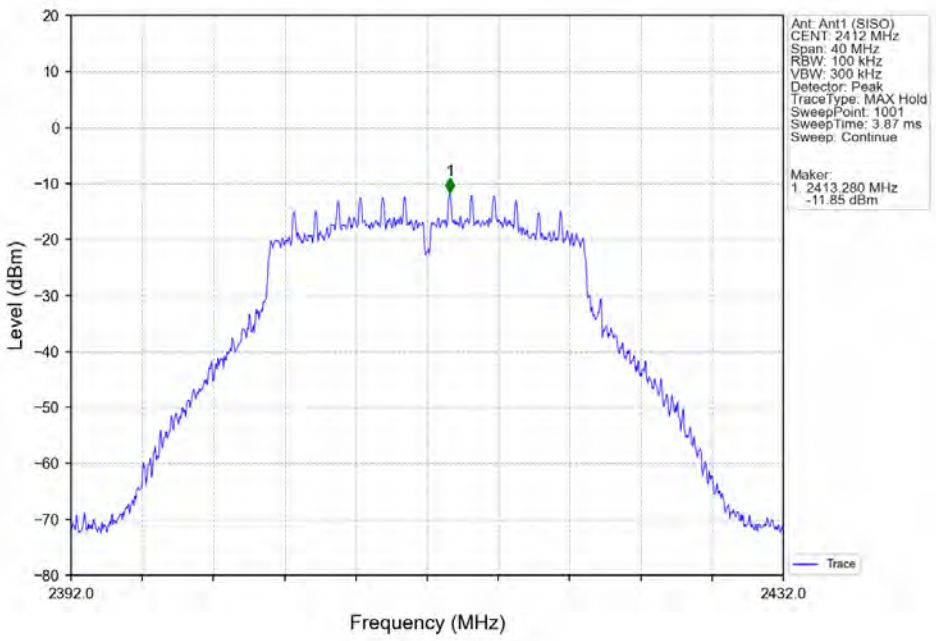
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



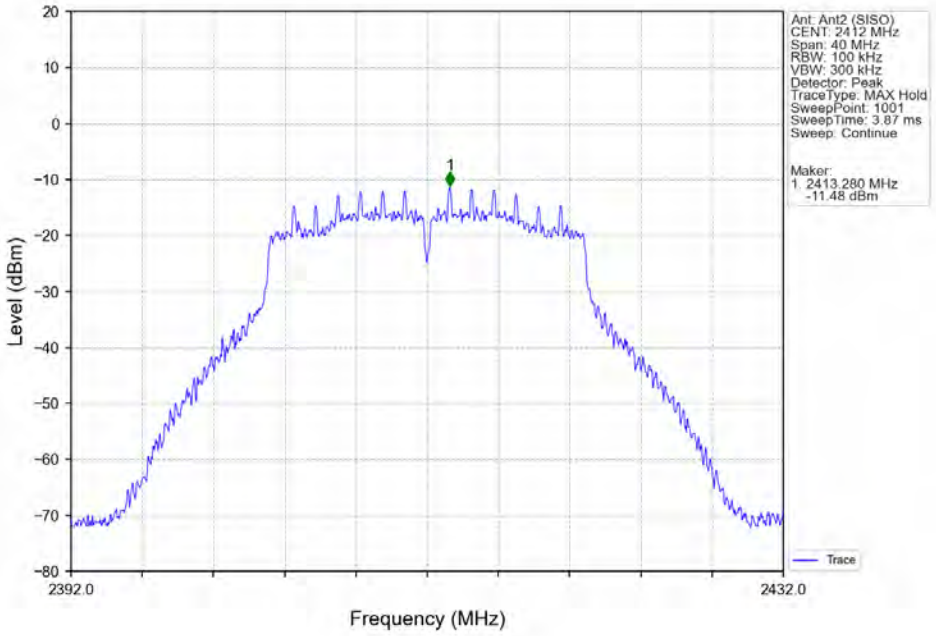
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



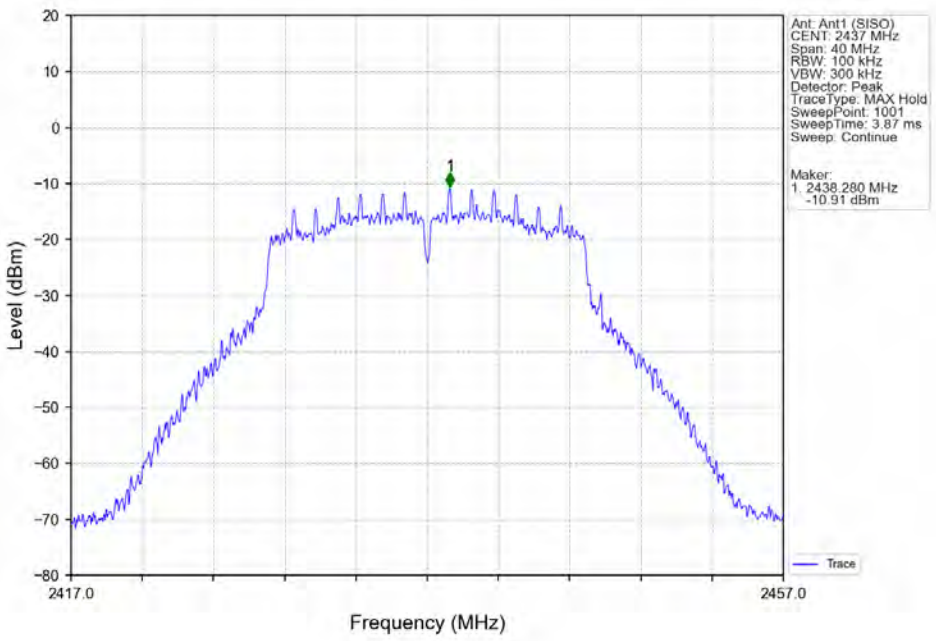
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



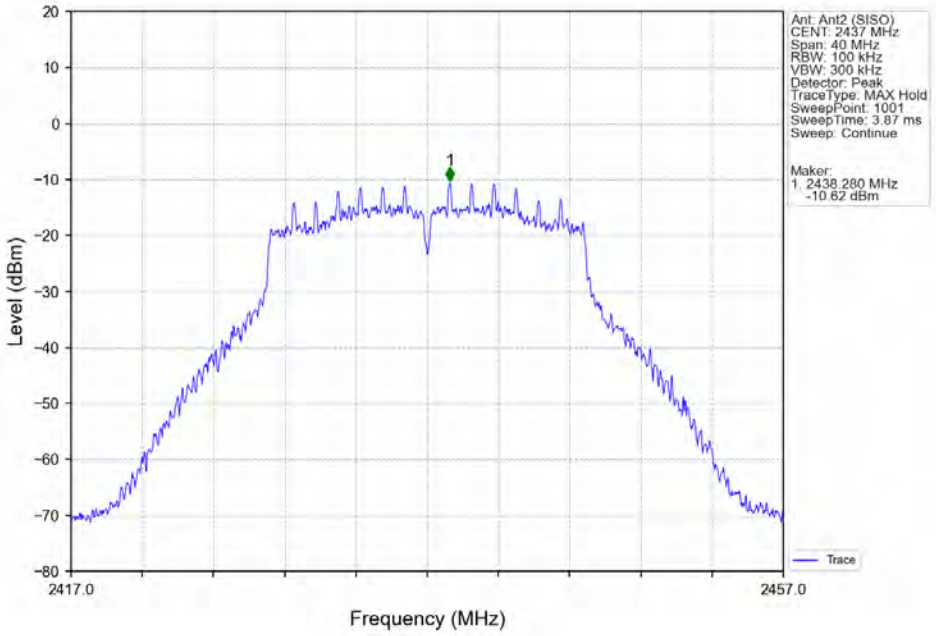
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



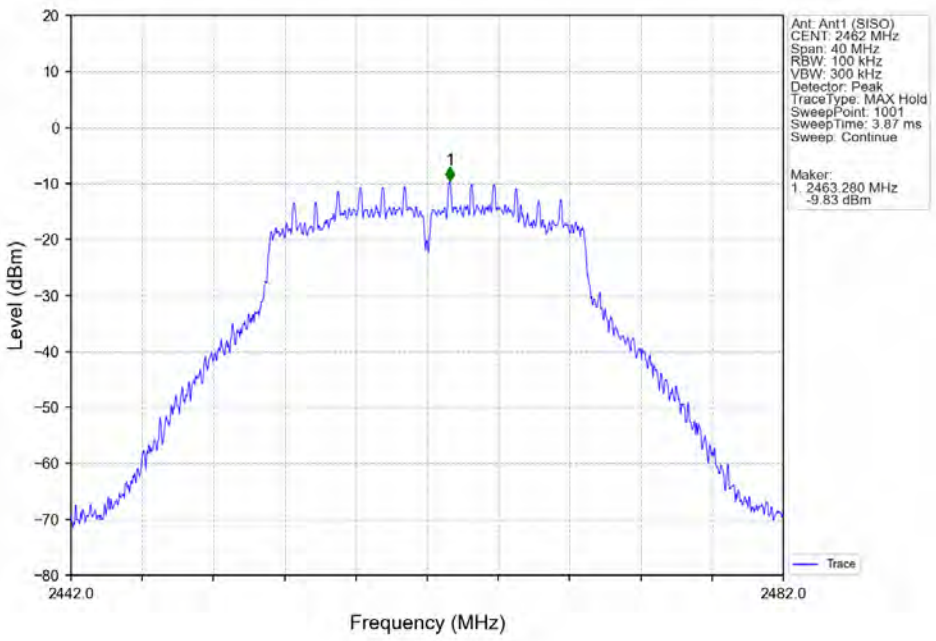
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



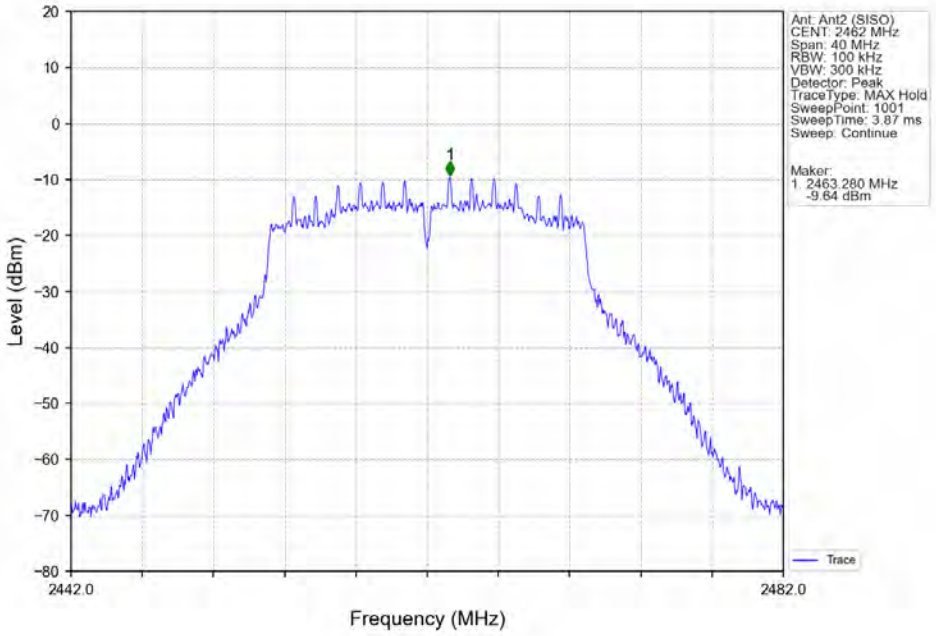
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



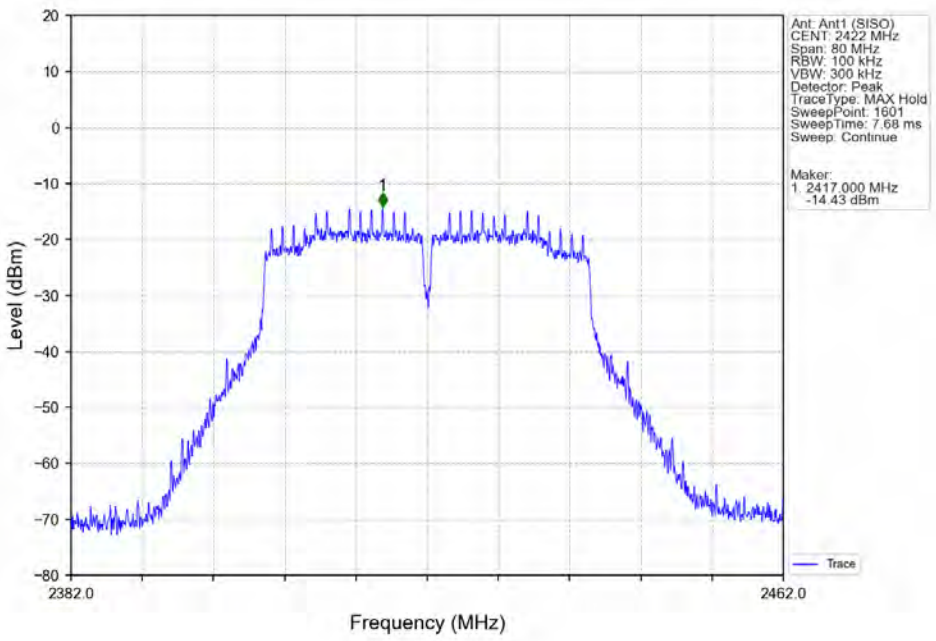
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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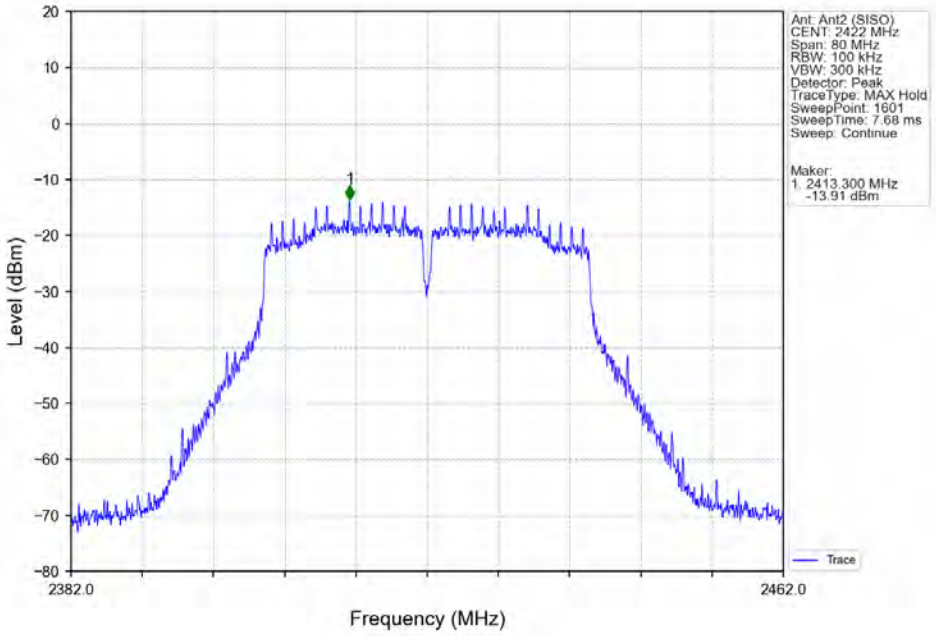

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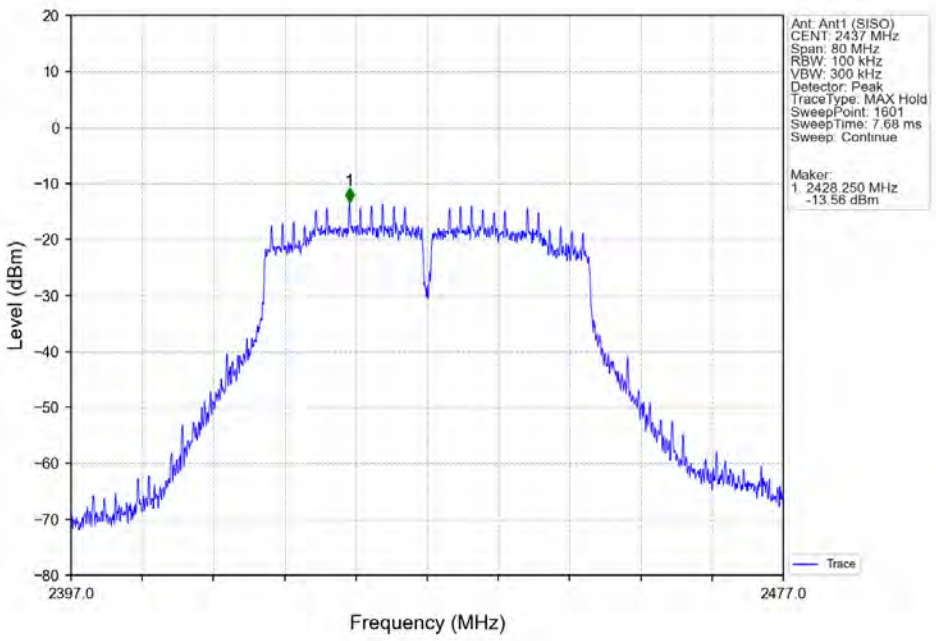

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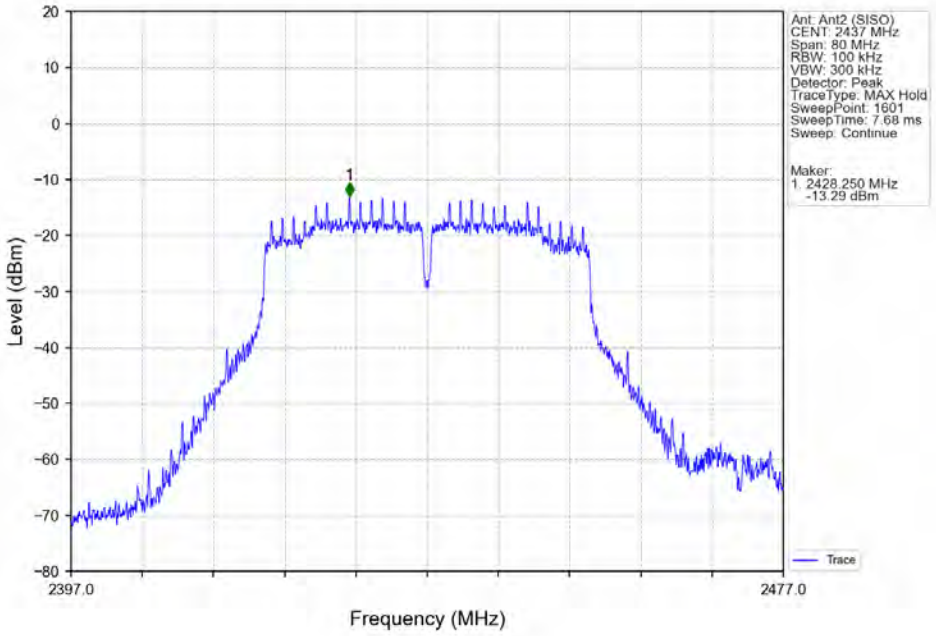

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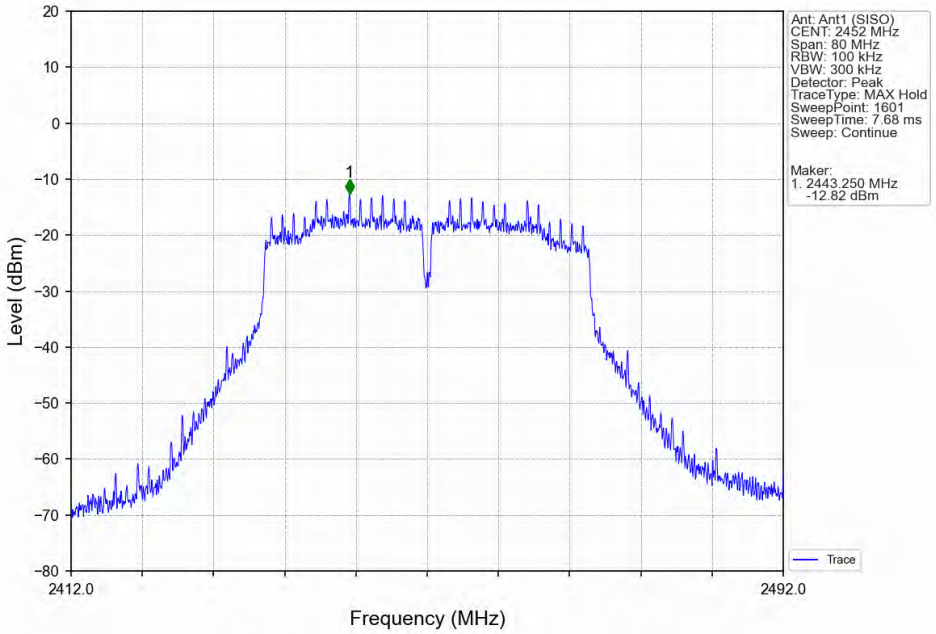

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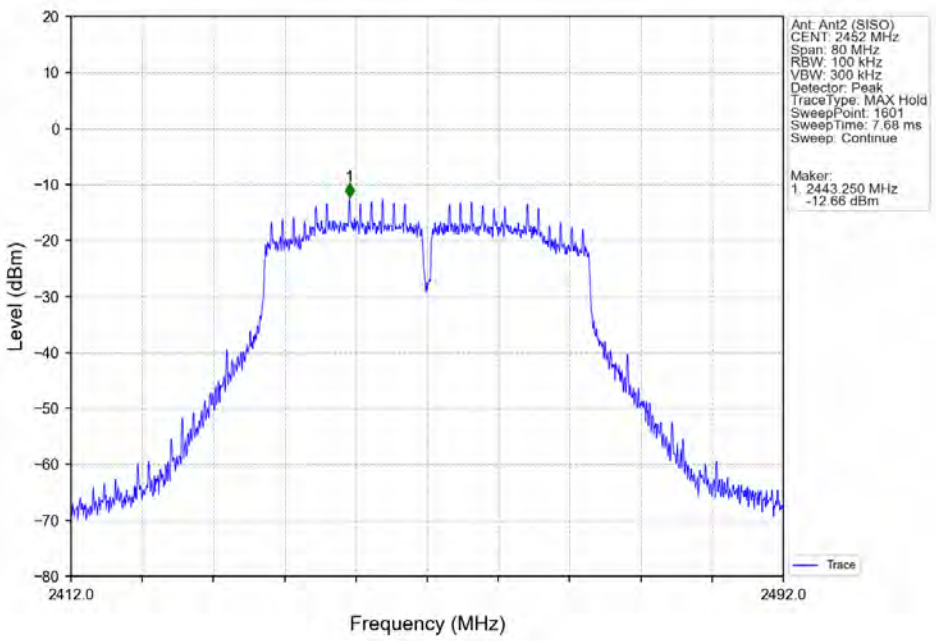
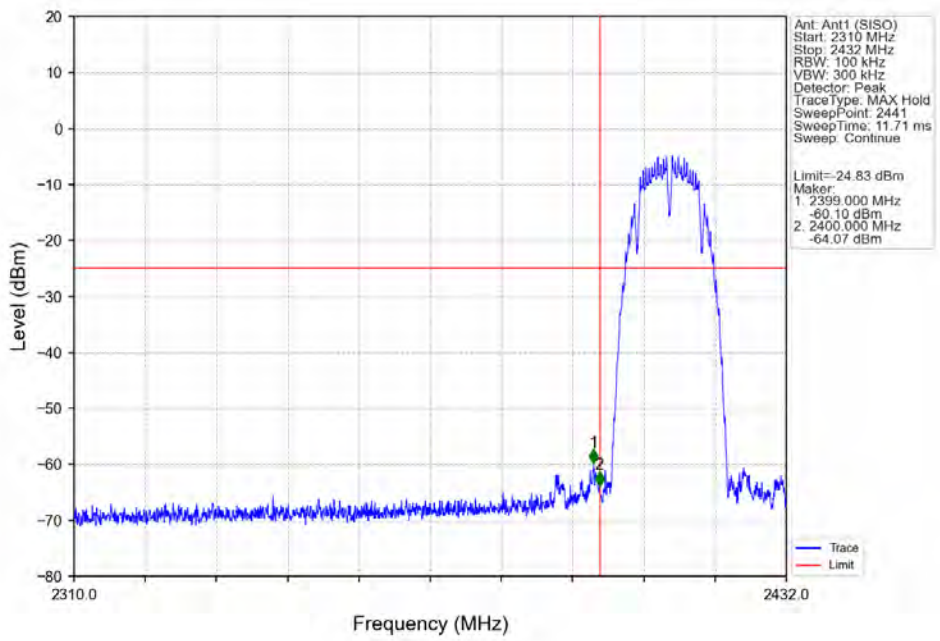


5.2.2 CSE

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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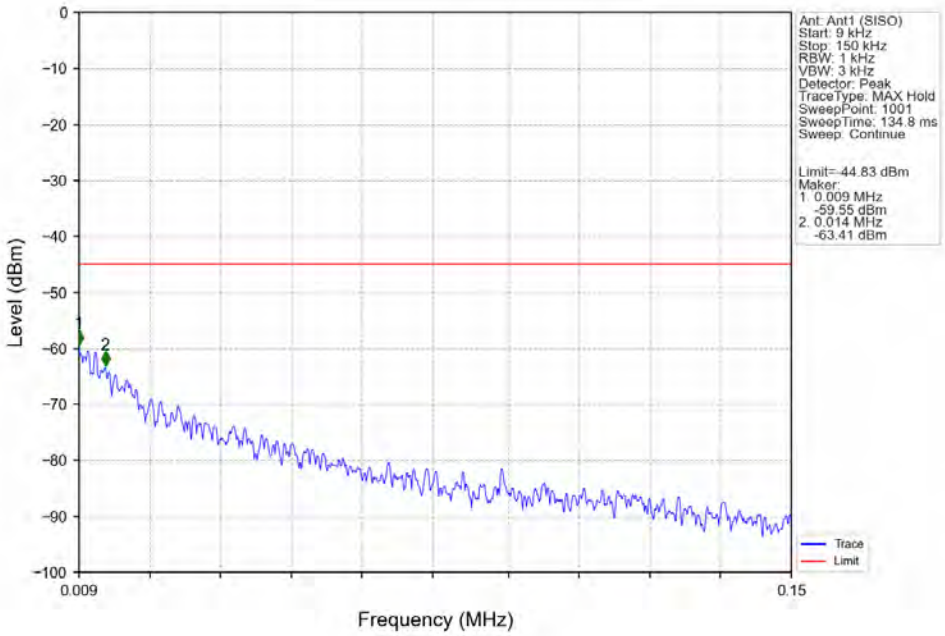

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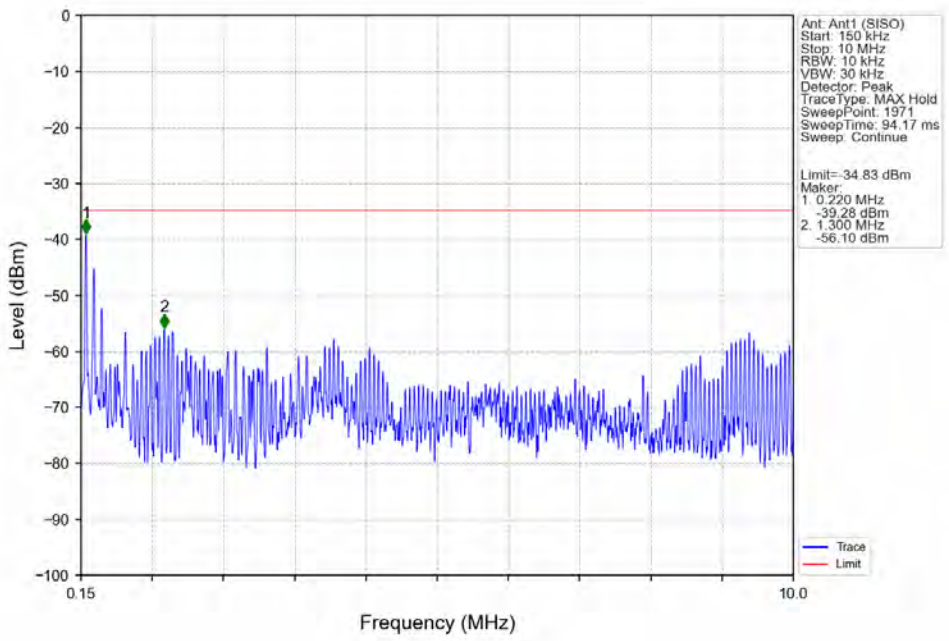

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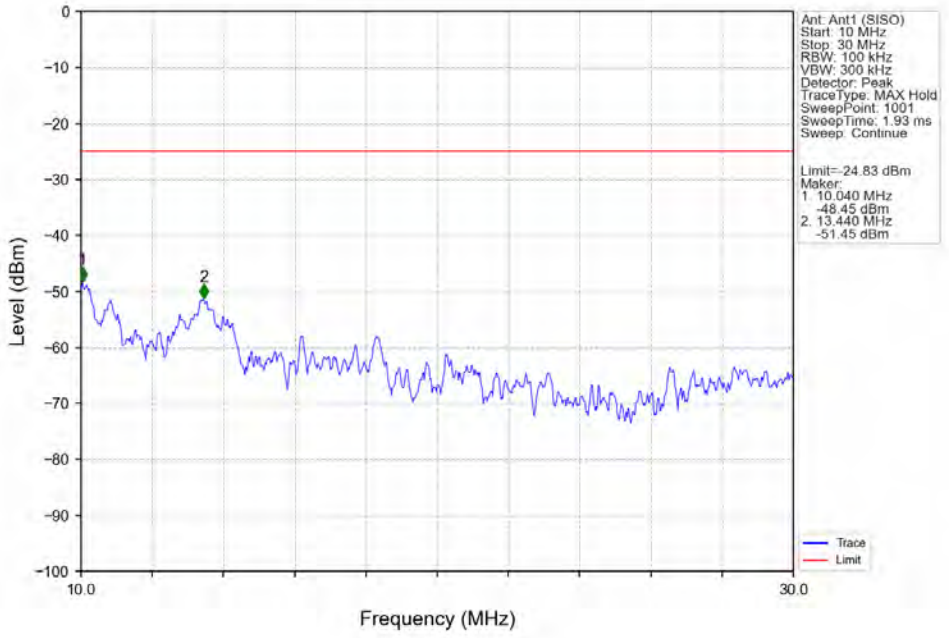

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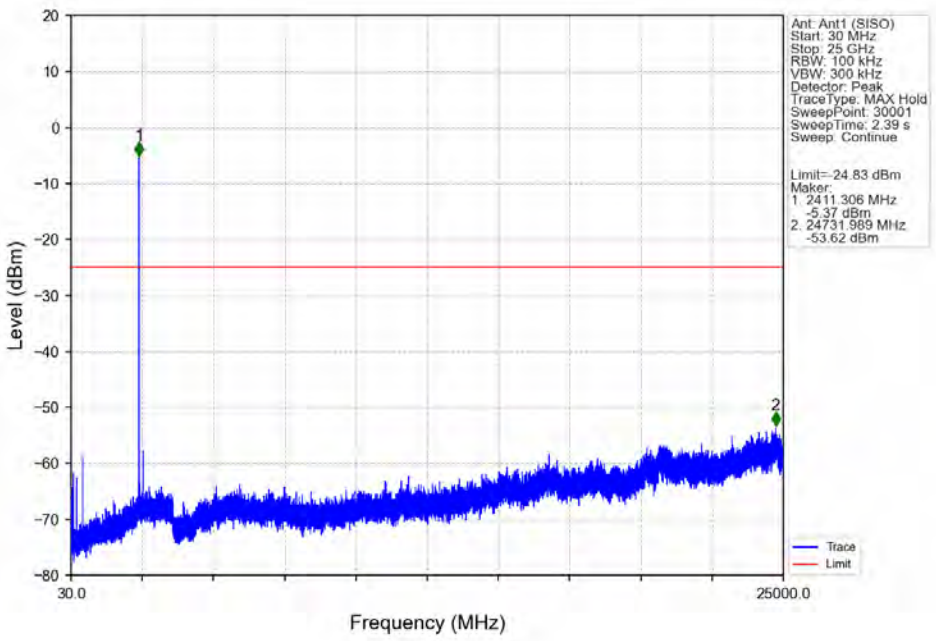

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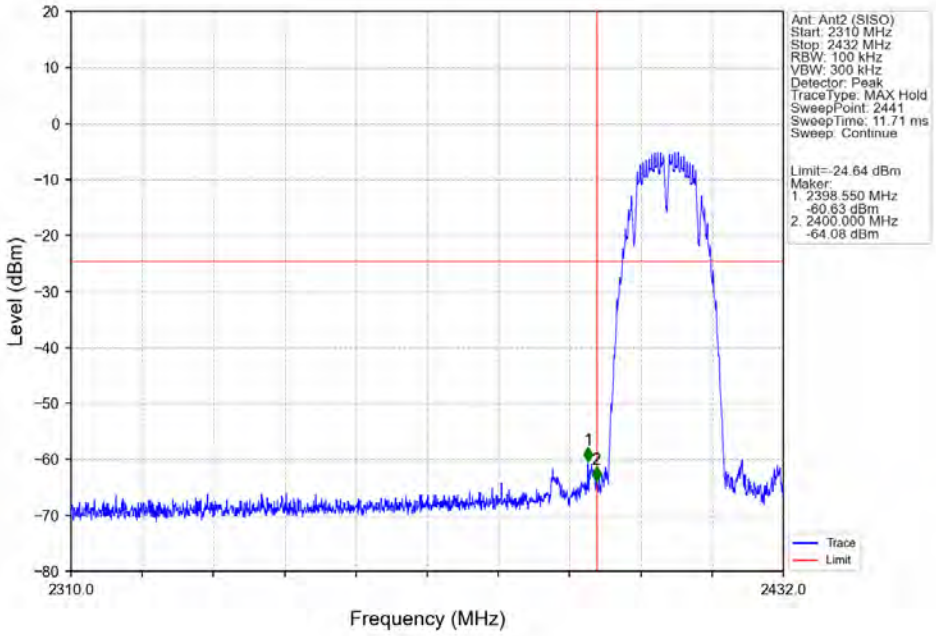
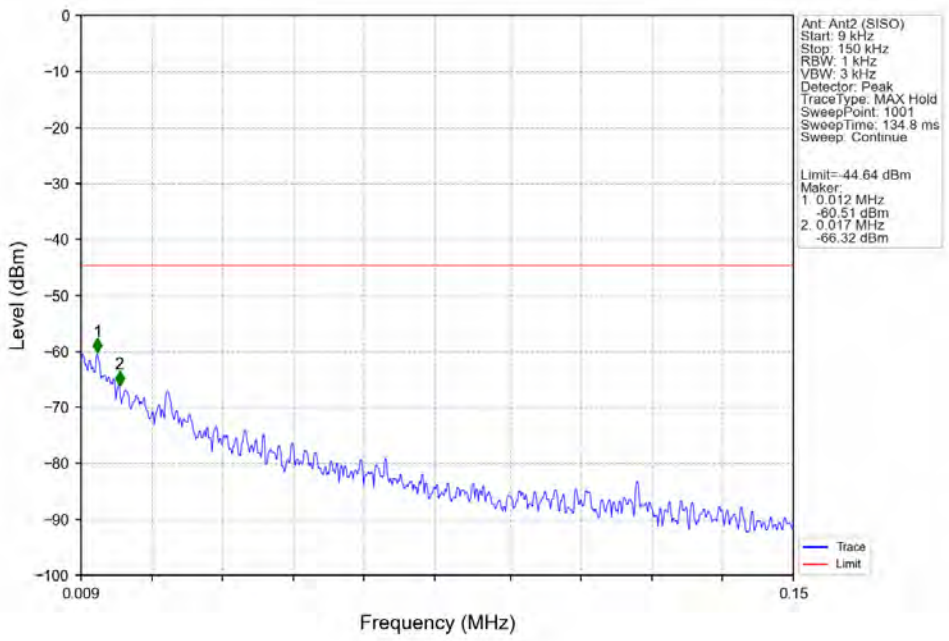
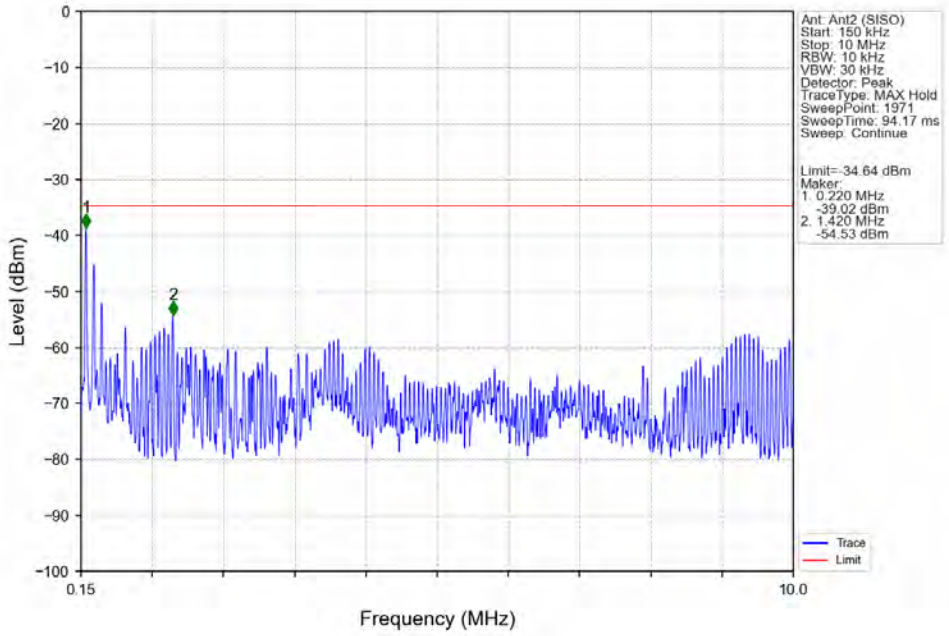


802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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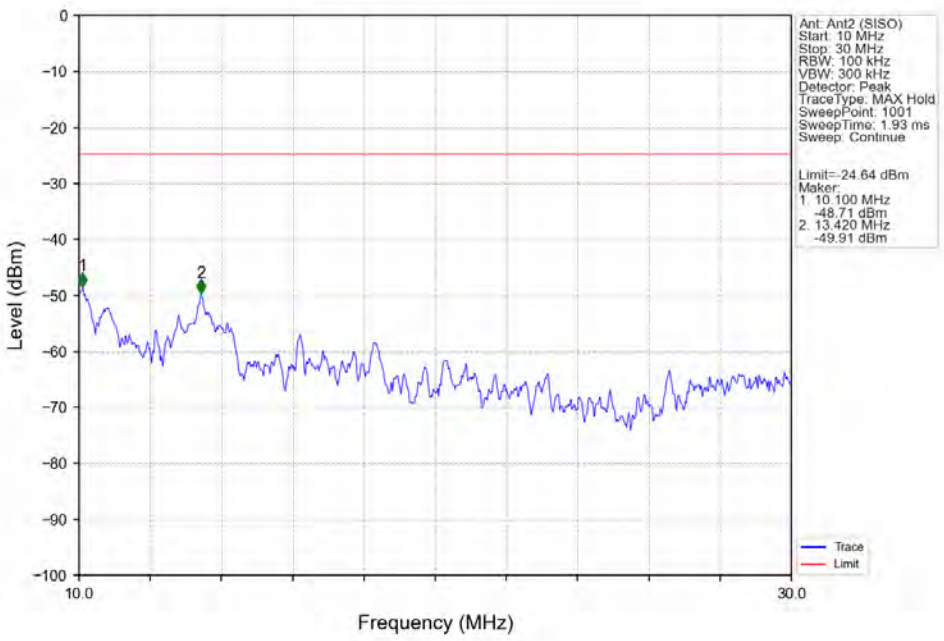

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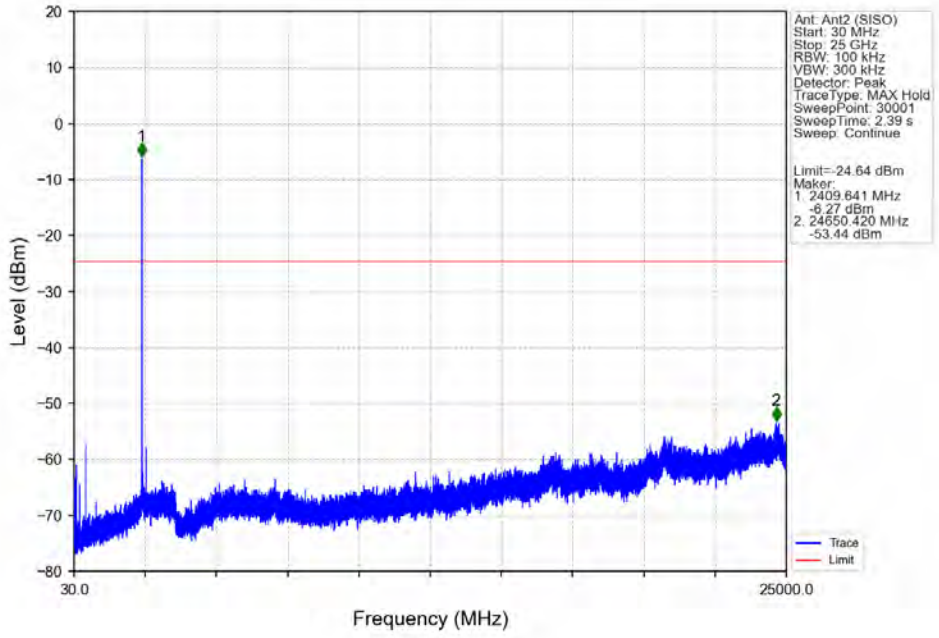
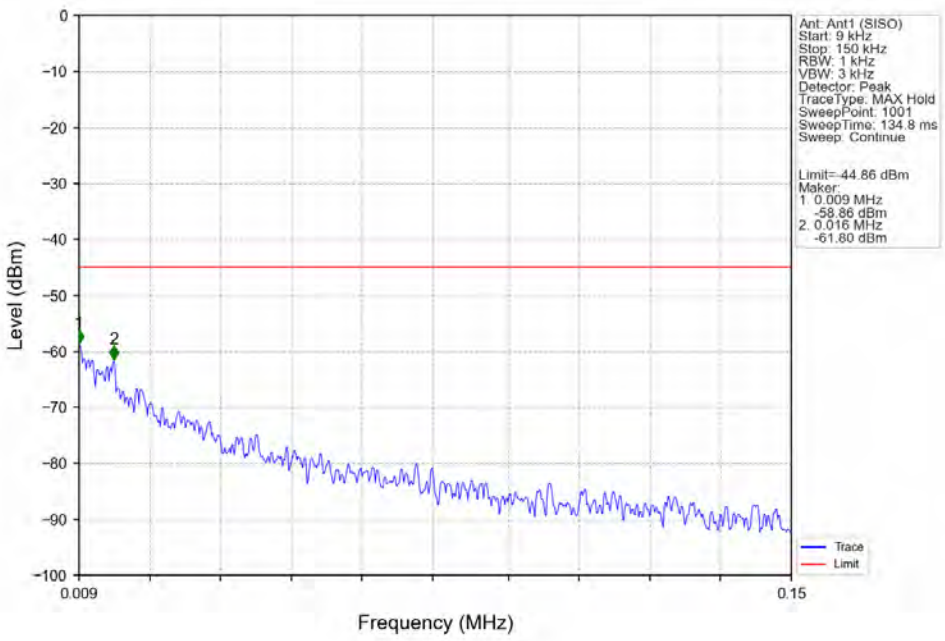


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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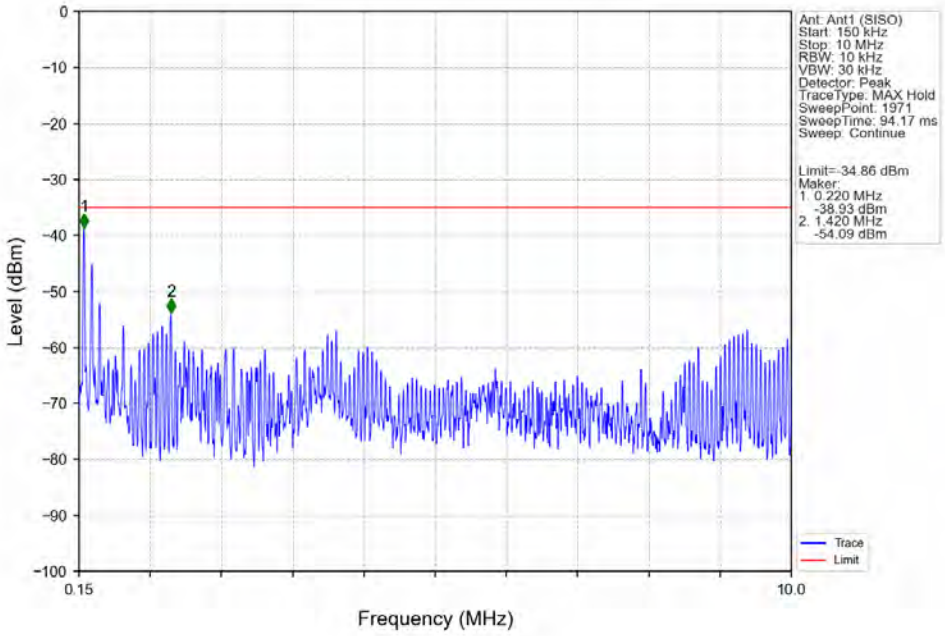

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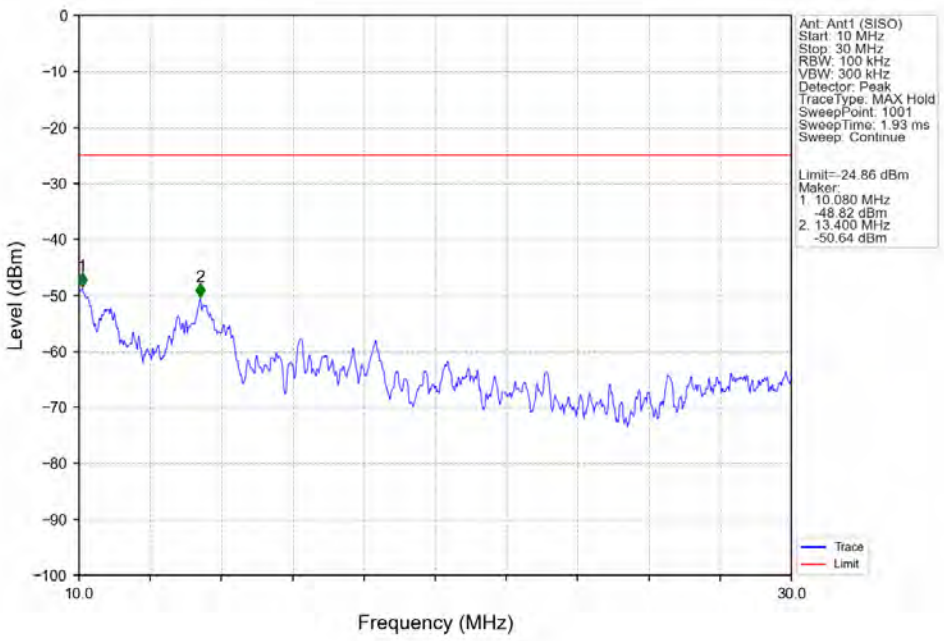
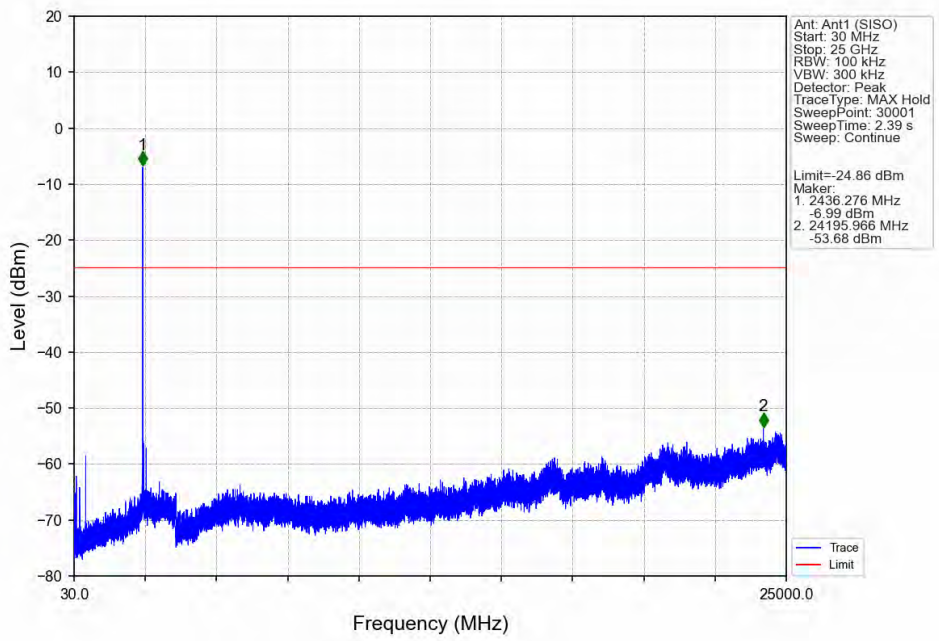
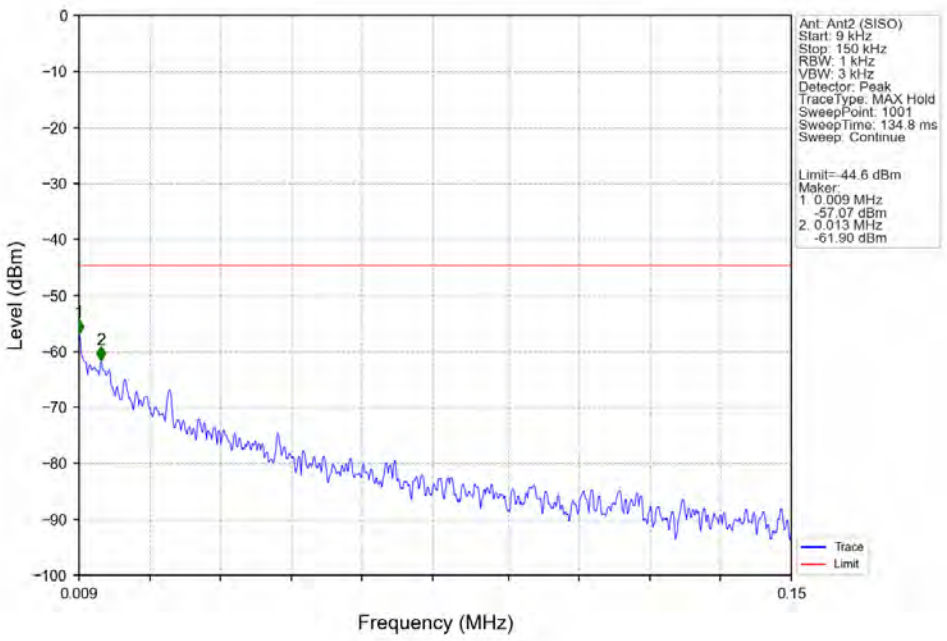


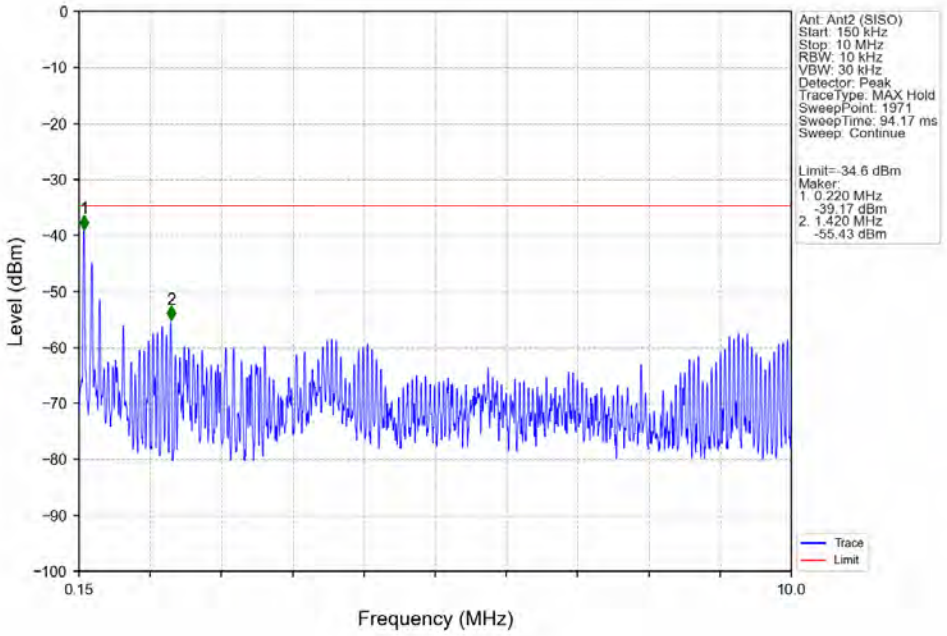
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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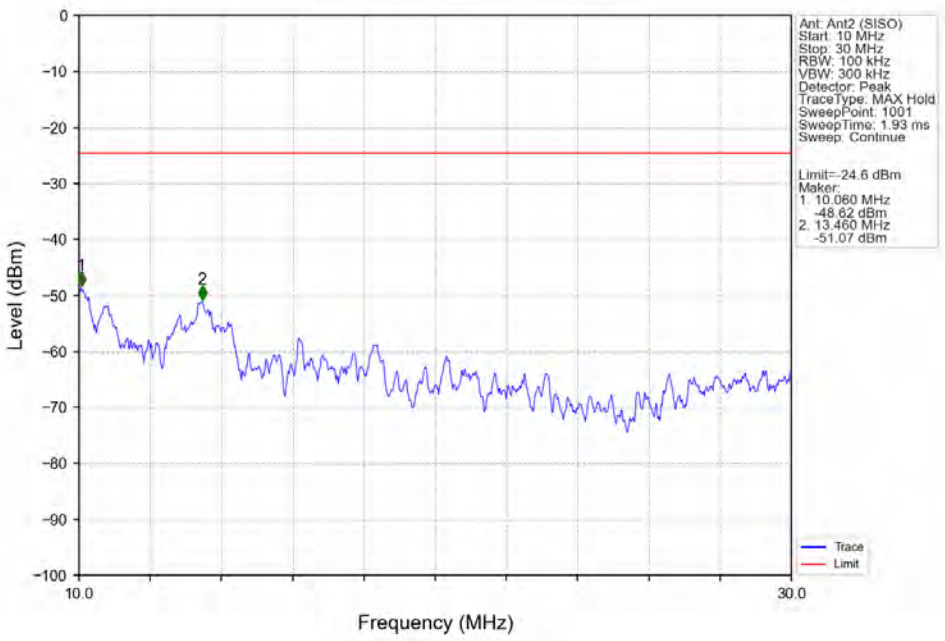

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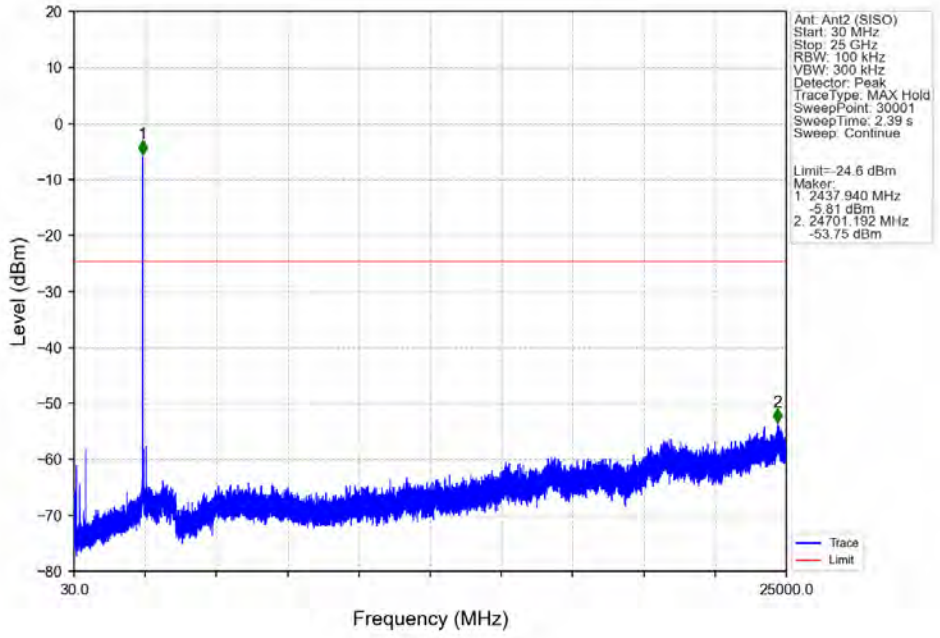

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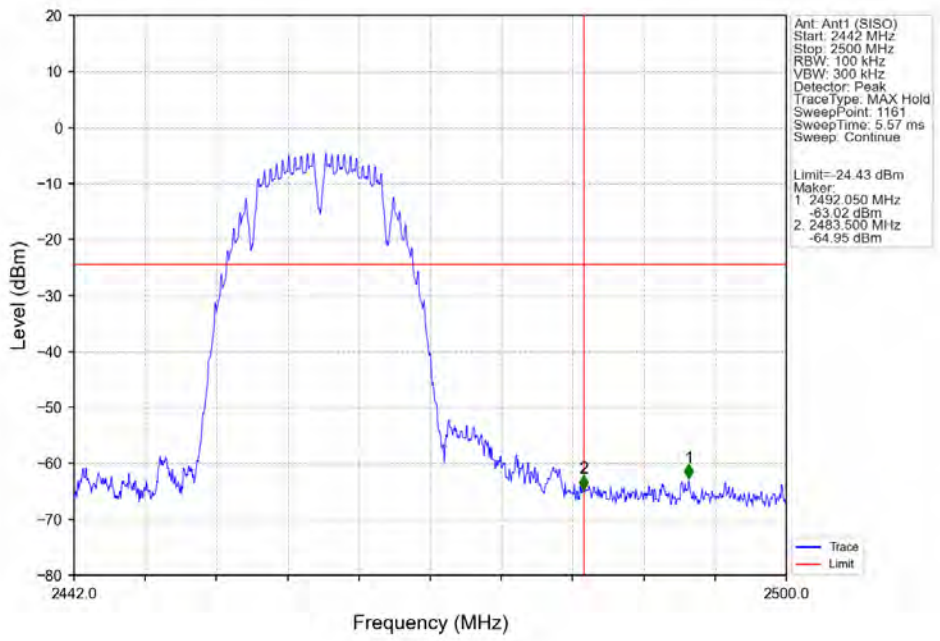

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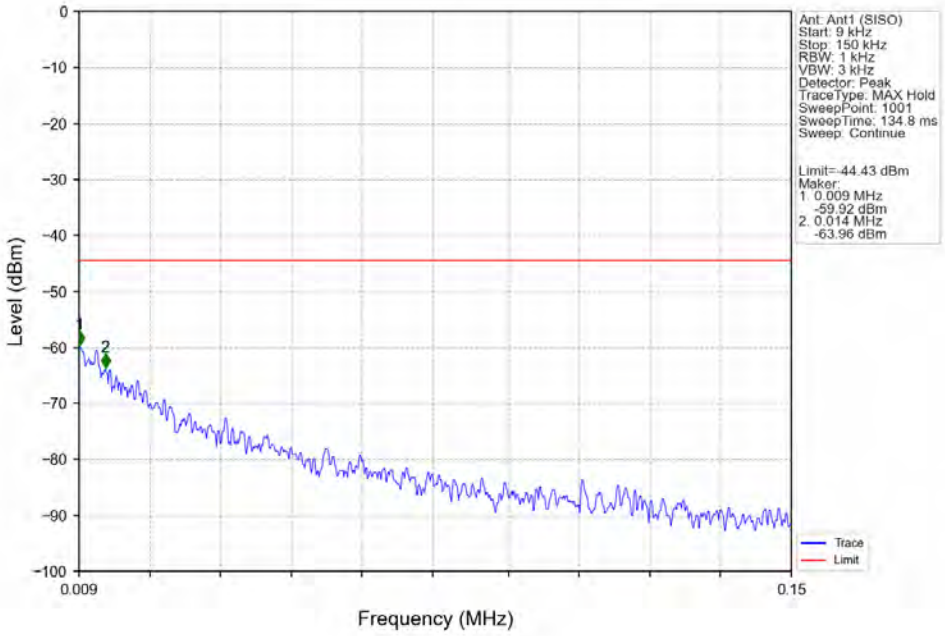

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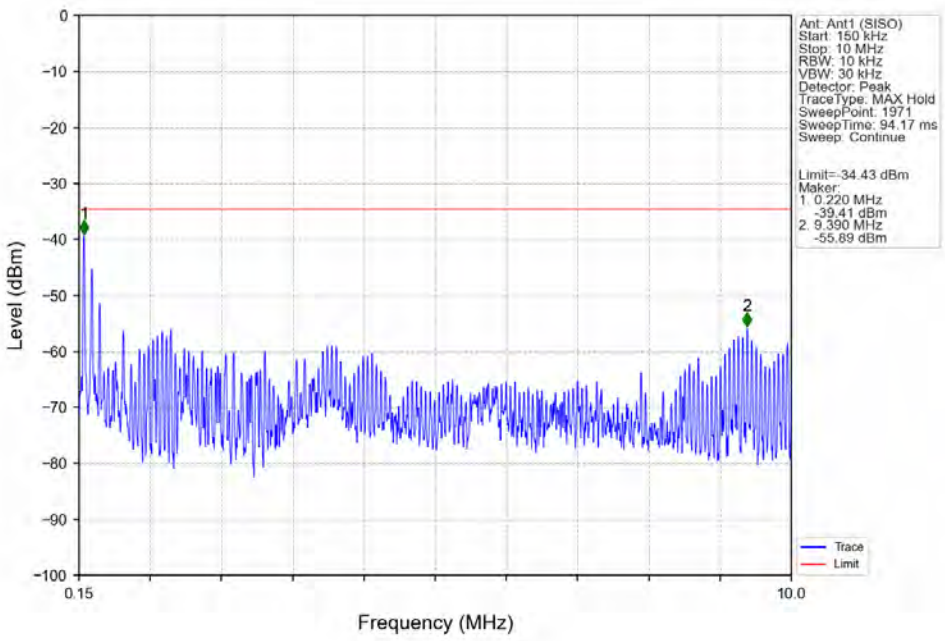

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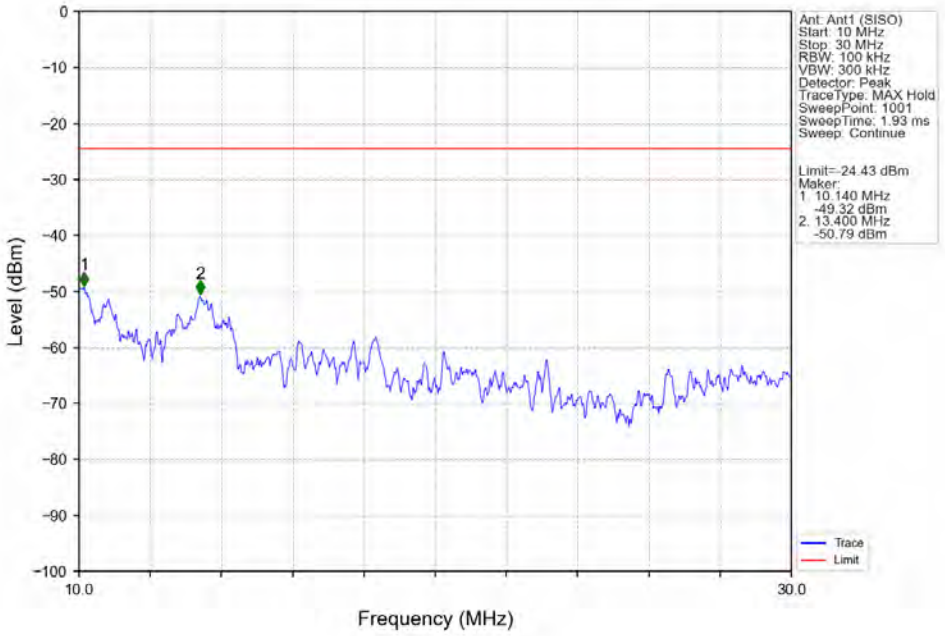

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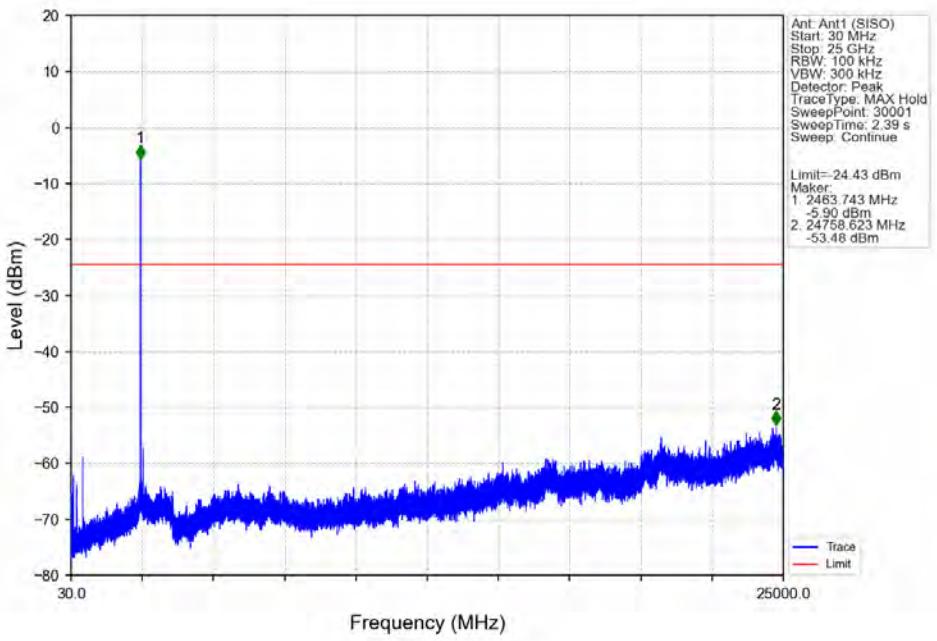

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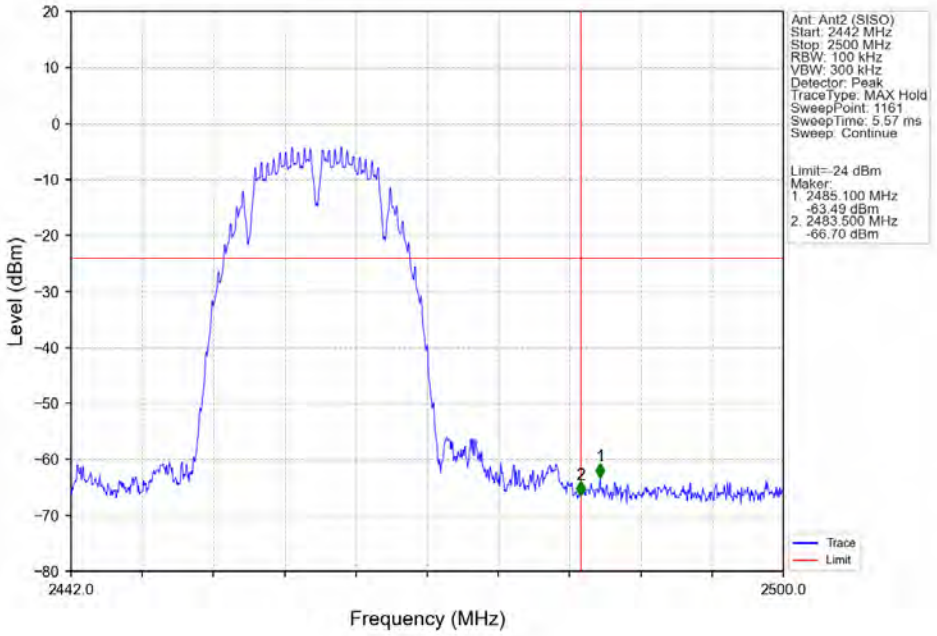

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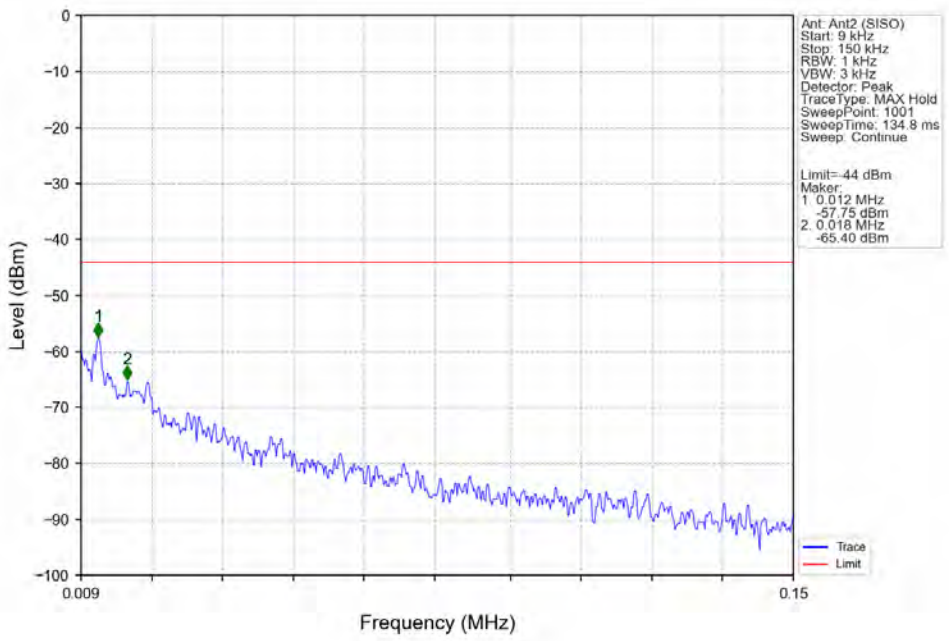
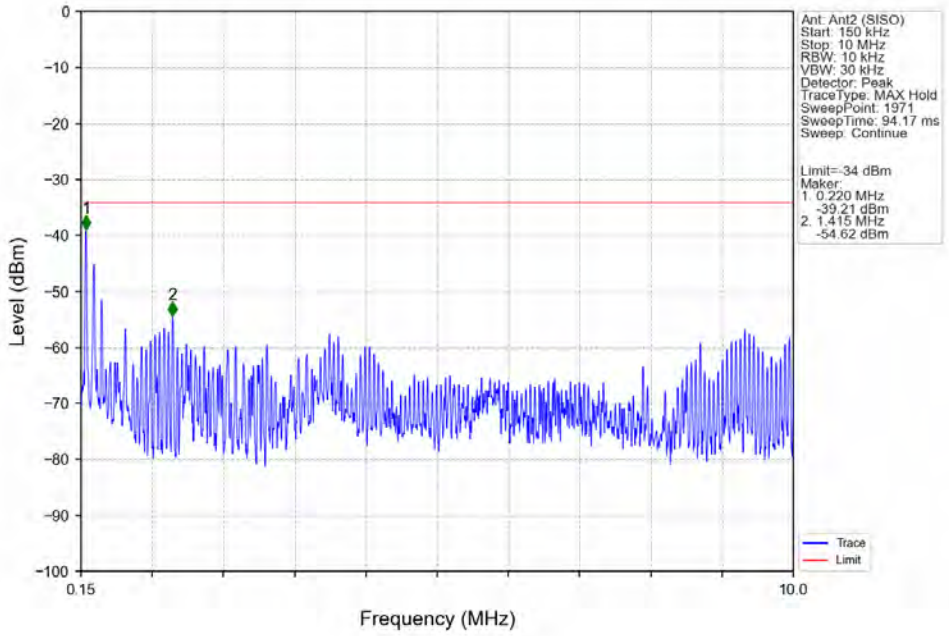


802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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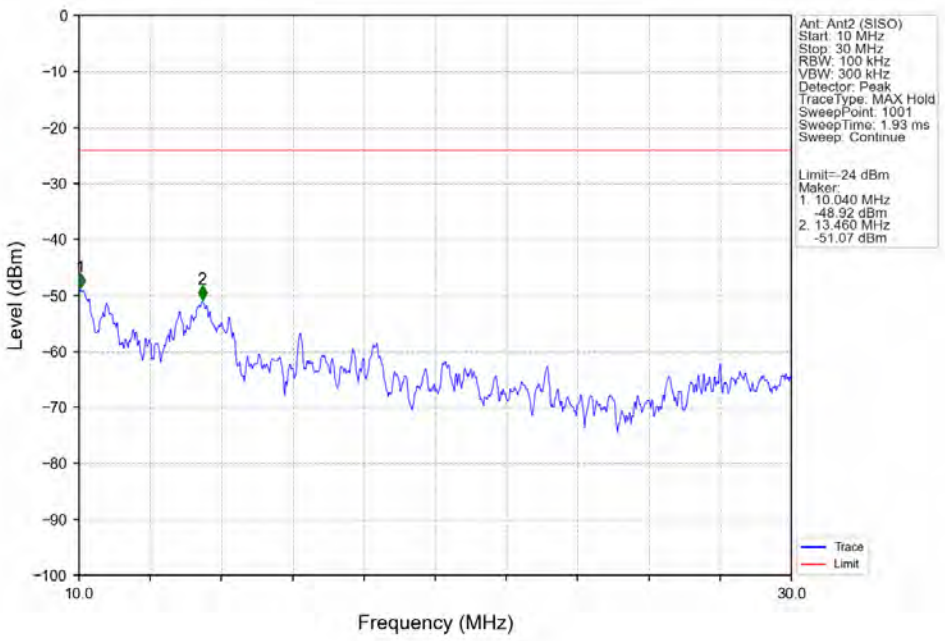

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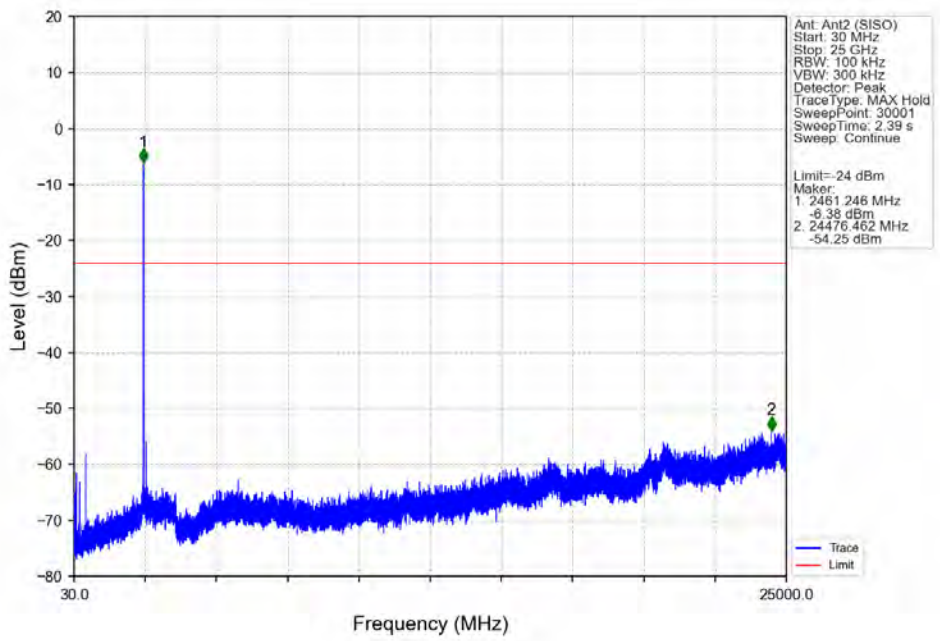
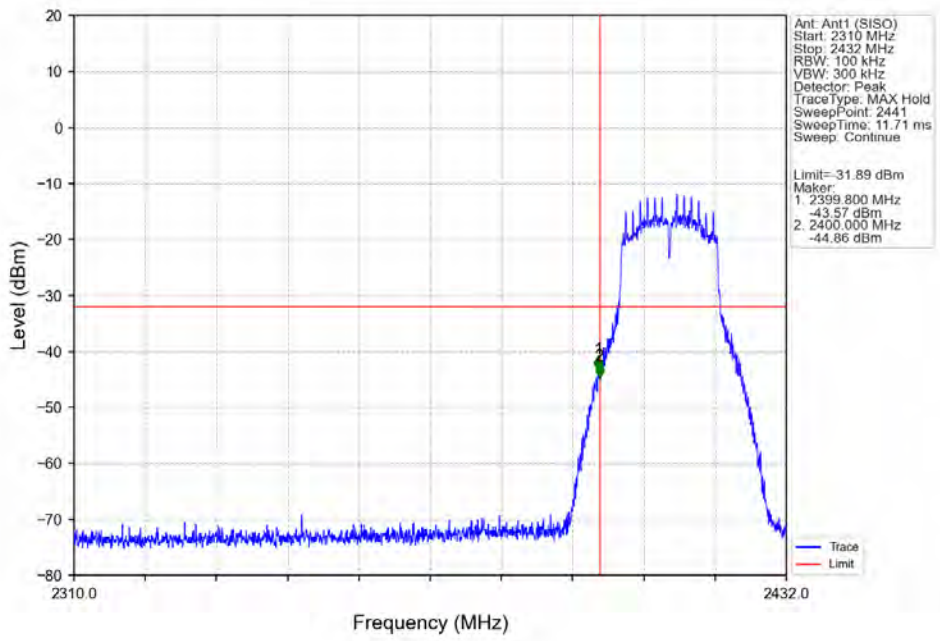


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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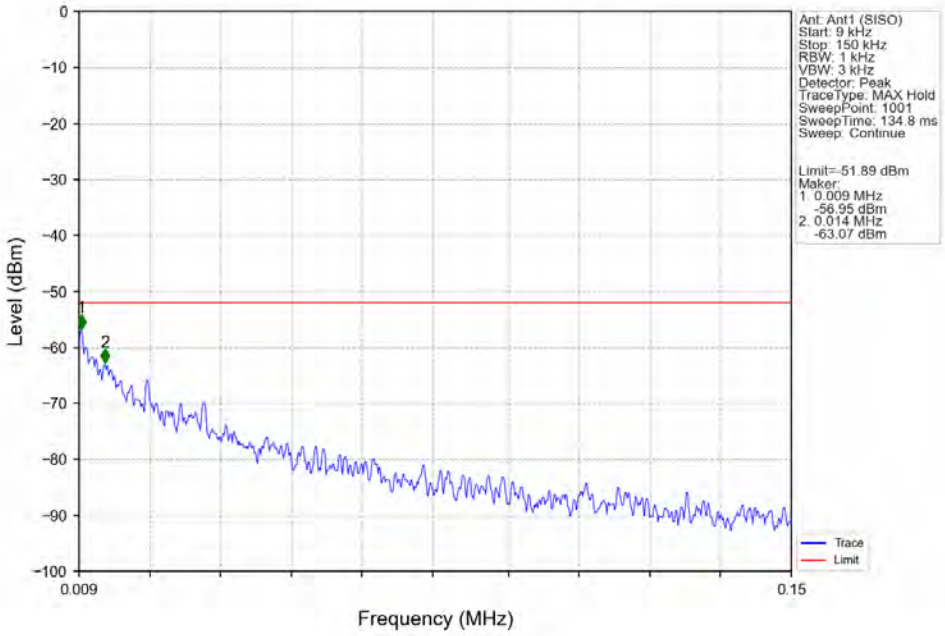

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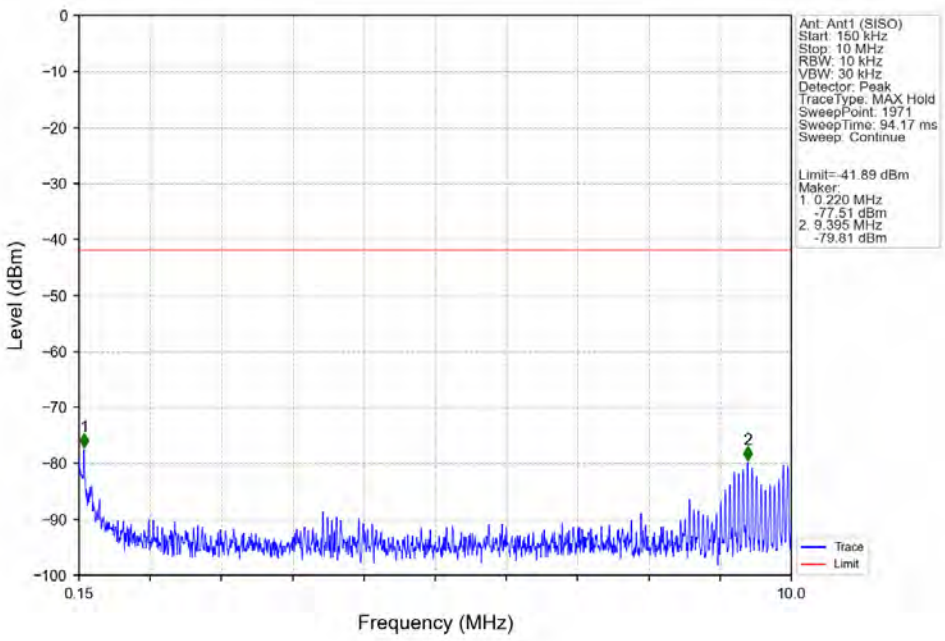

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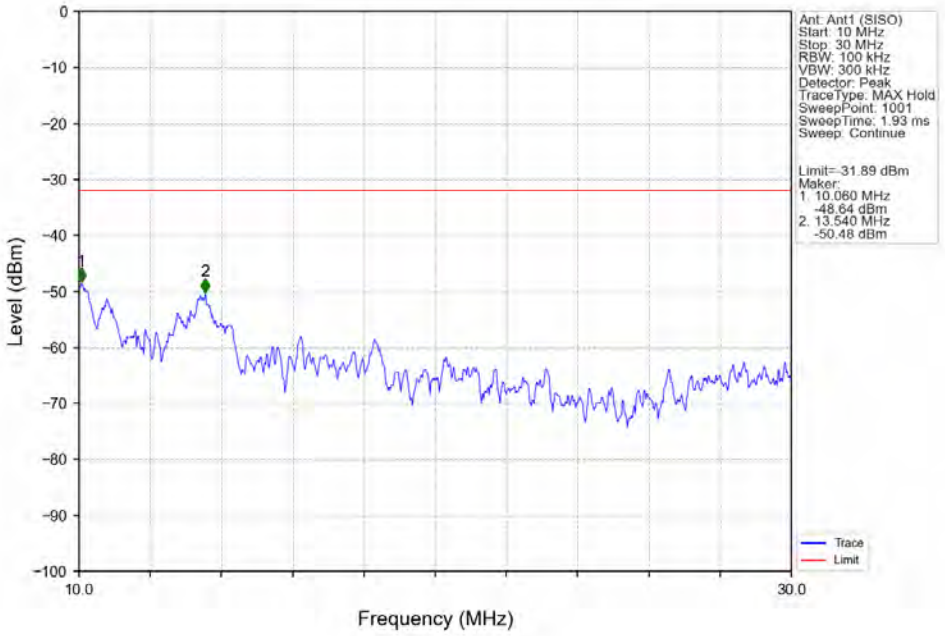

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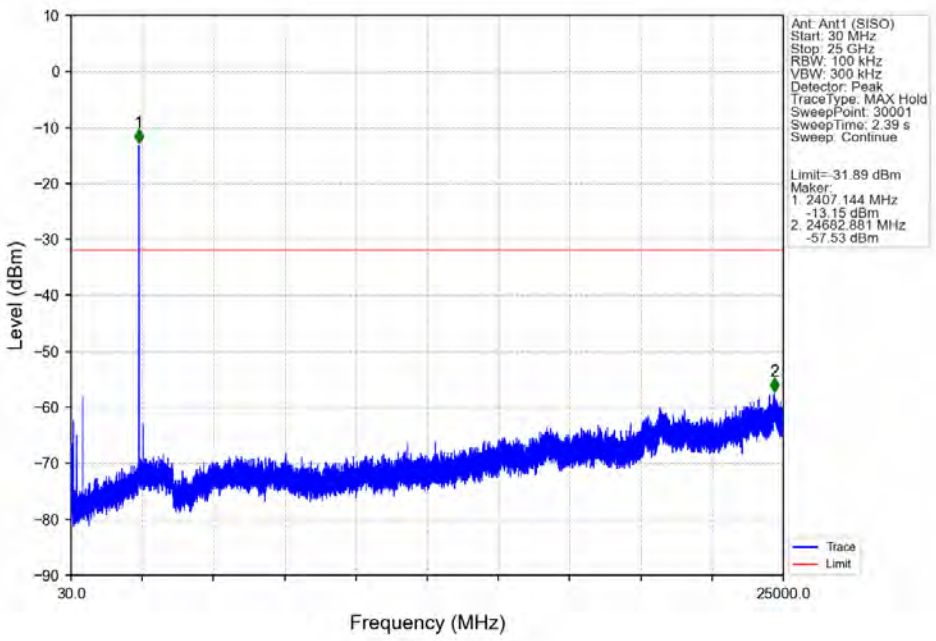

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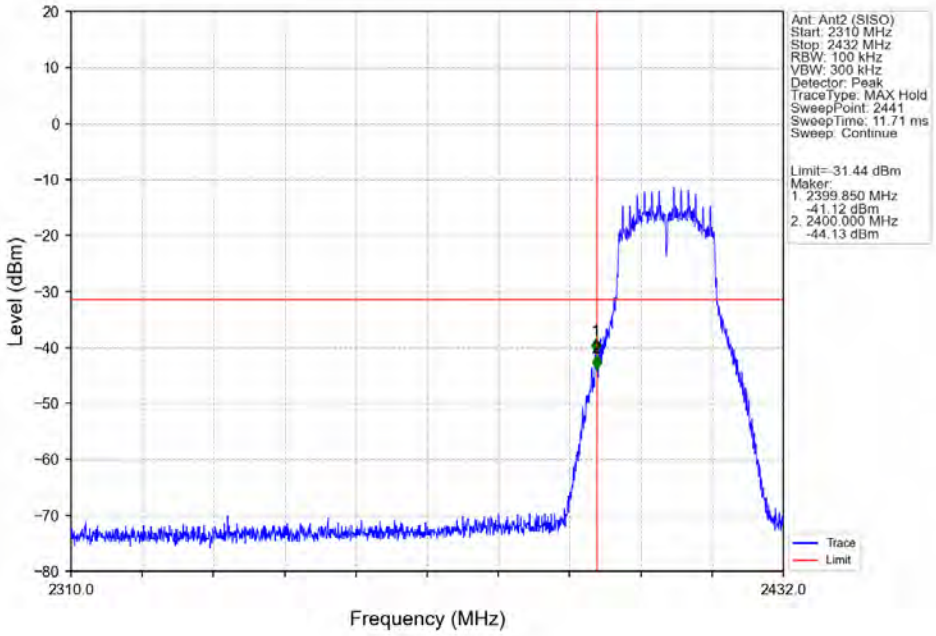

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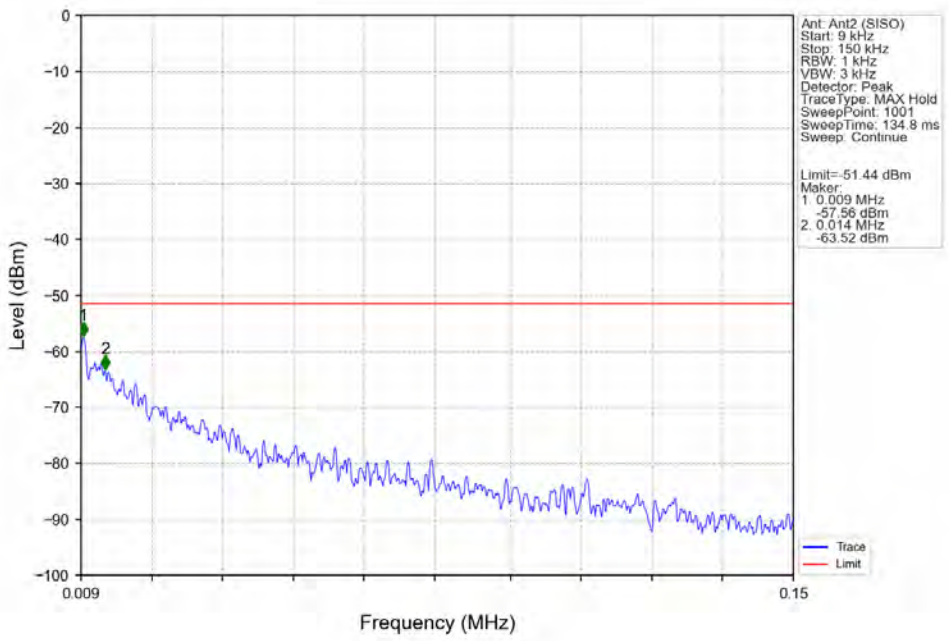

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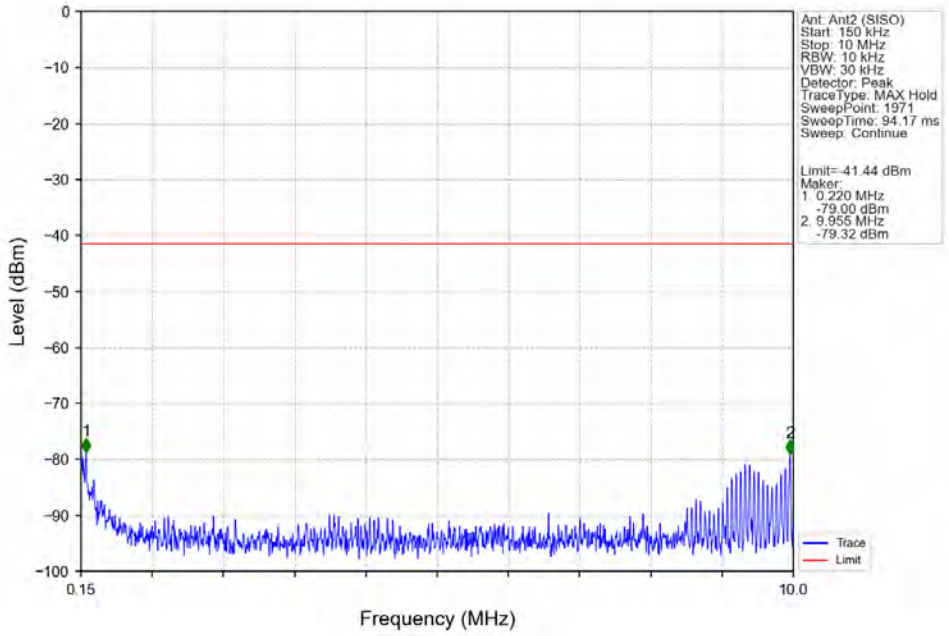

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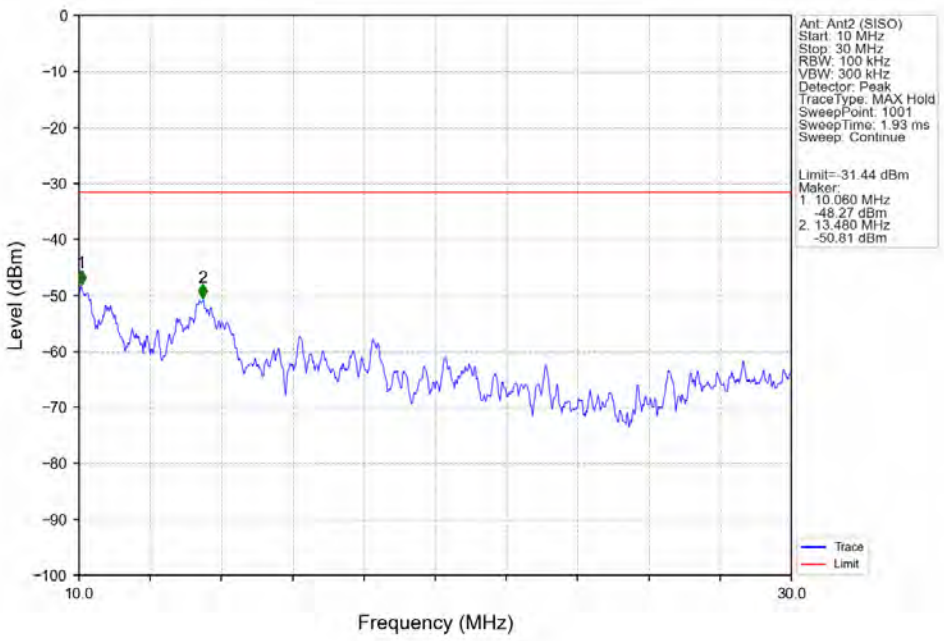

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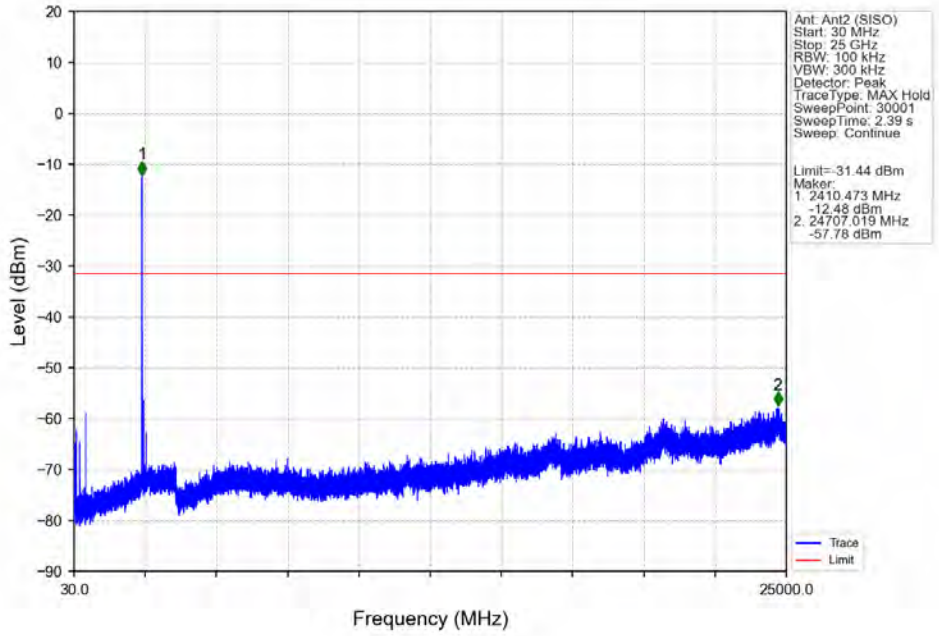
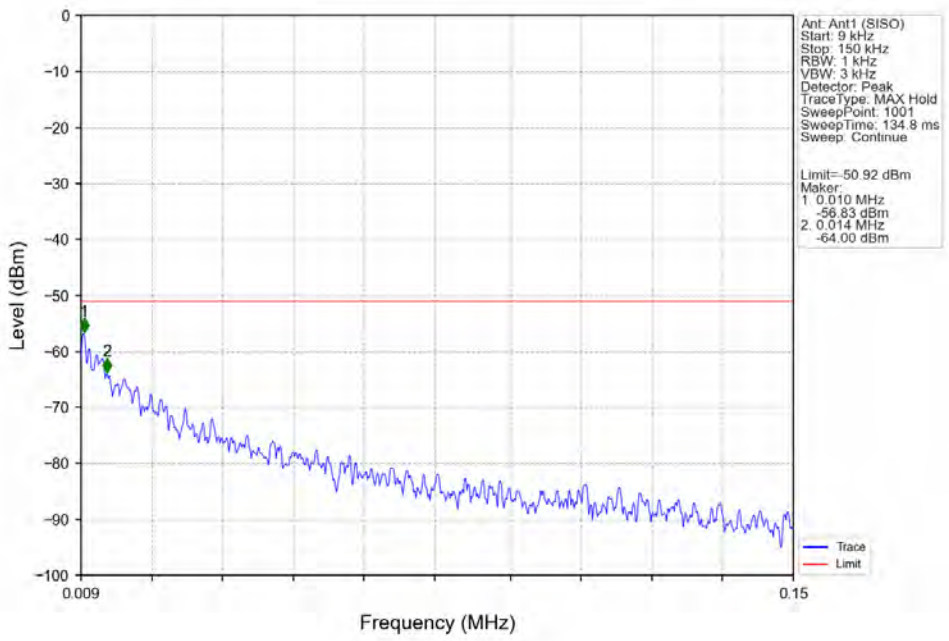


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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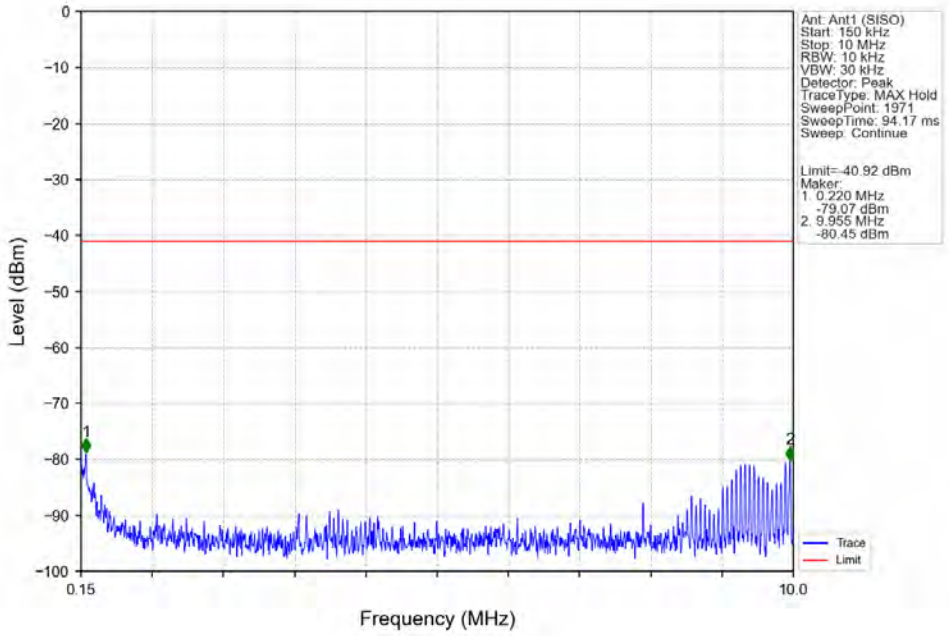

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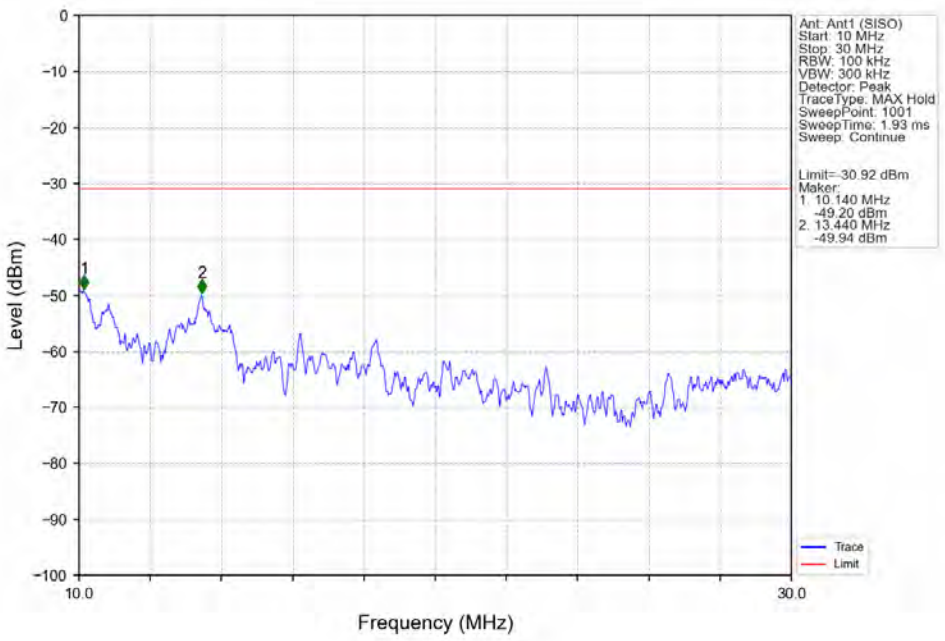

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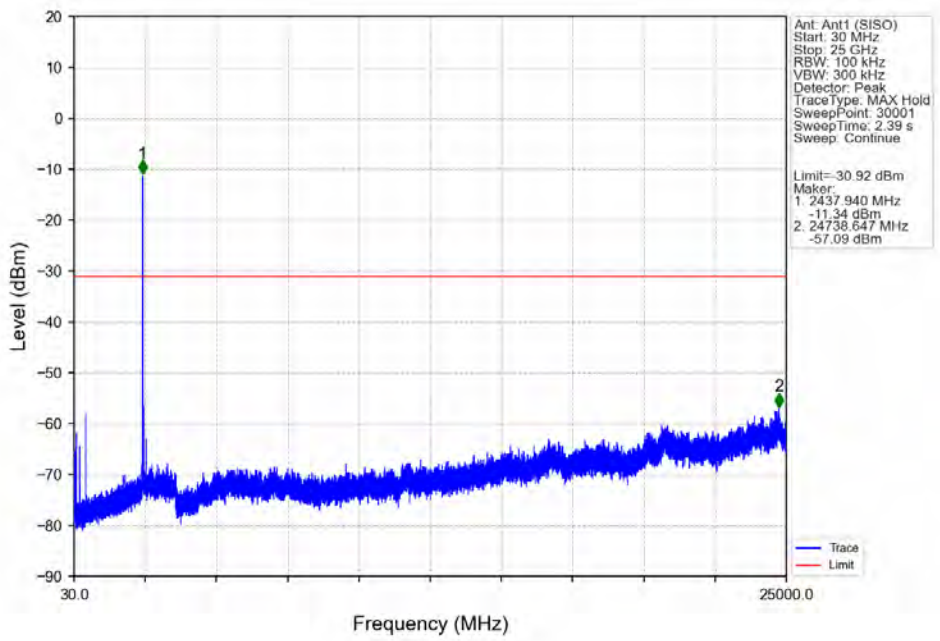

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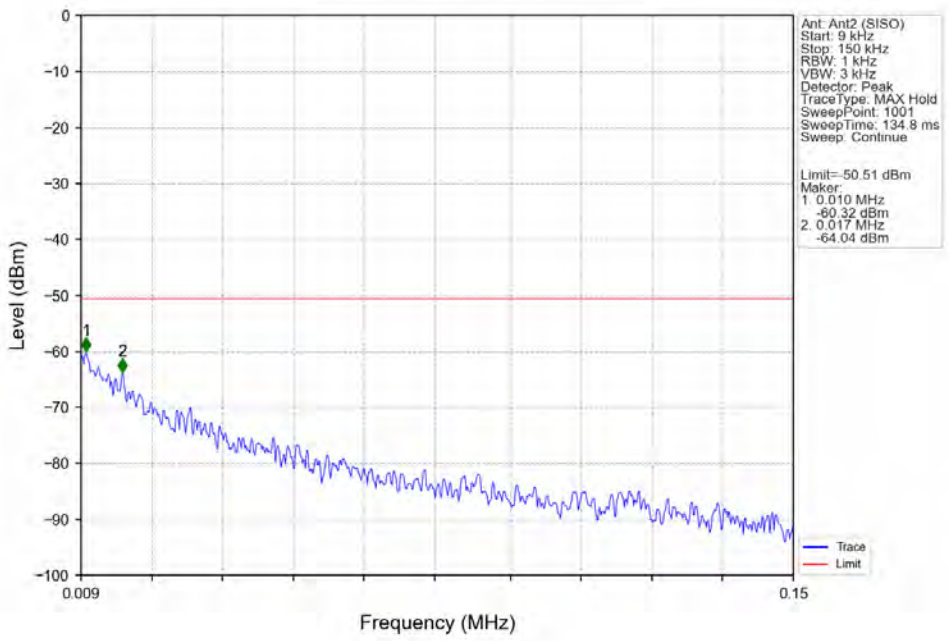

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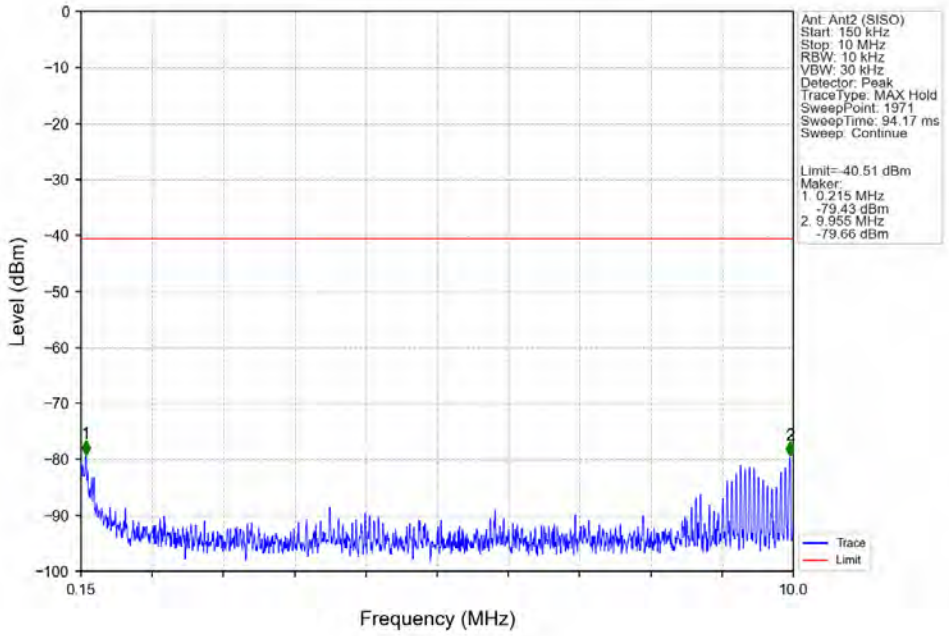

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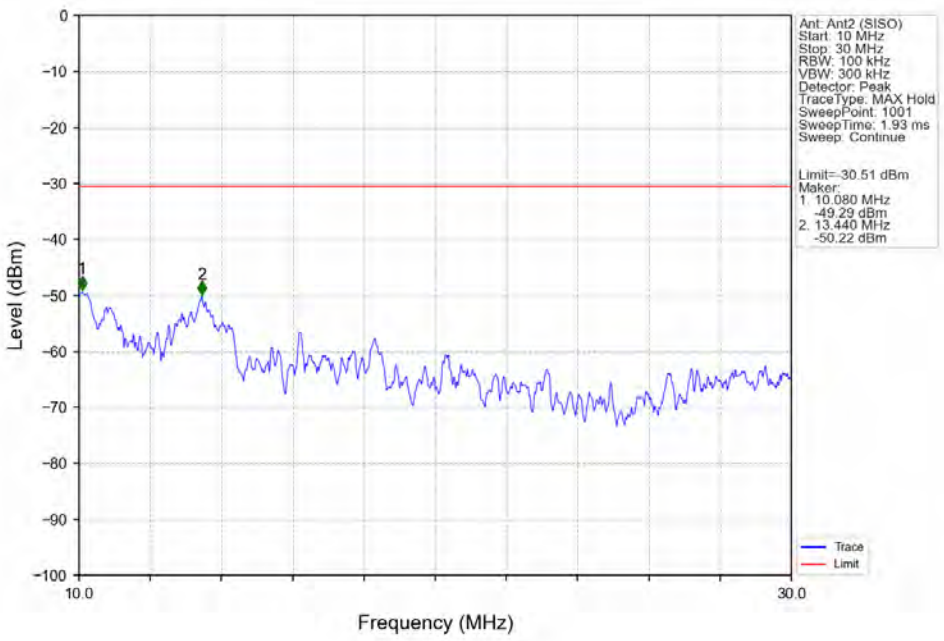

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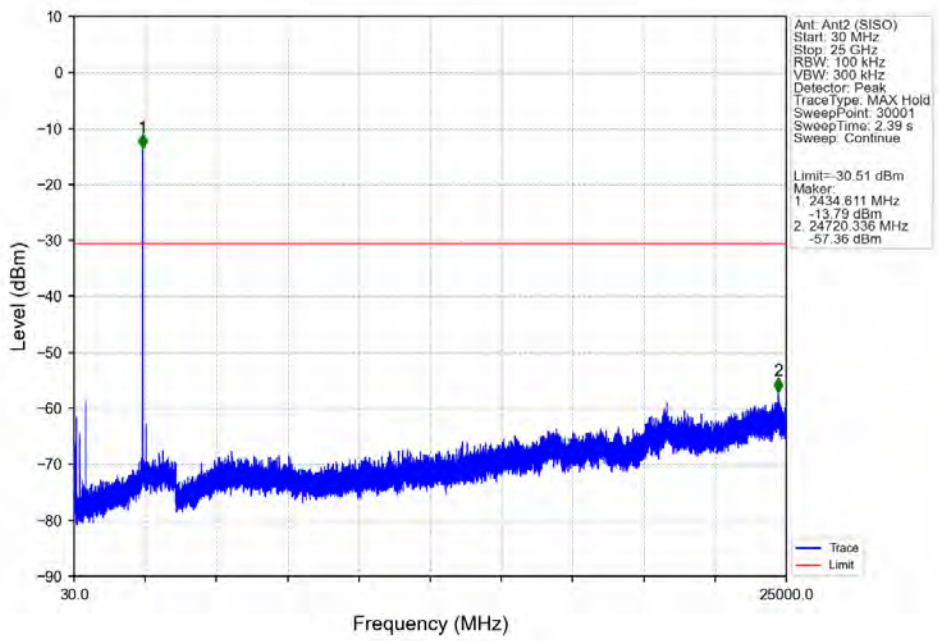

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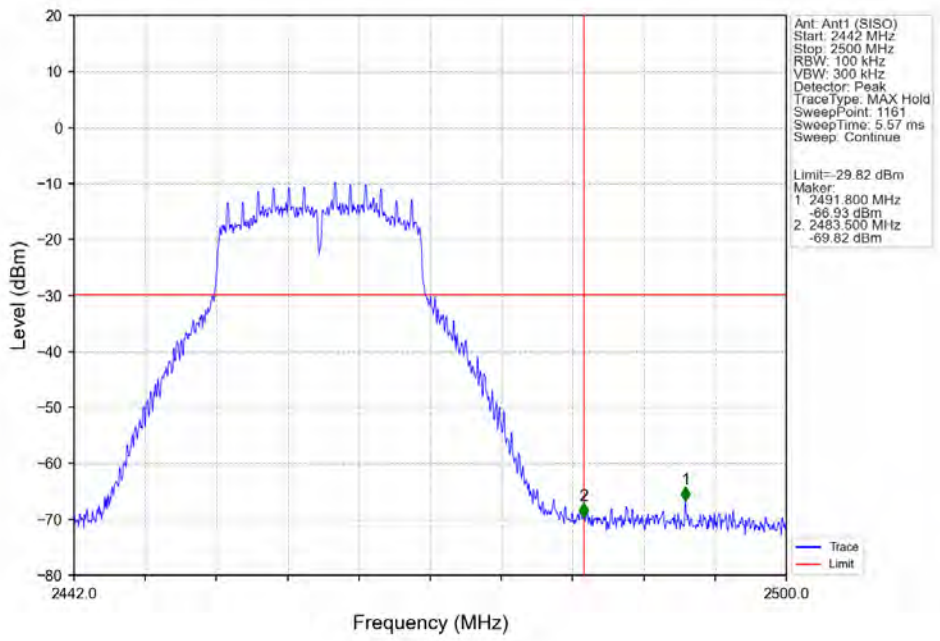

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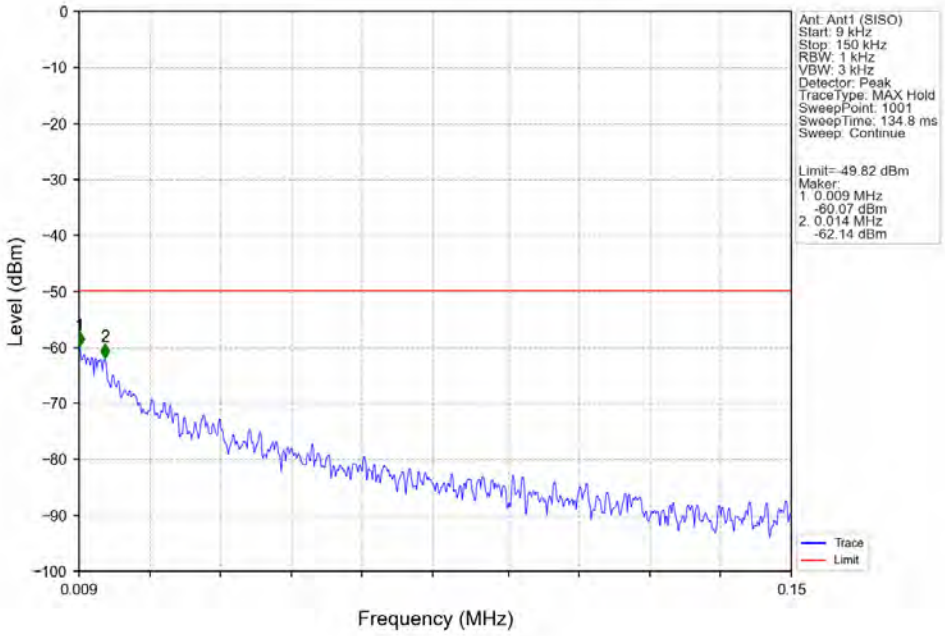

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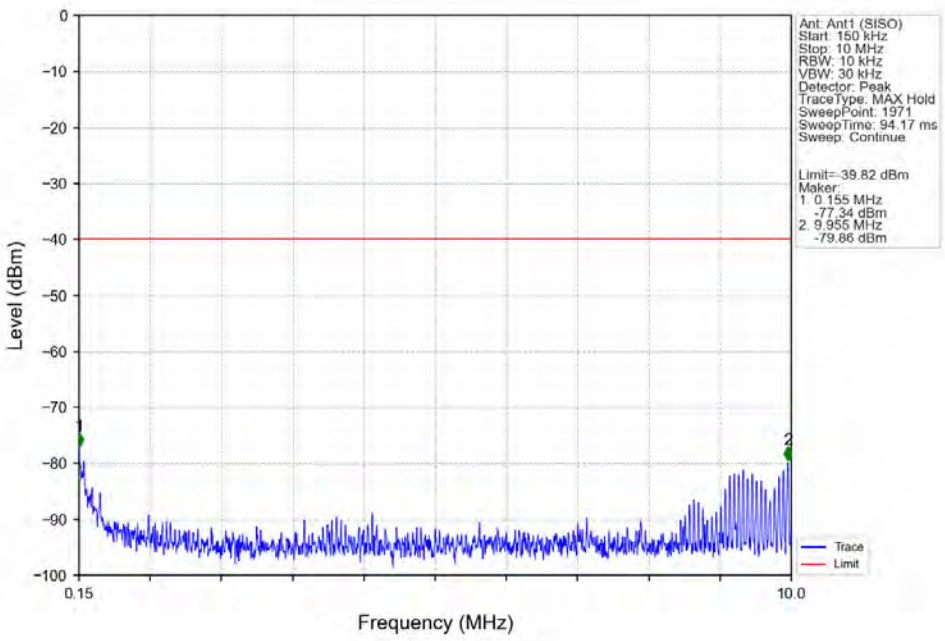

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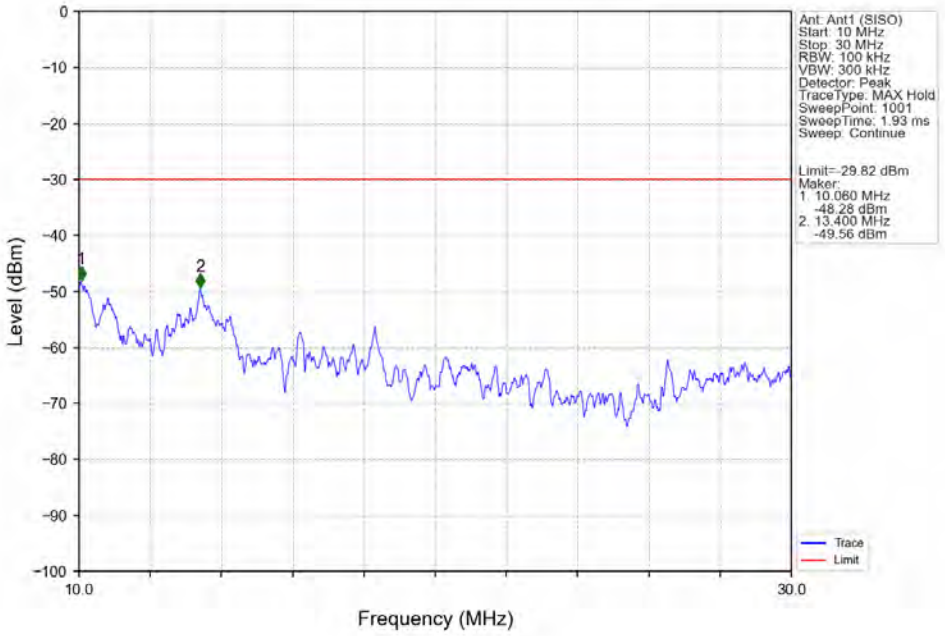

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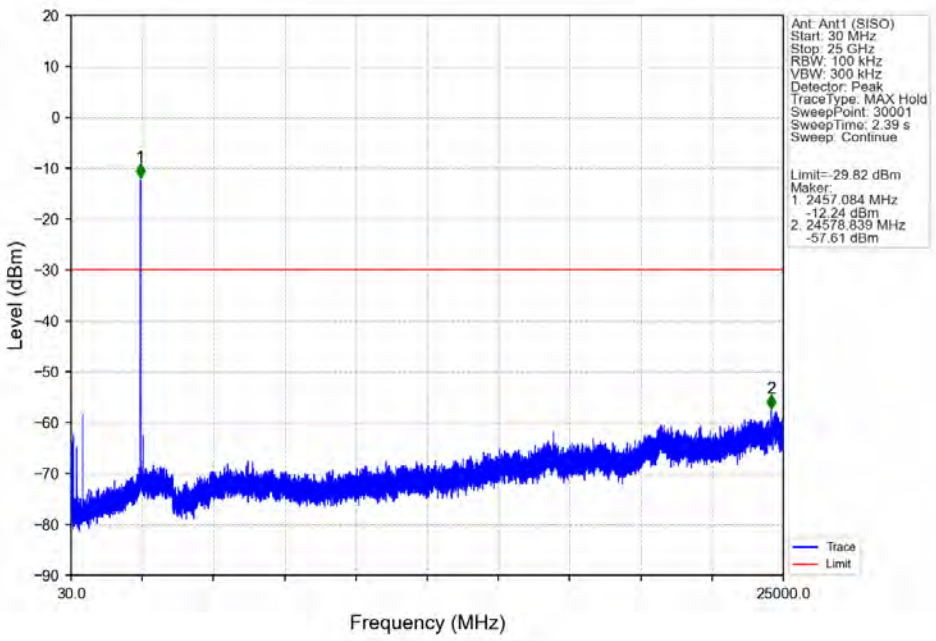

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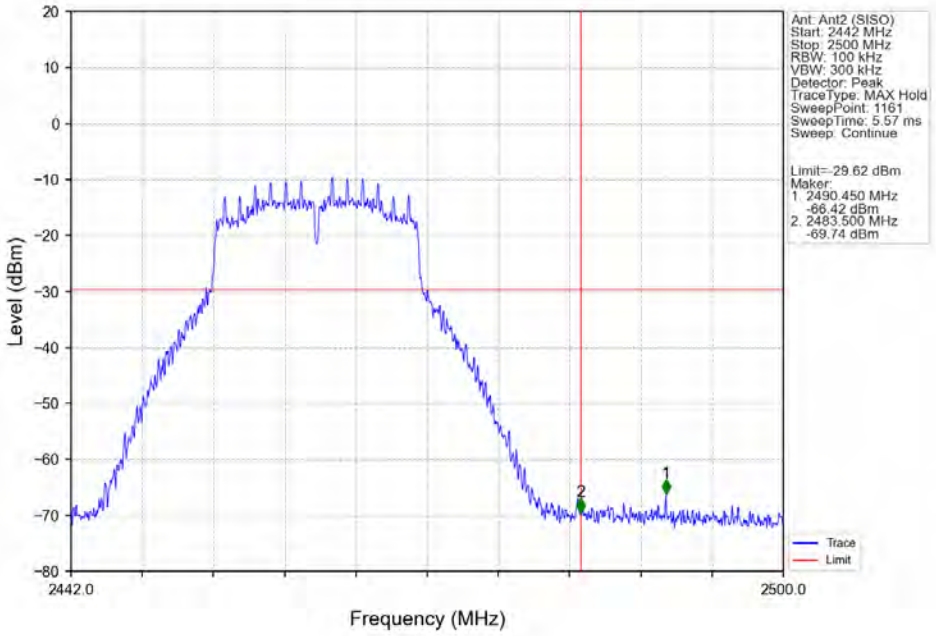

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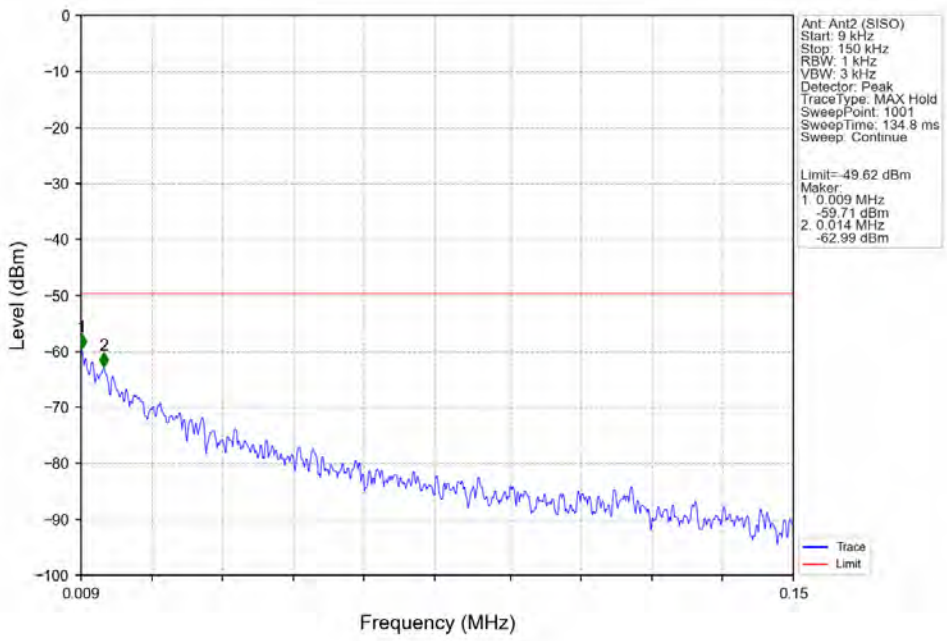

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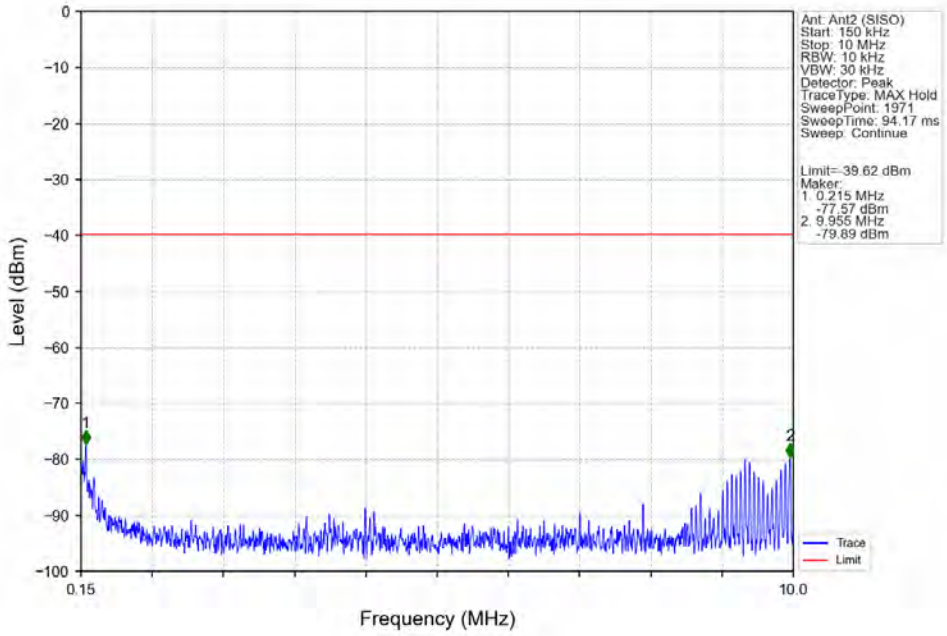

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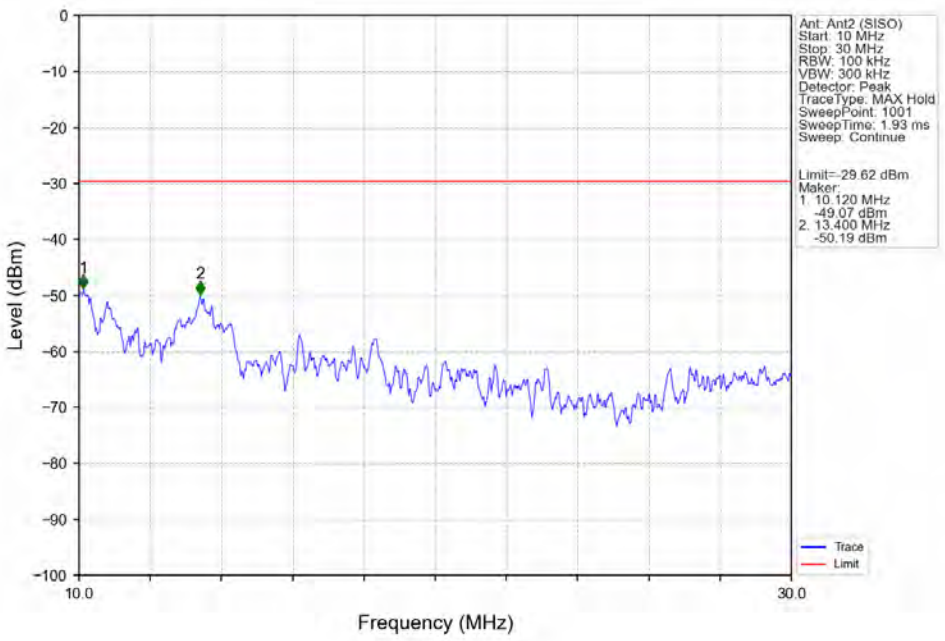

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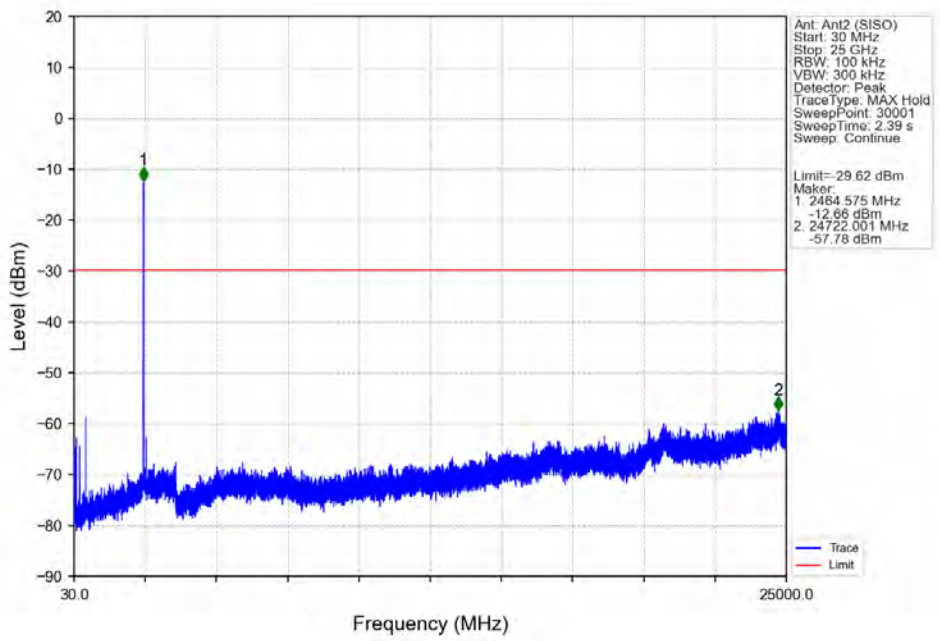
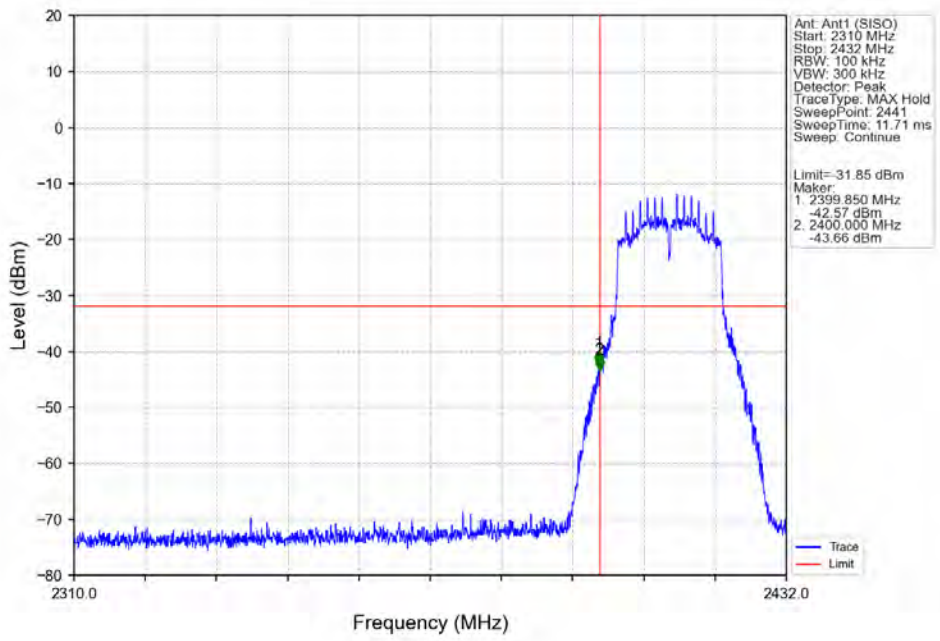


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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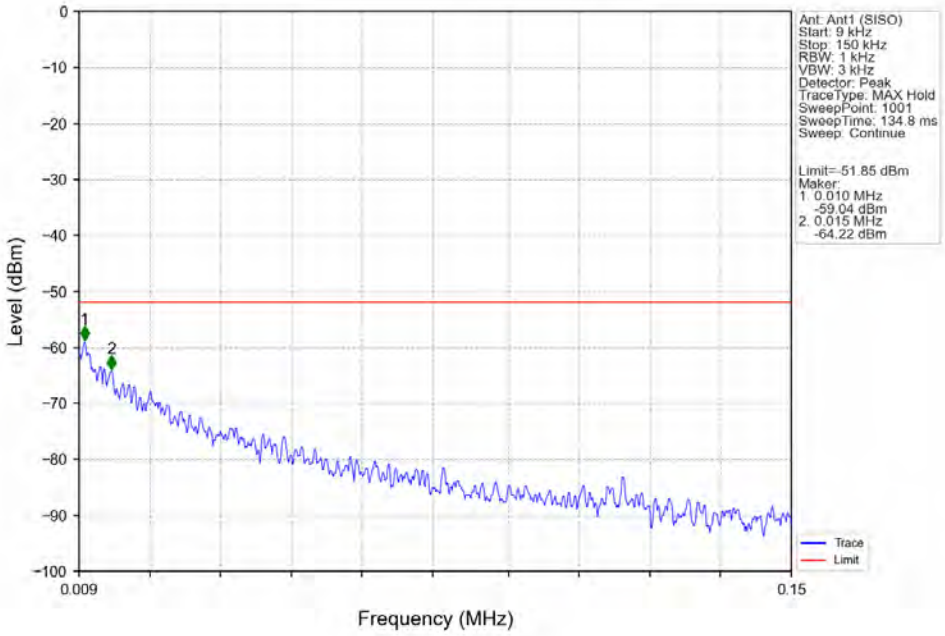

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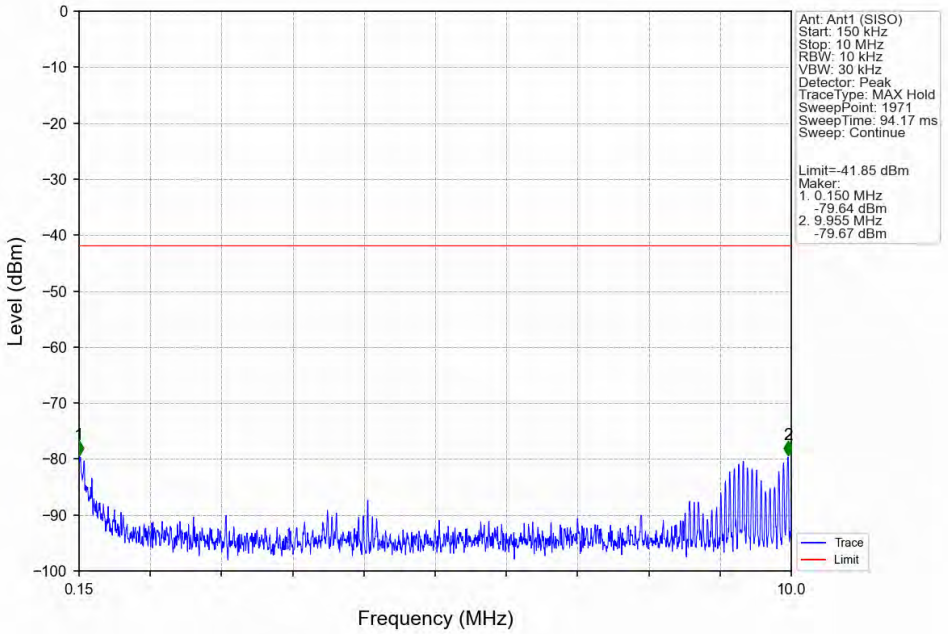

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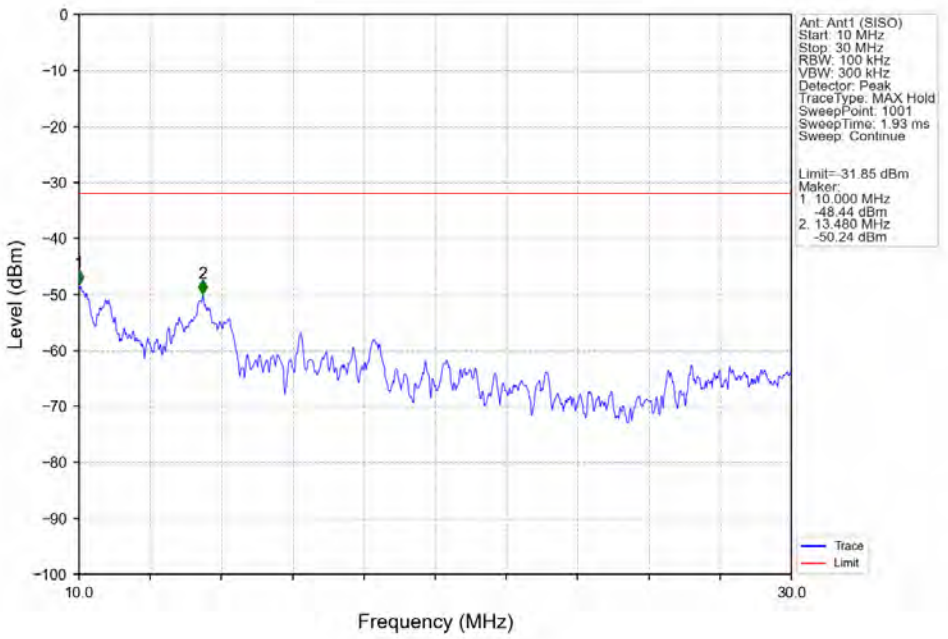

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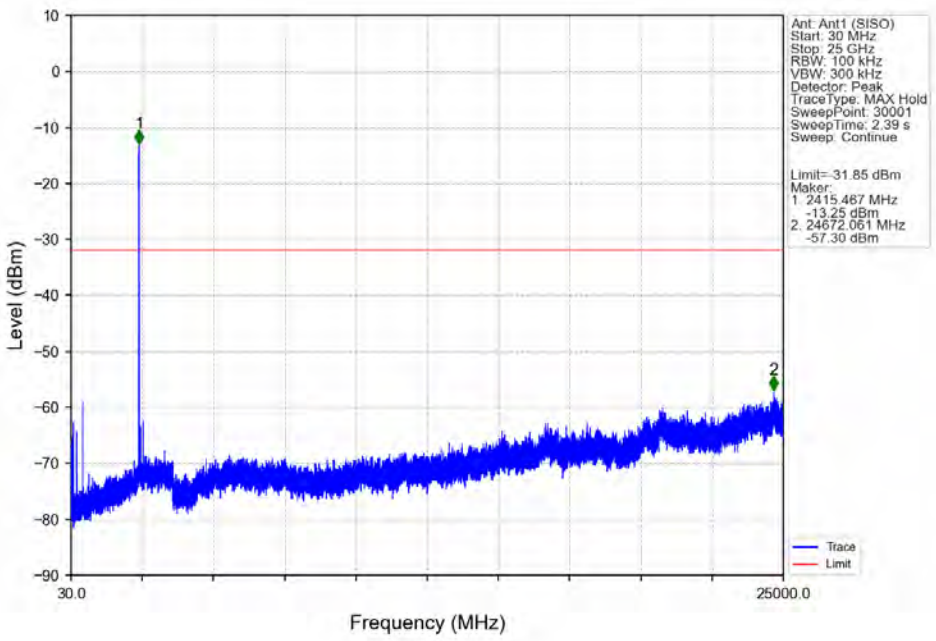

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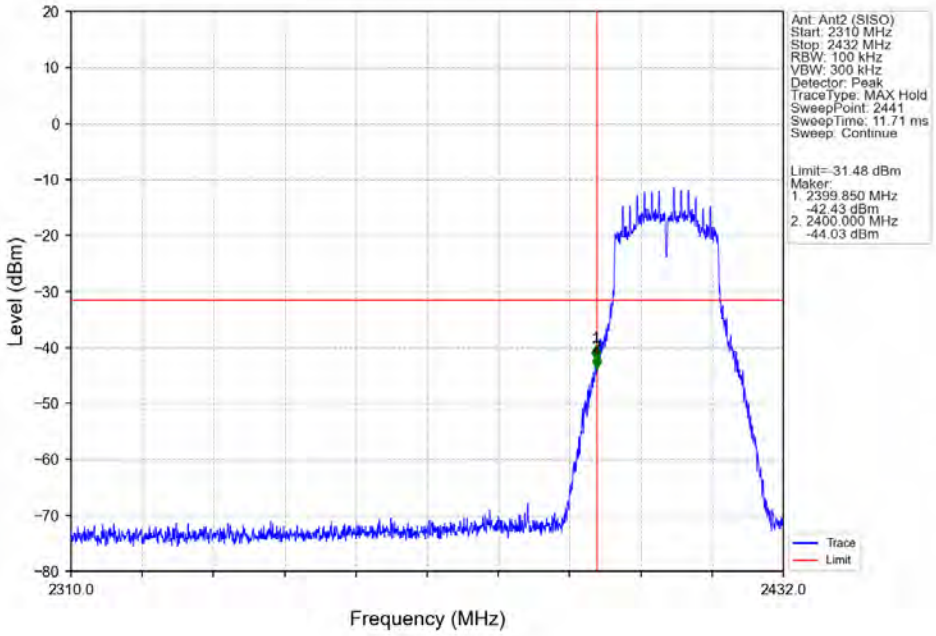

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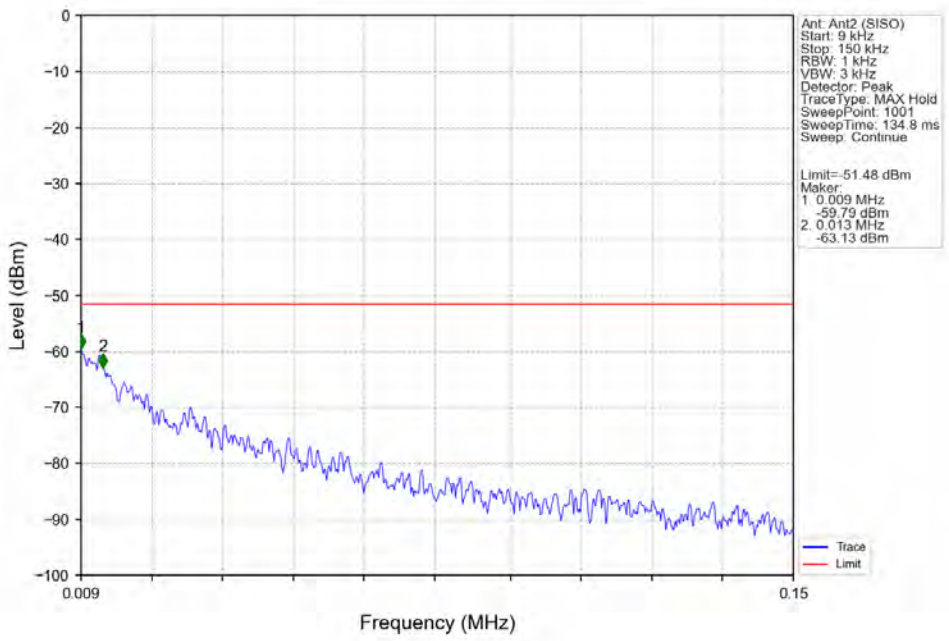

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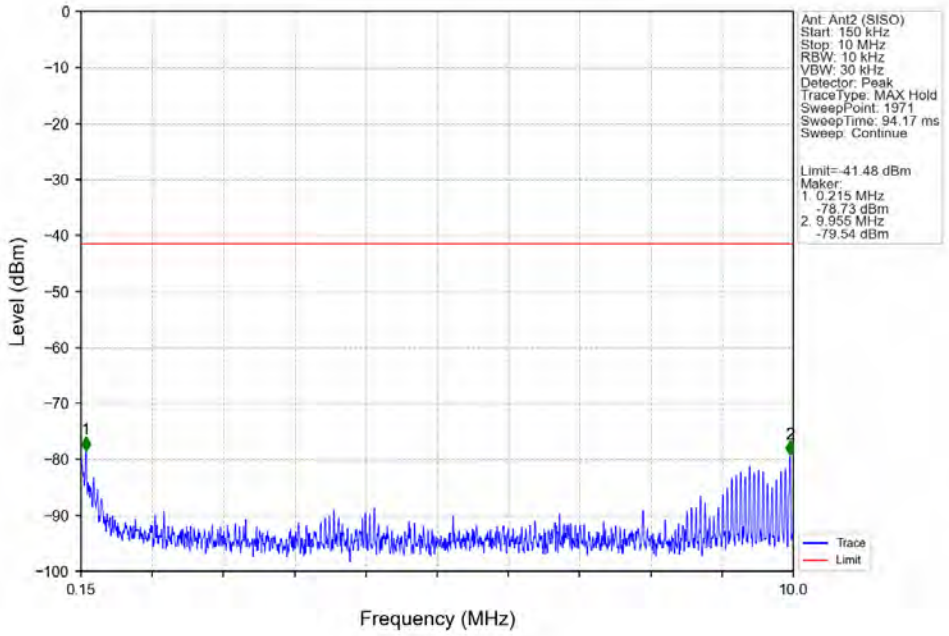

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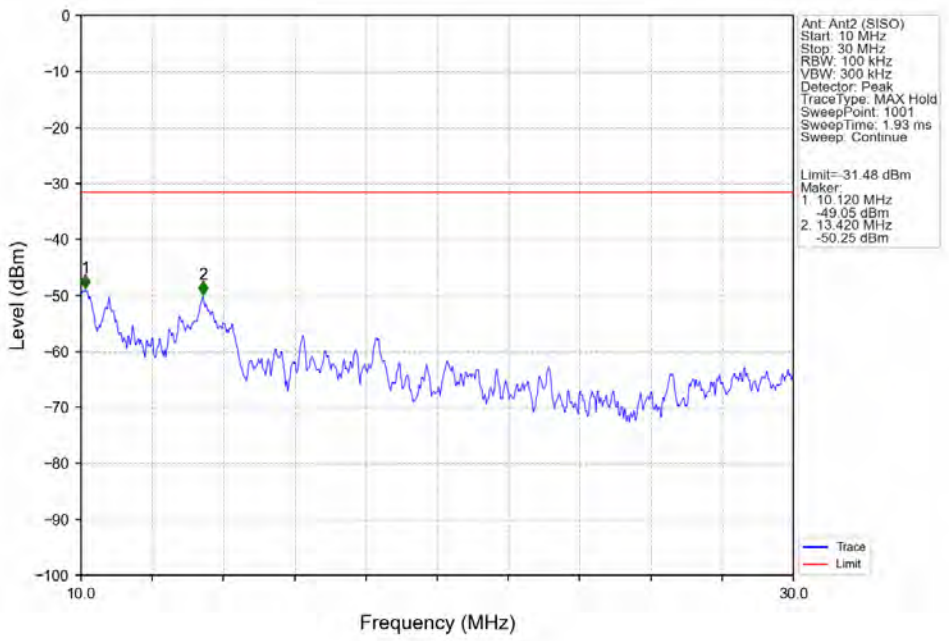

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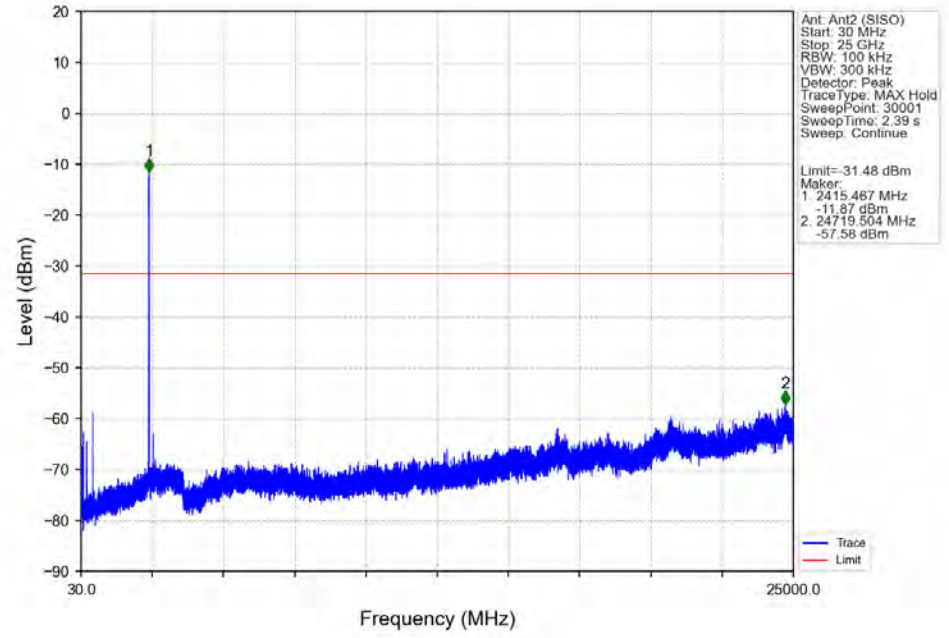

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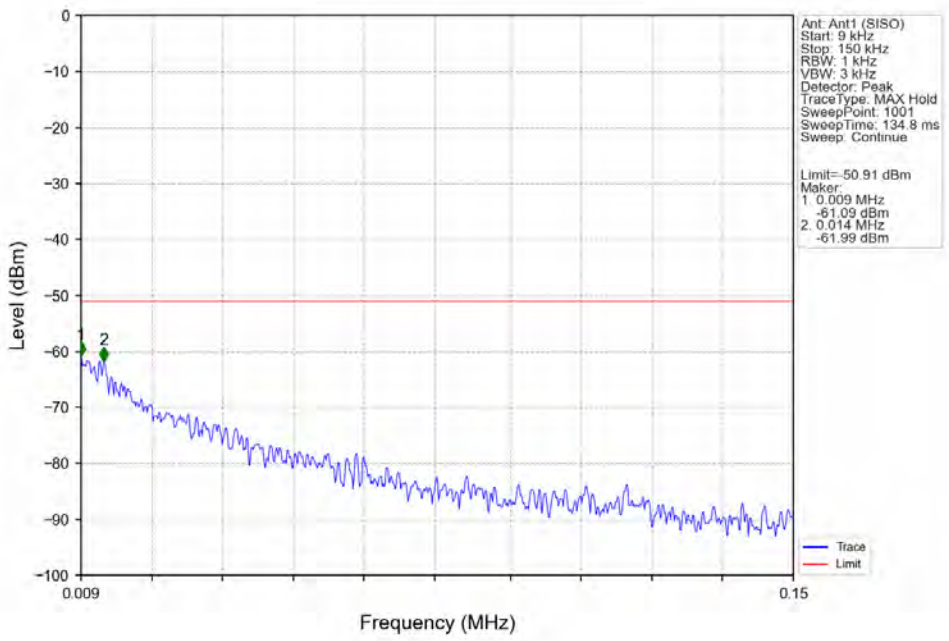

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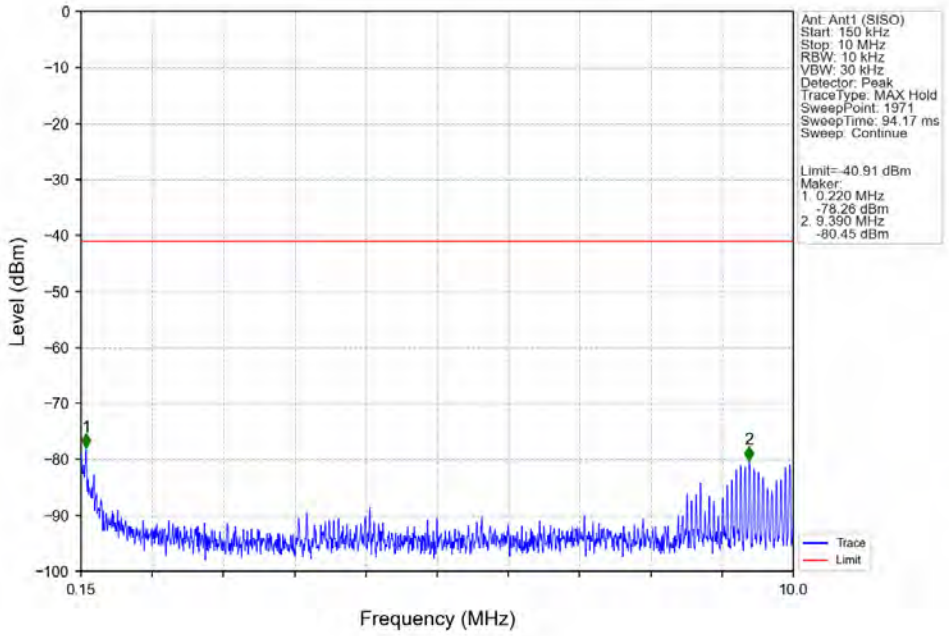

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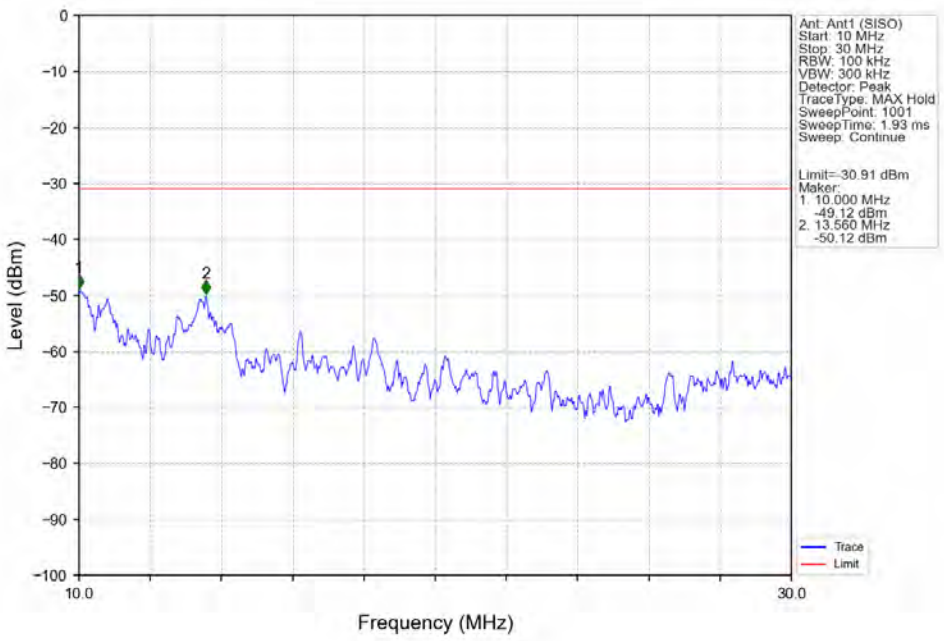

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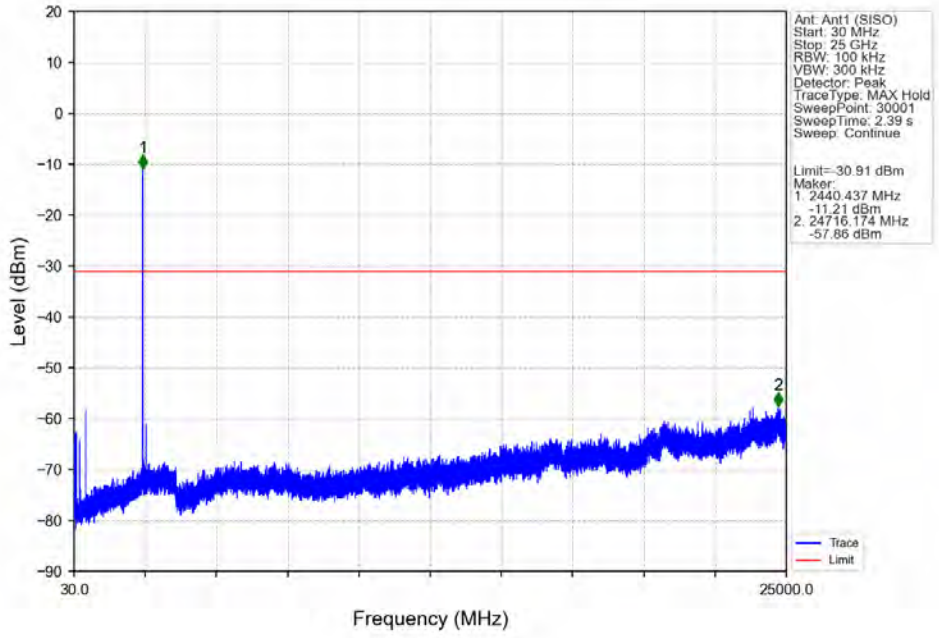

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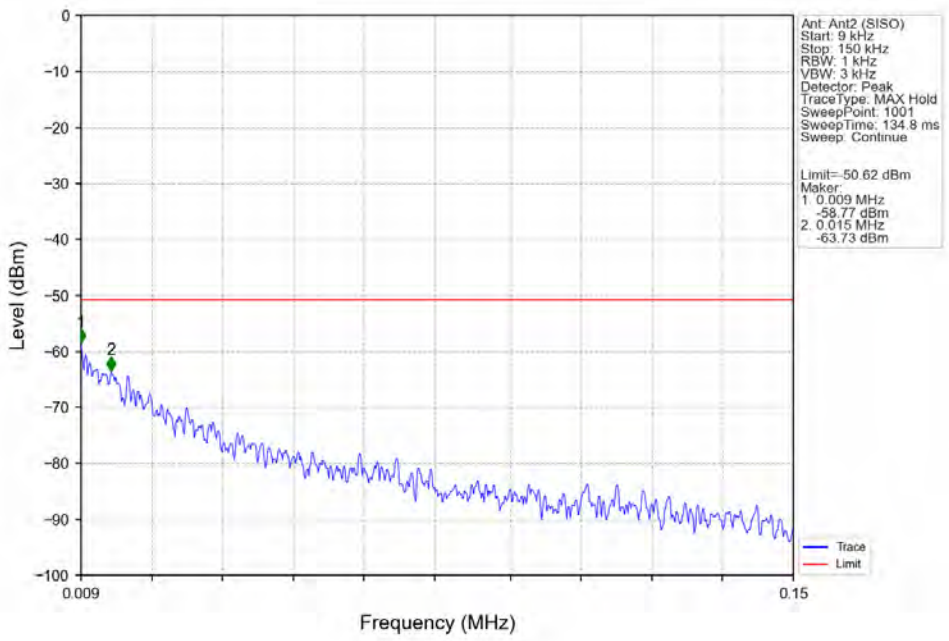

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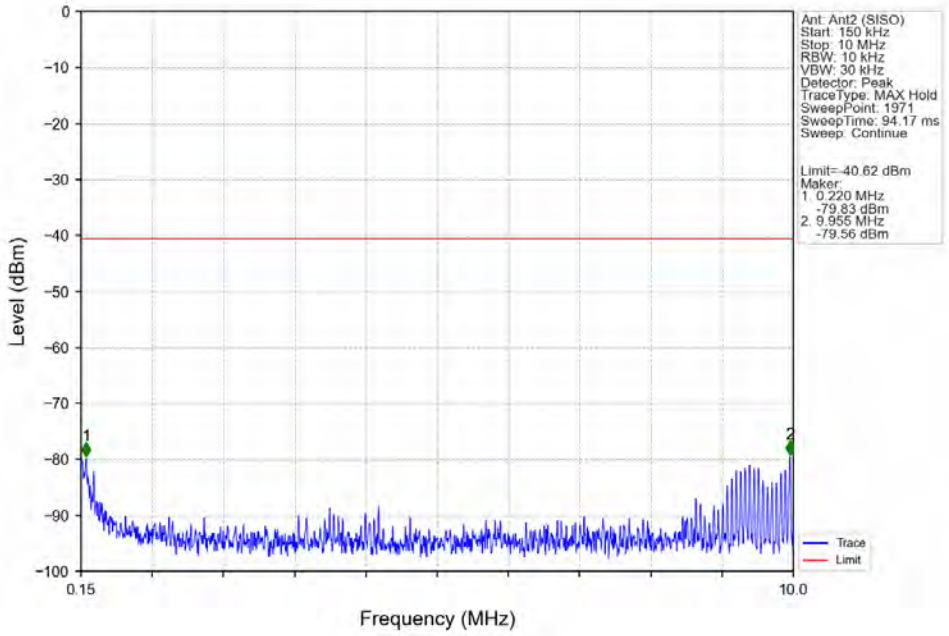

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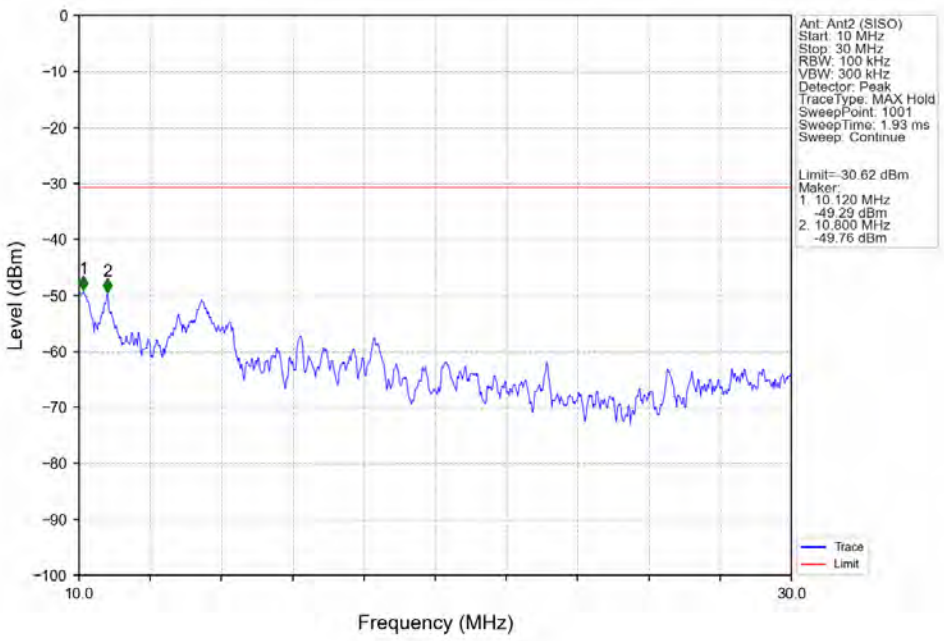

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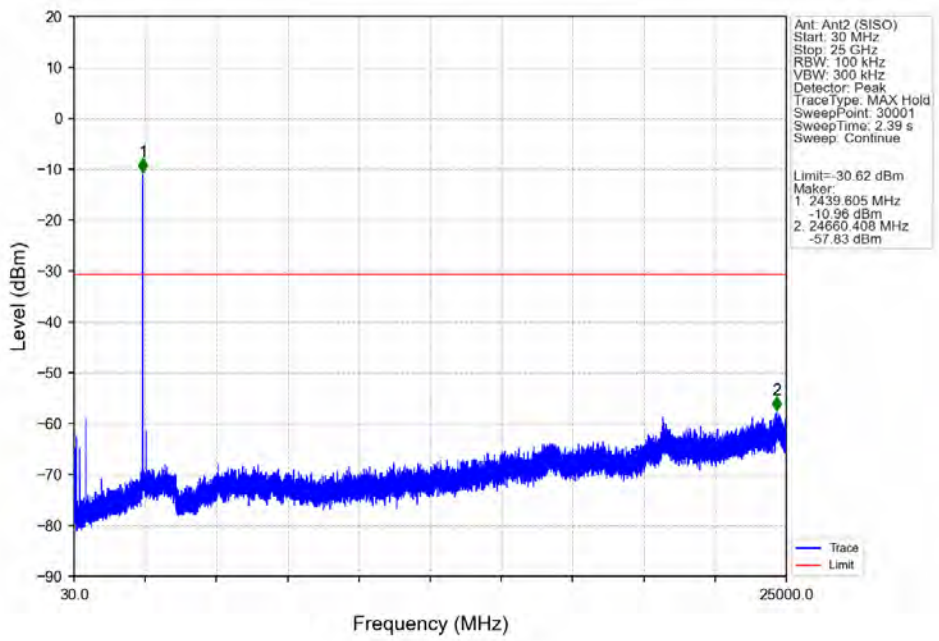

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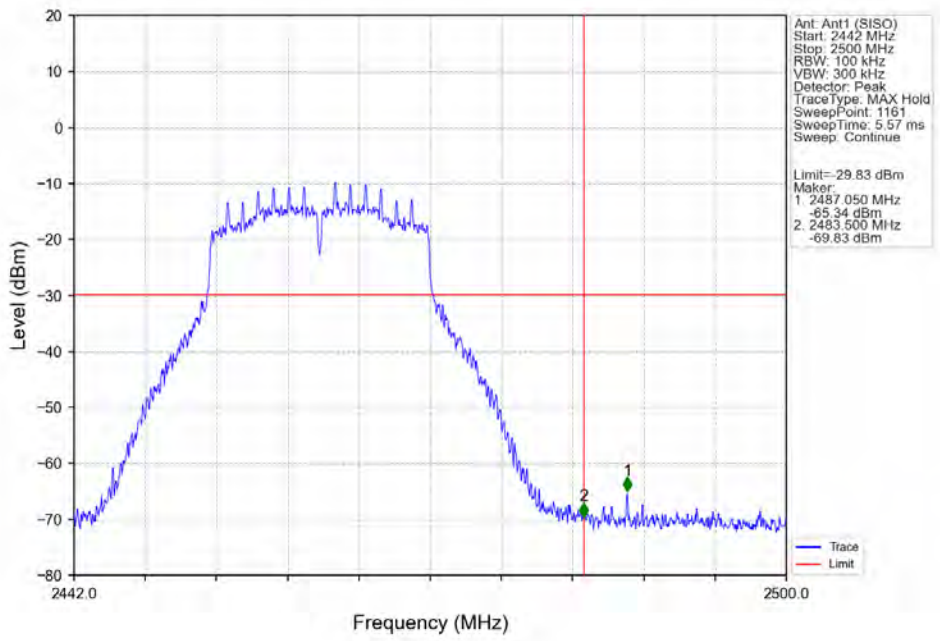

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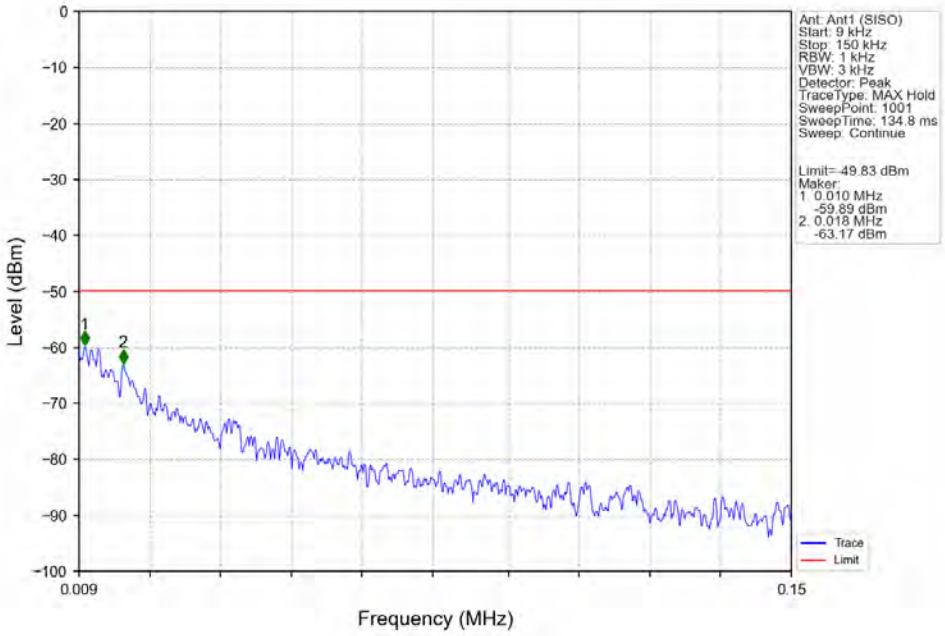

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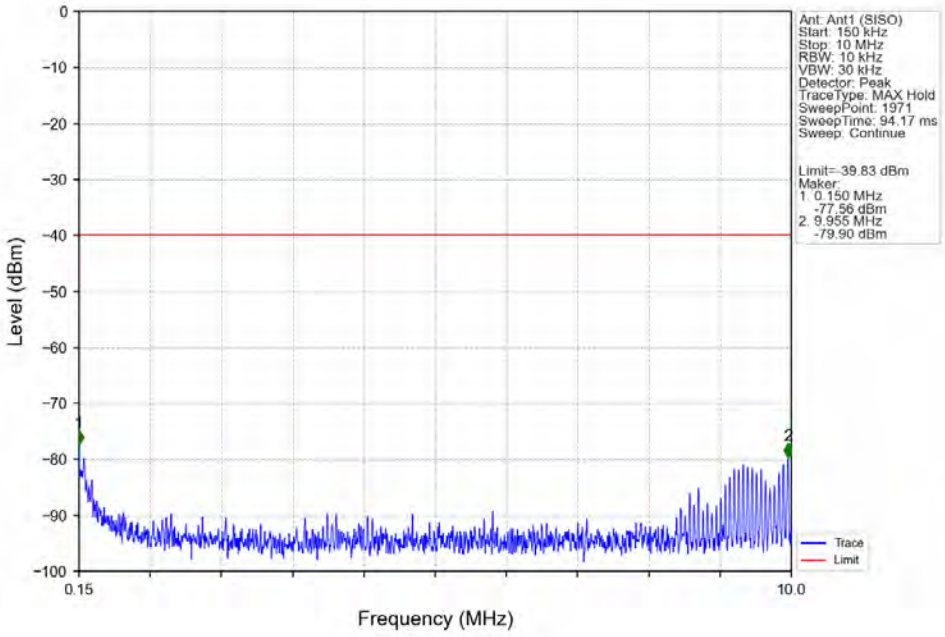

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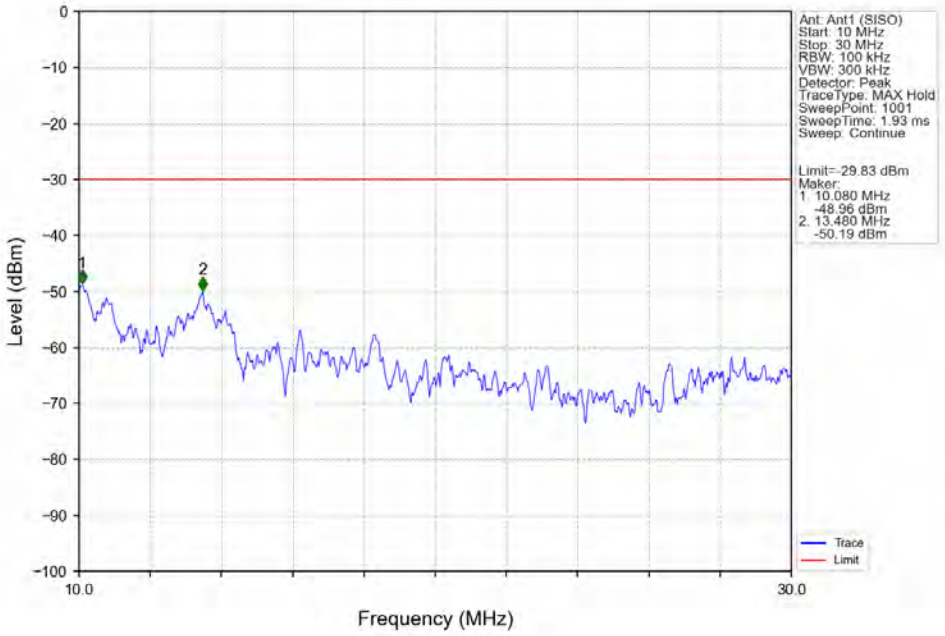

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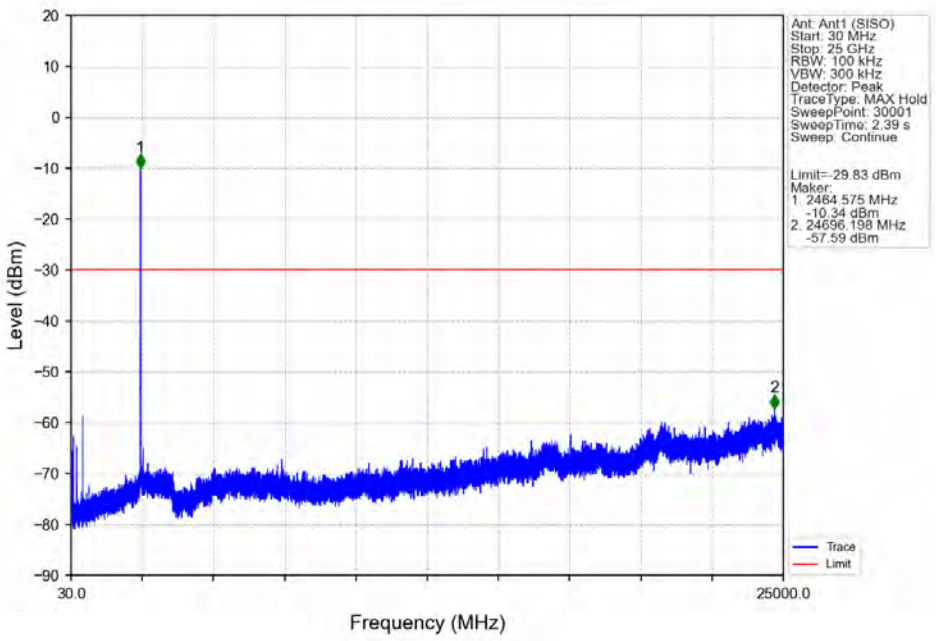

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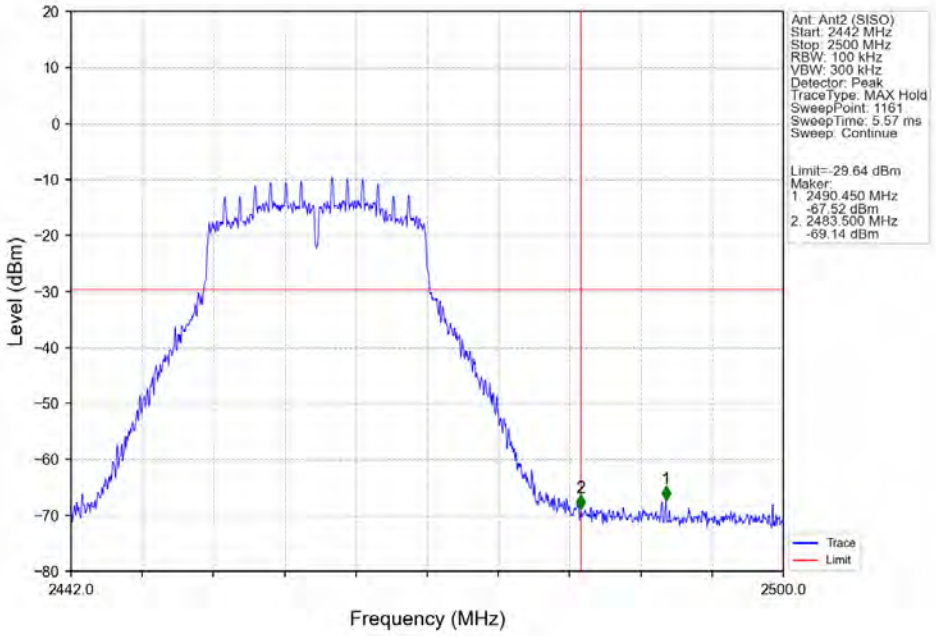

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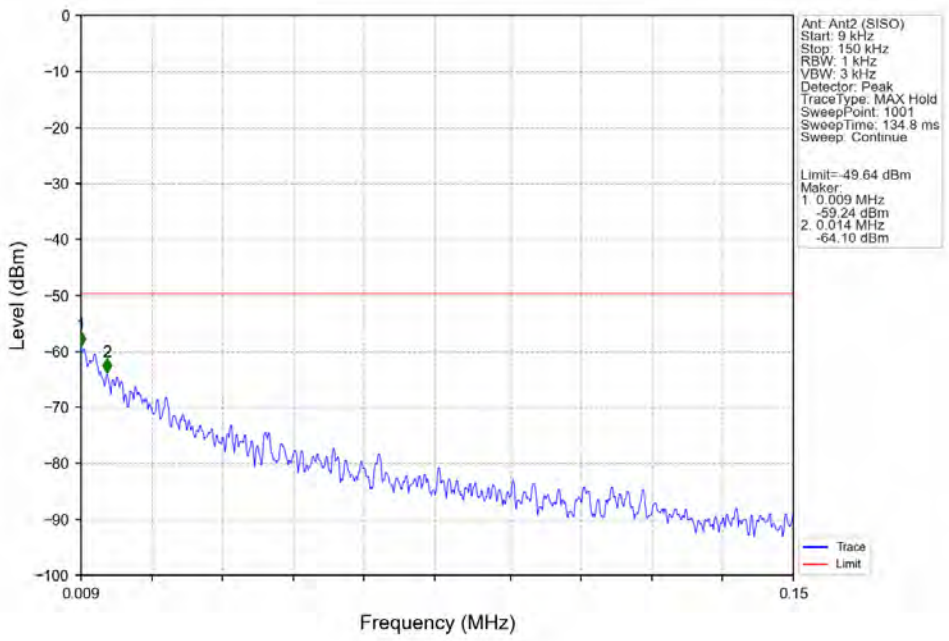

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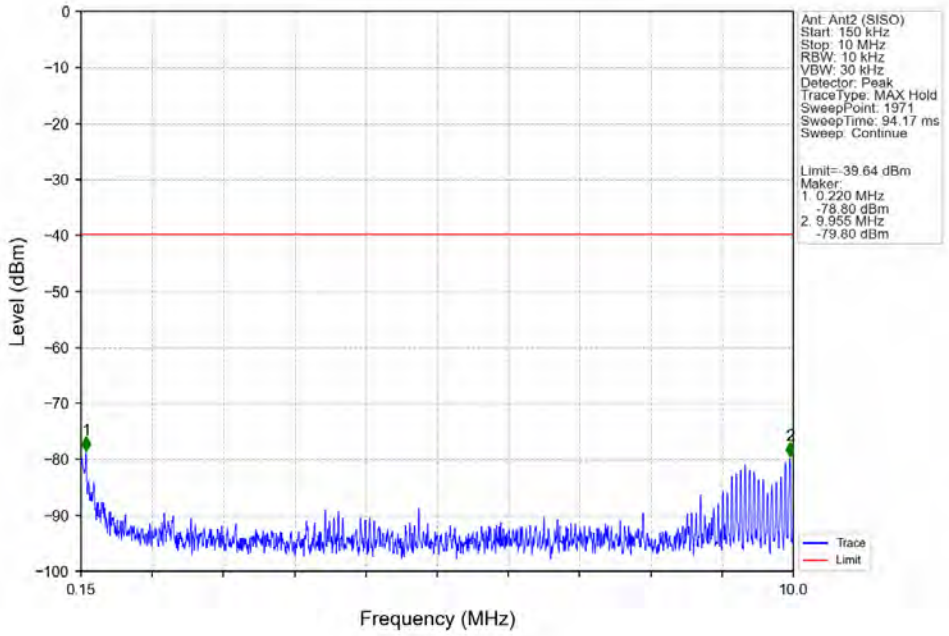

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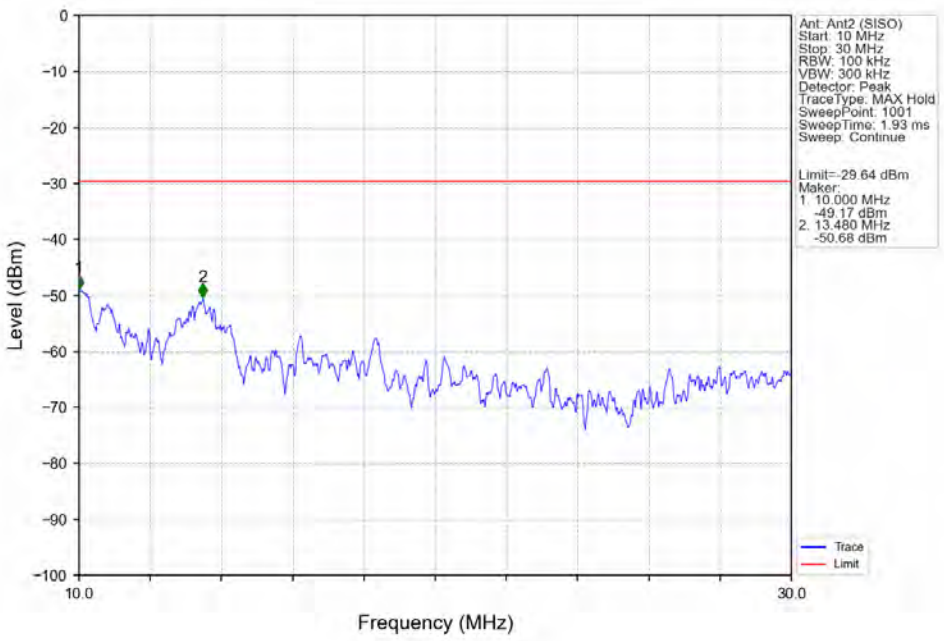

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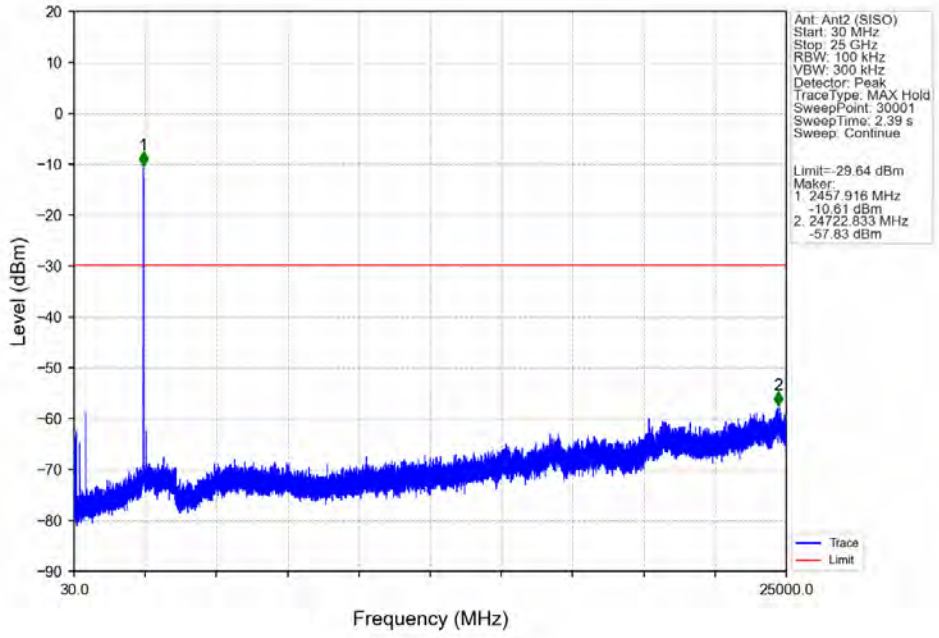

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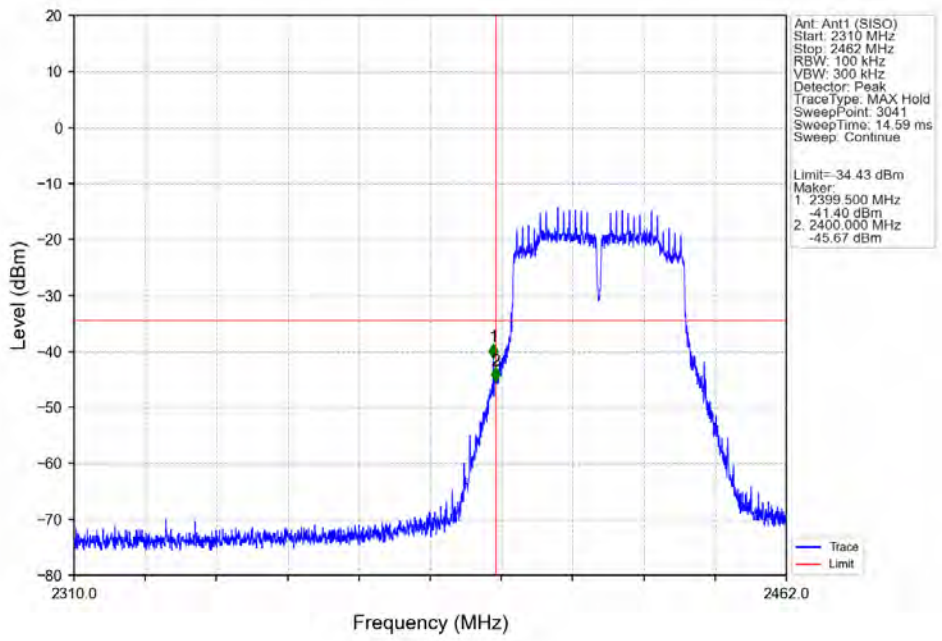

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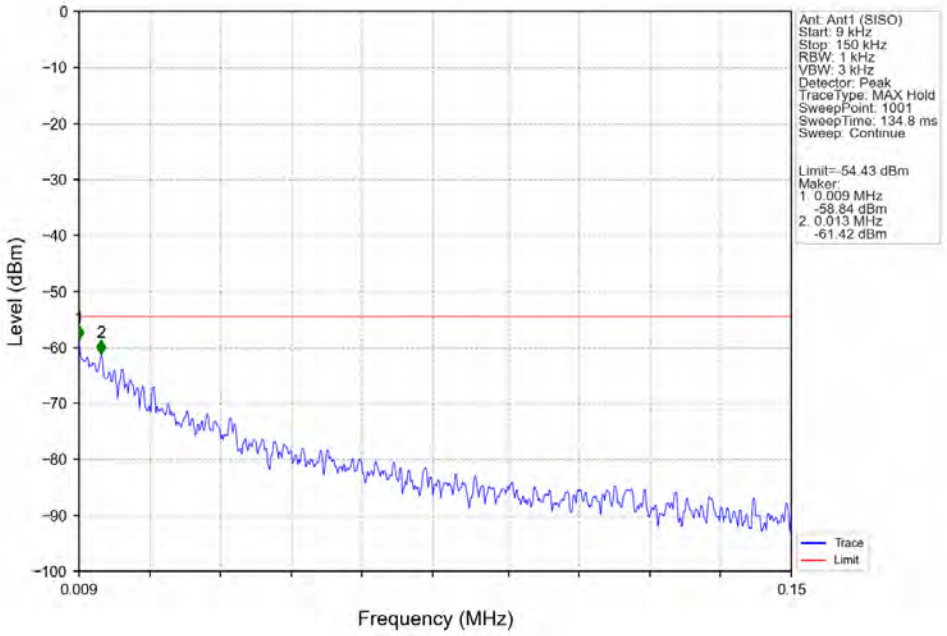

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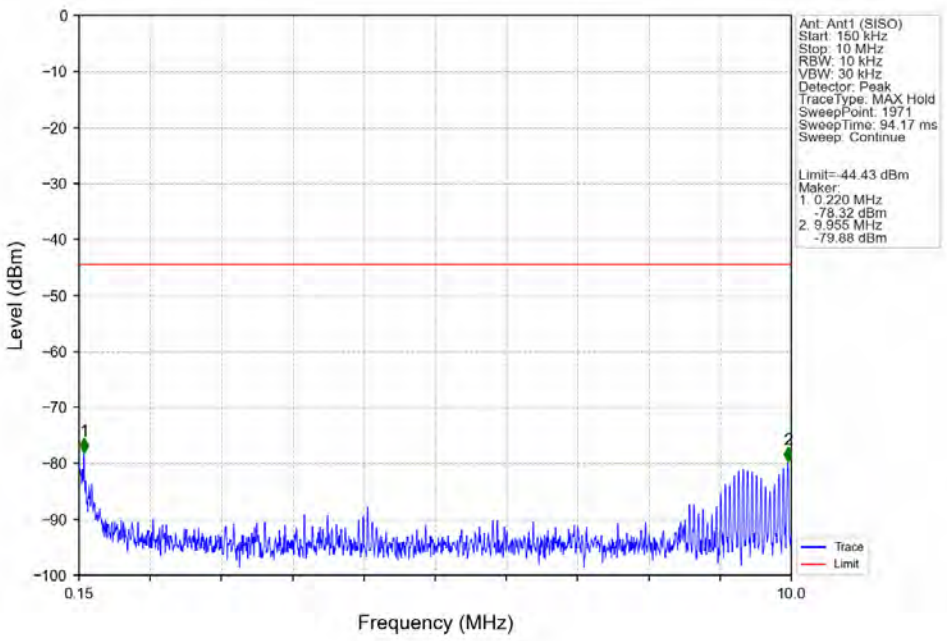

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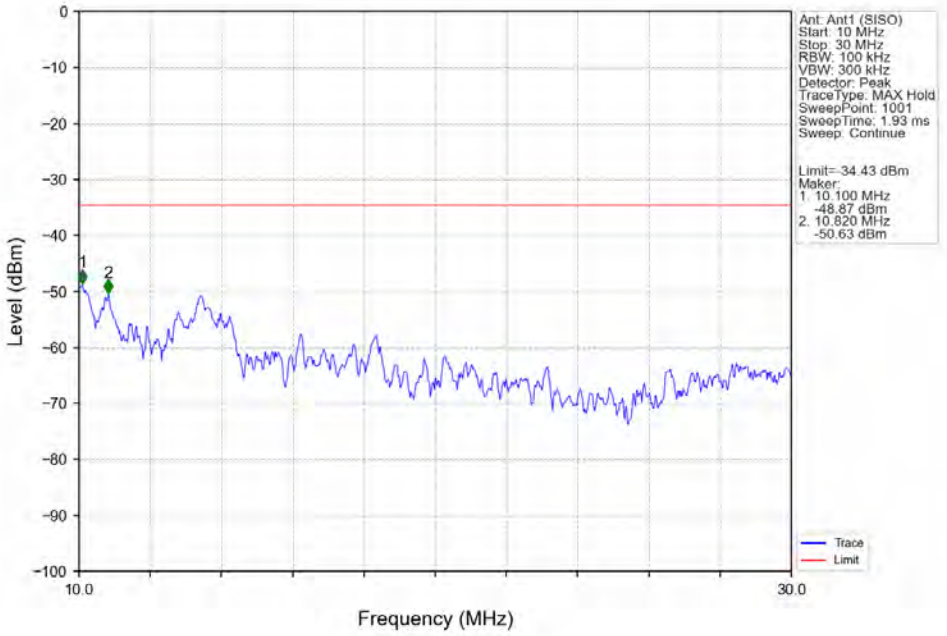

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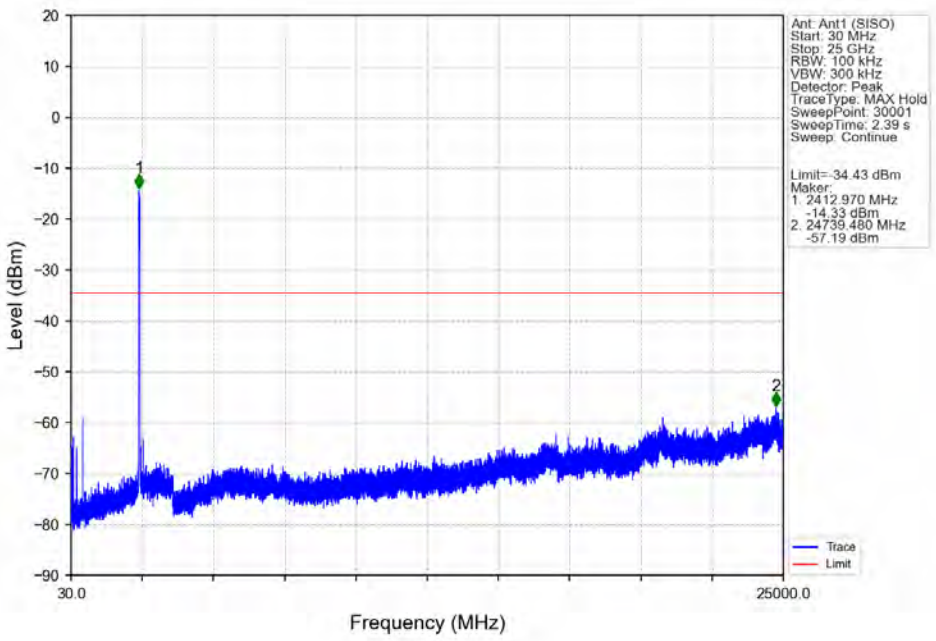

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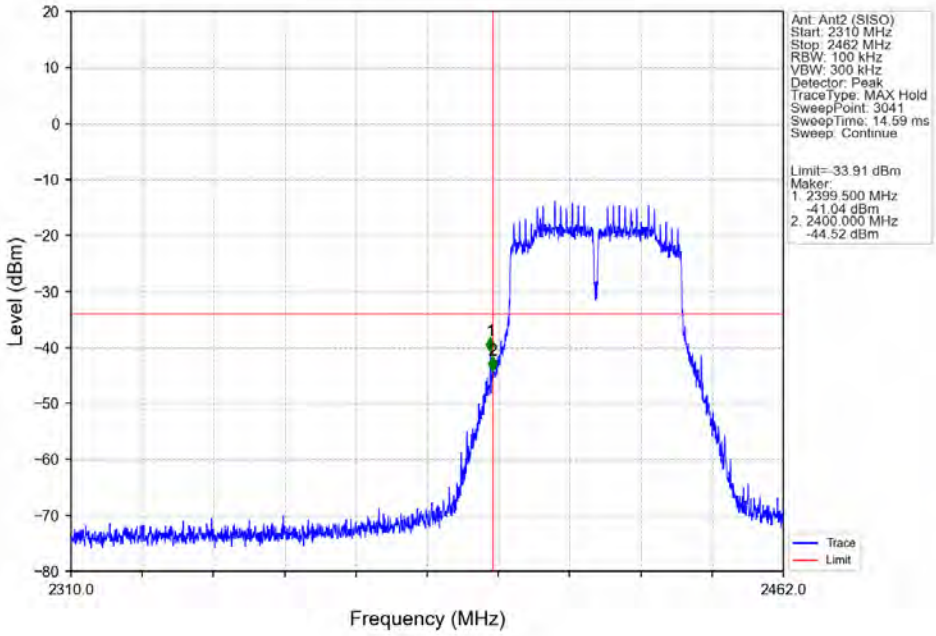
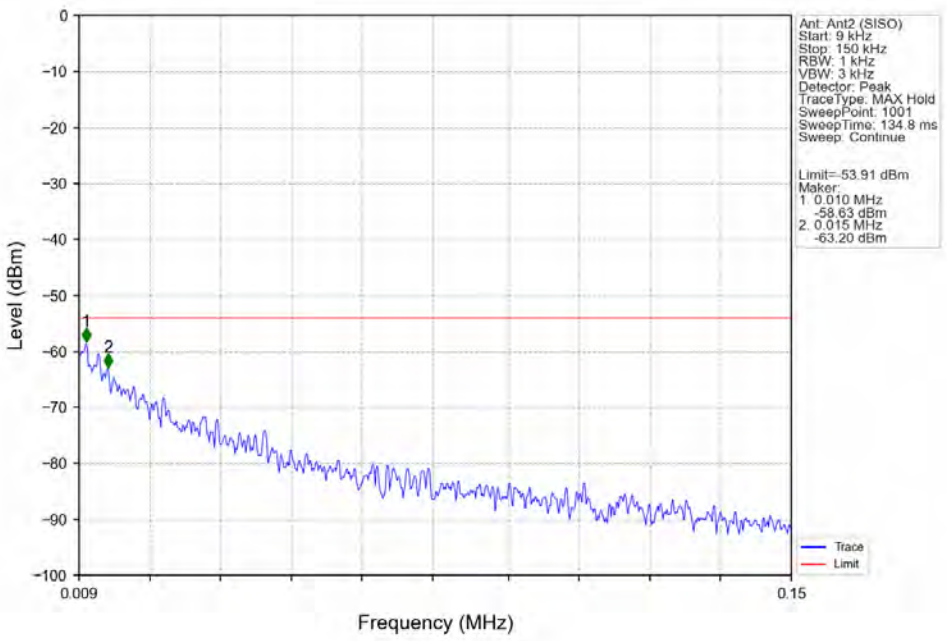


802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



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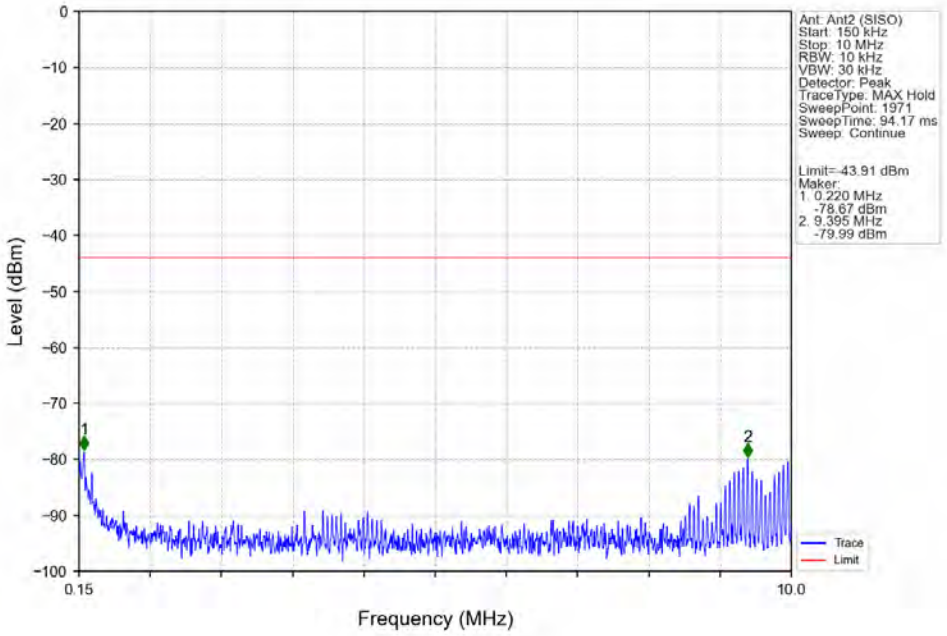
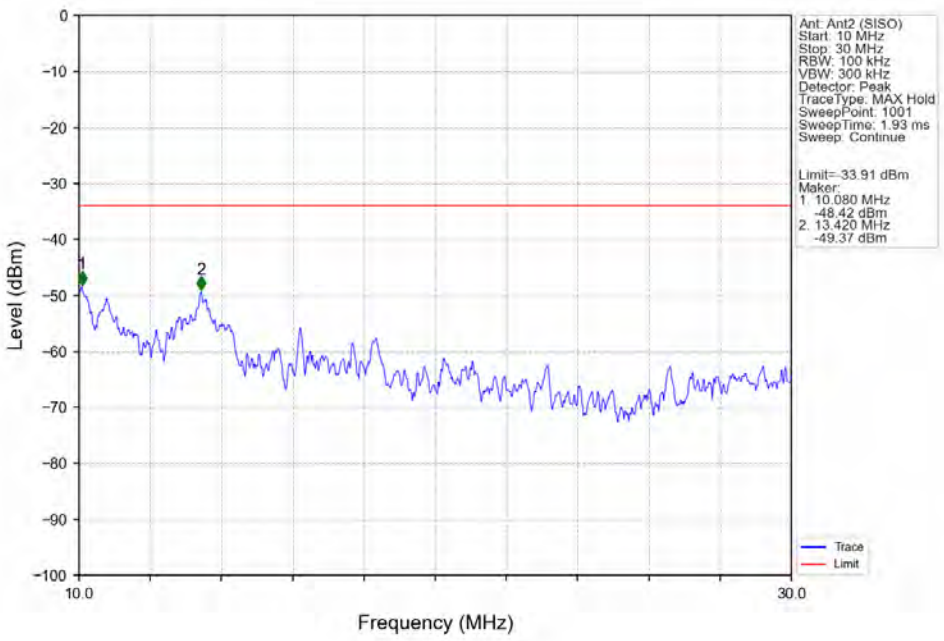
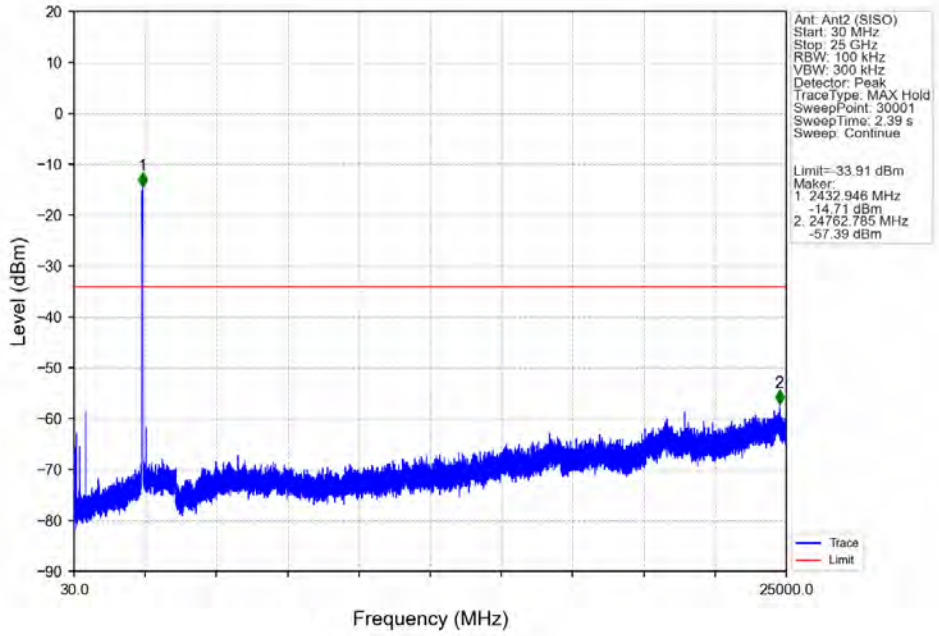


802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



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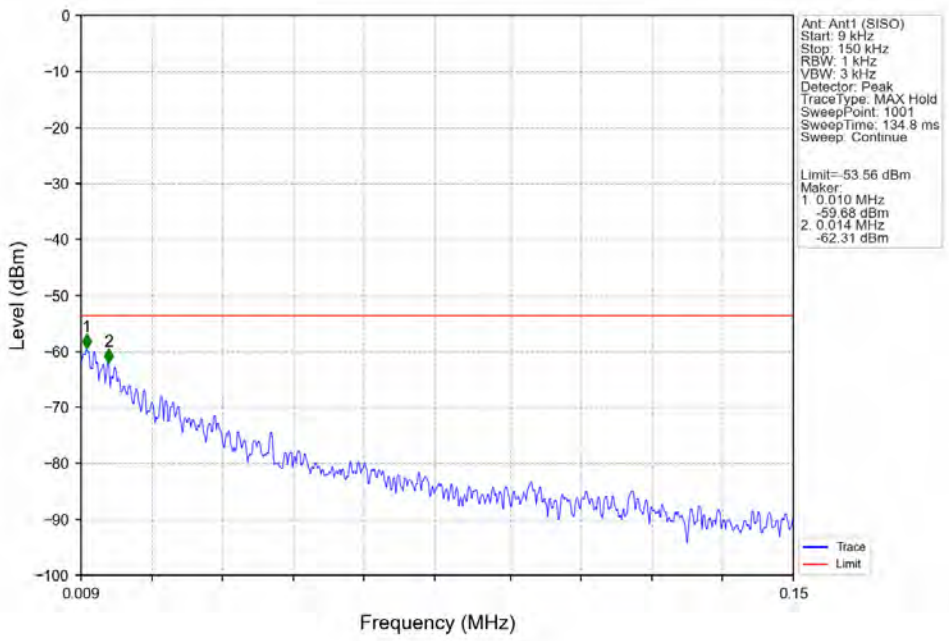

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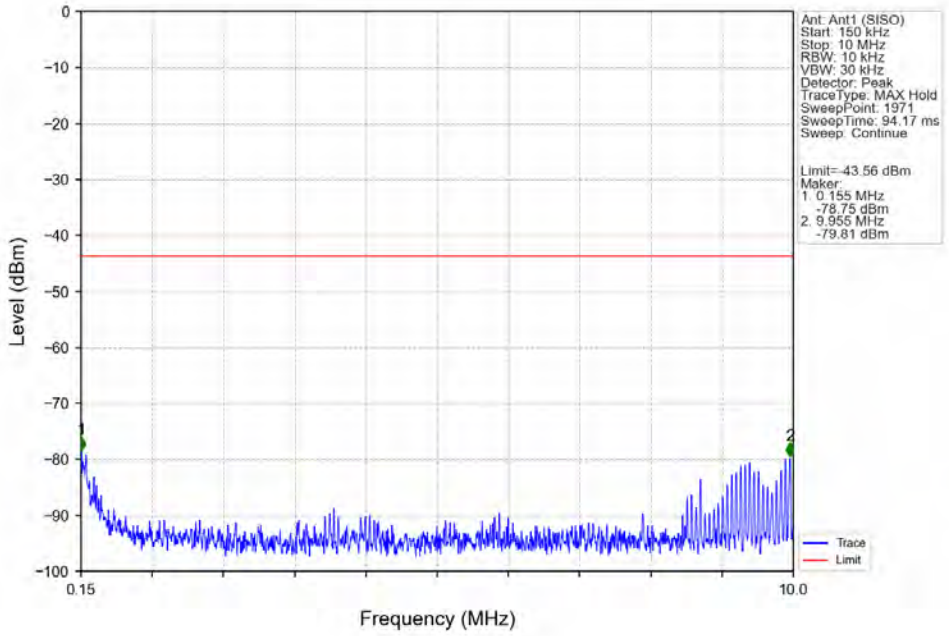

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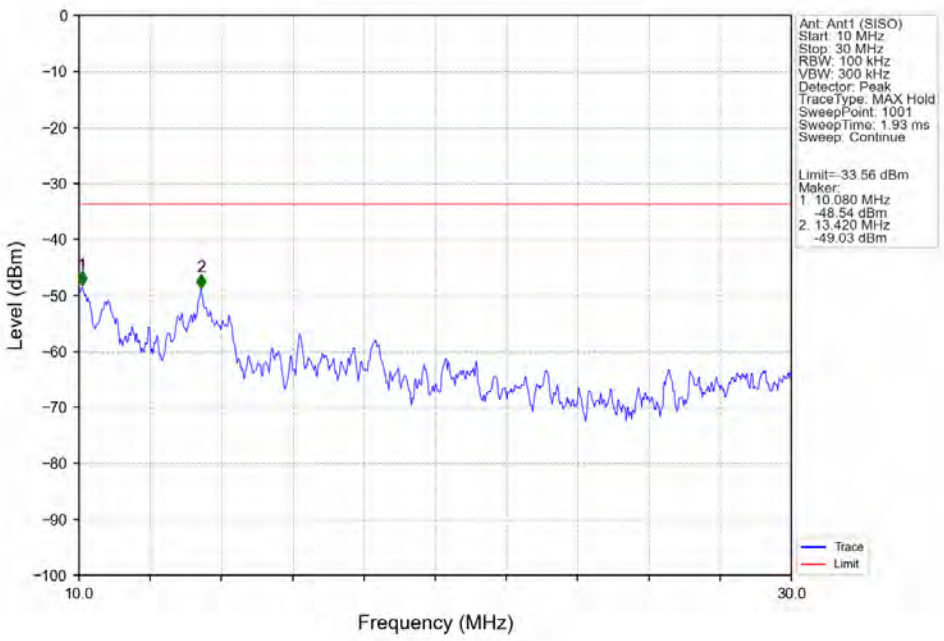

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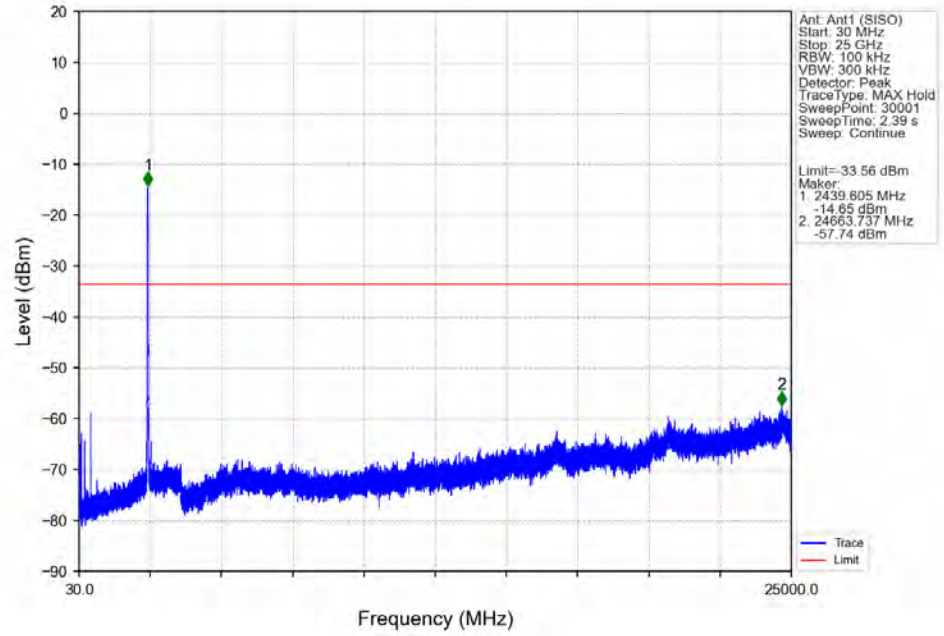

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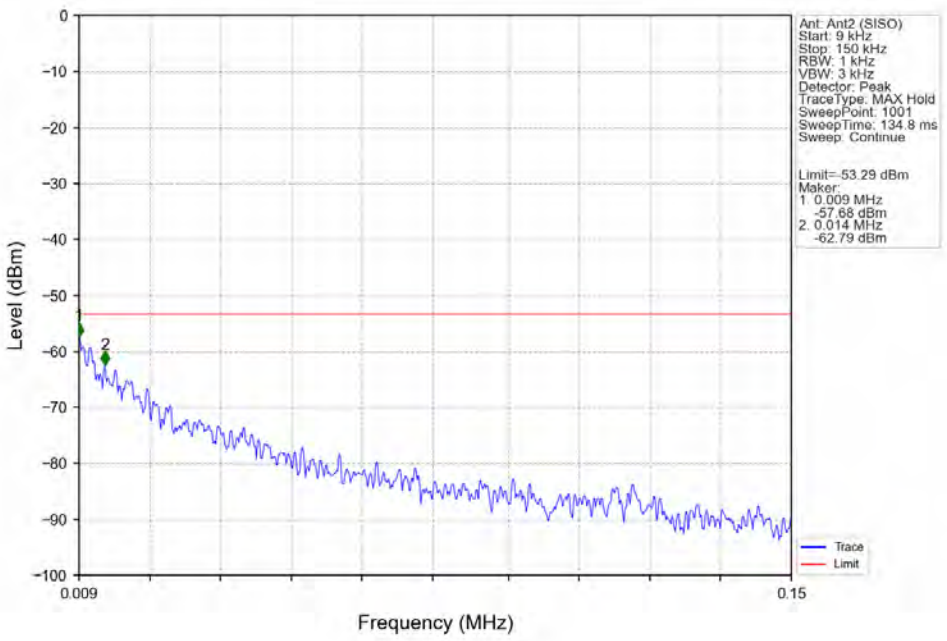

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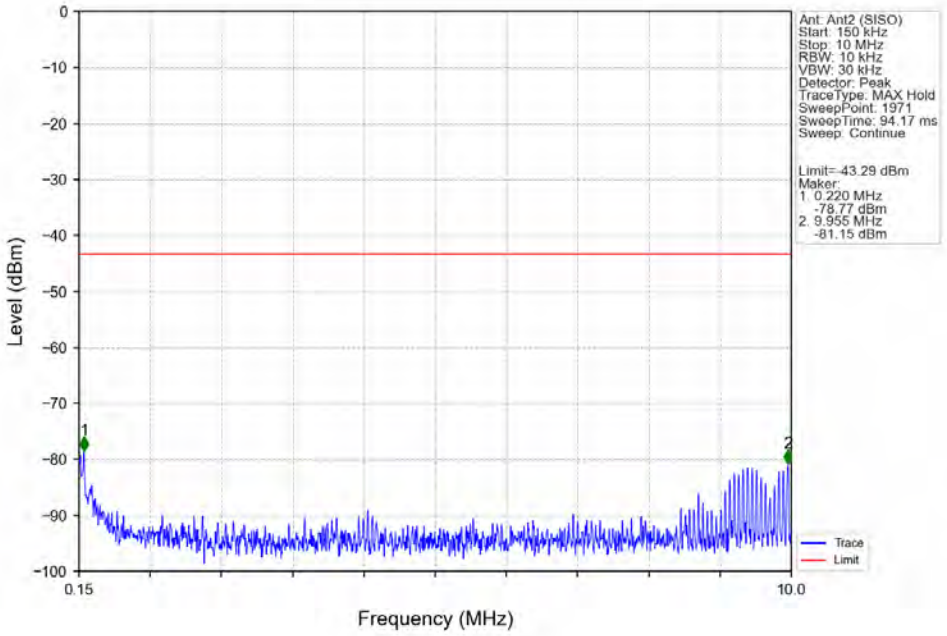

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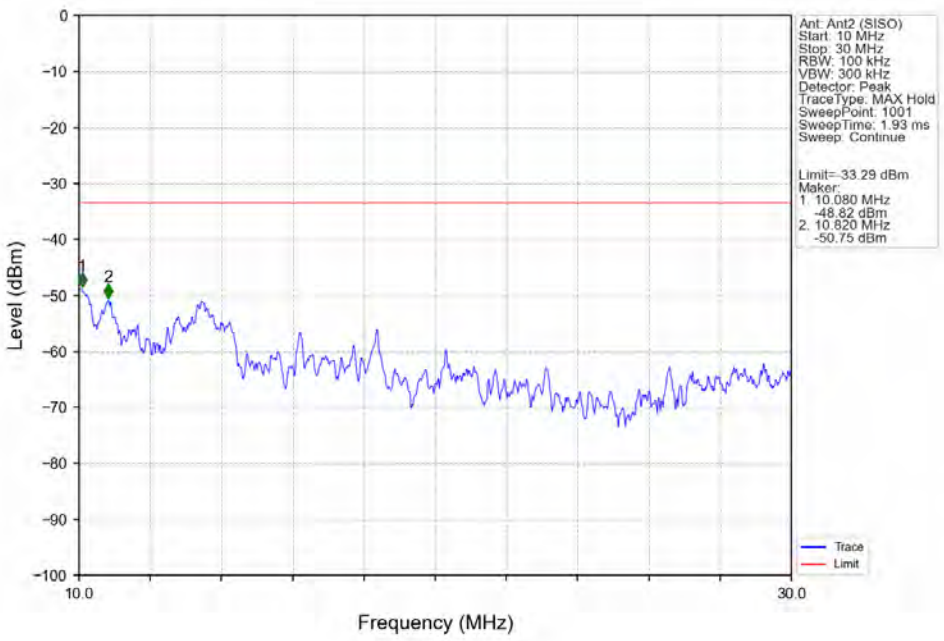

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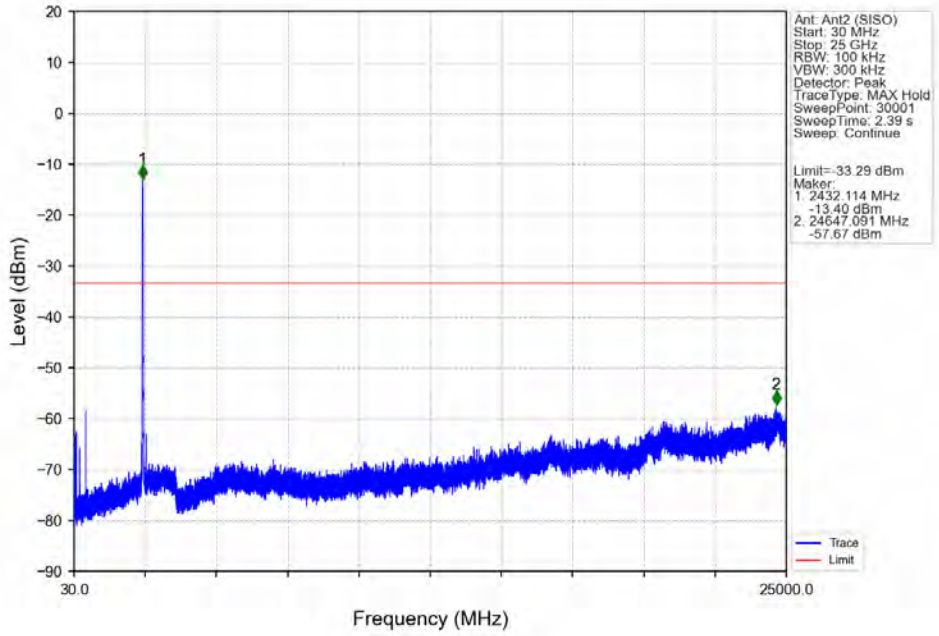

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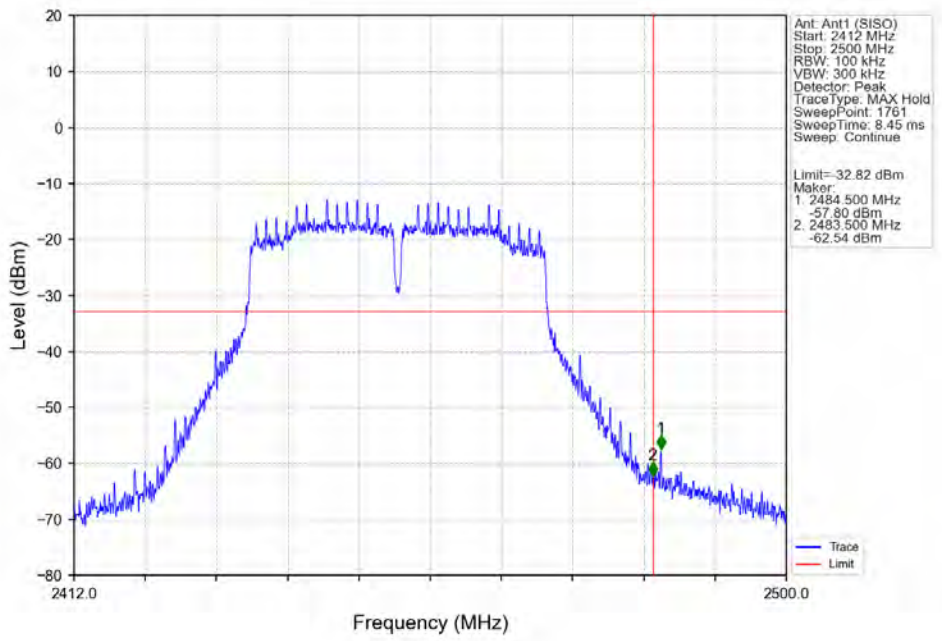

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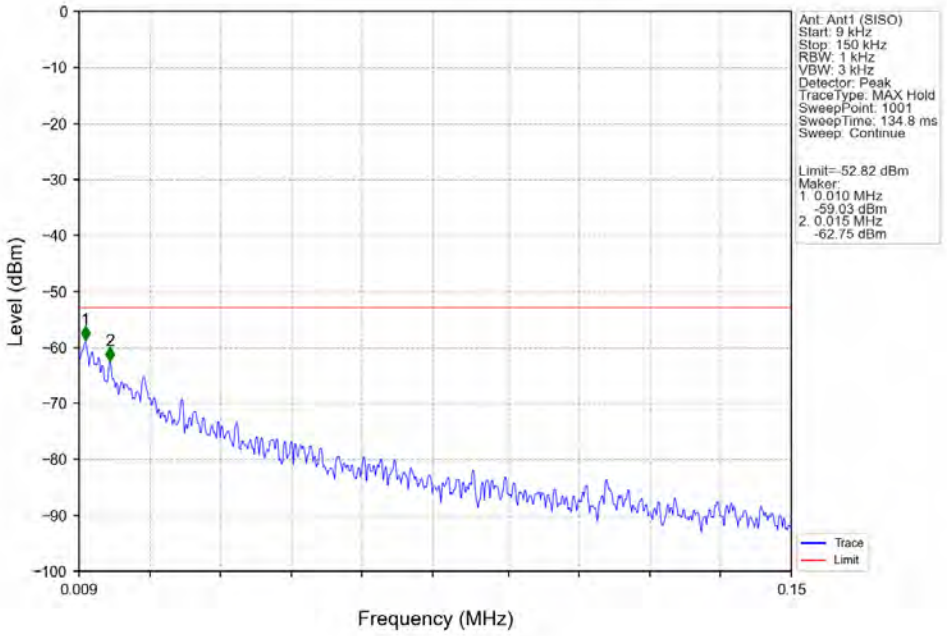

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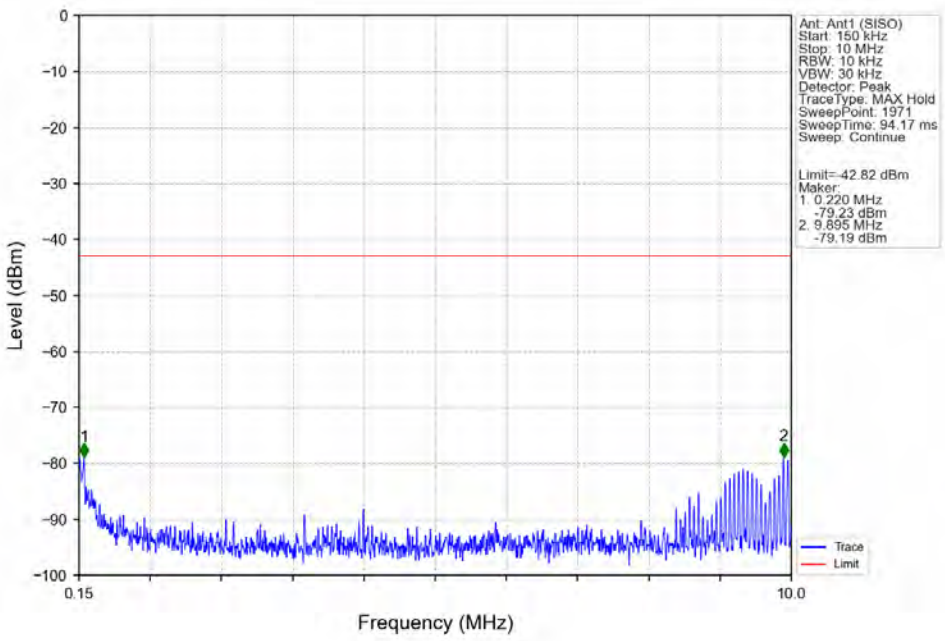

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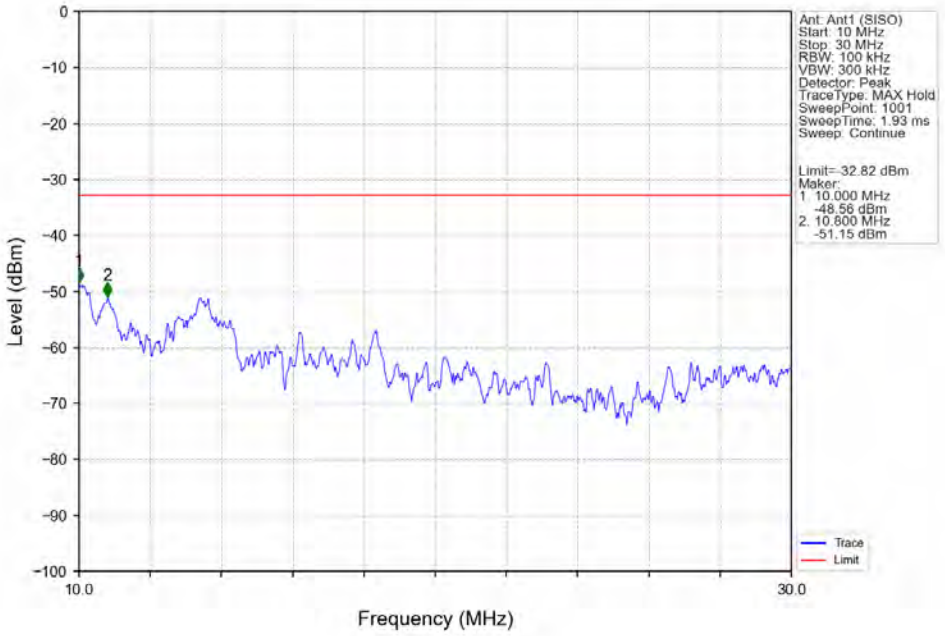

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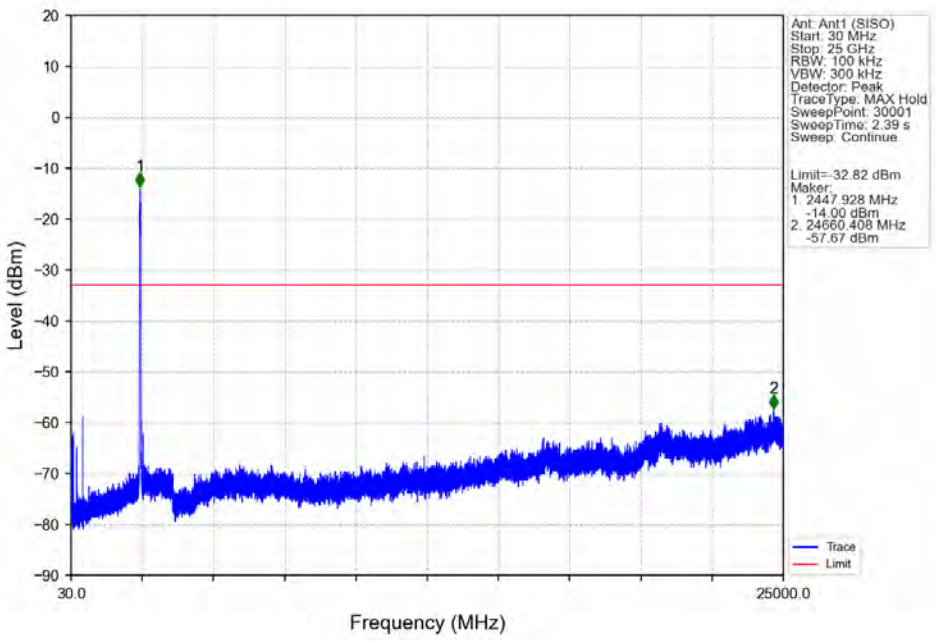

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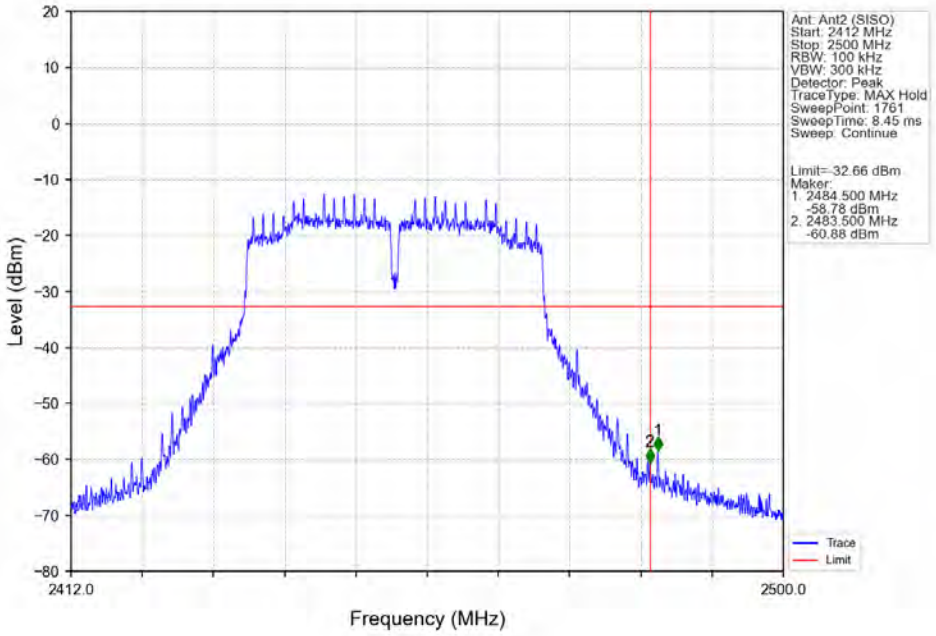
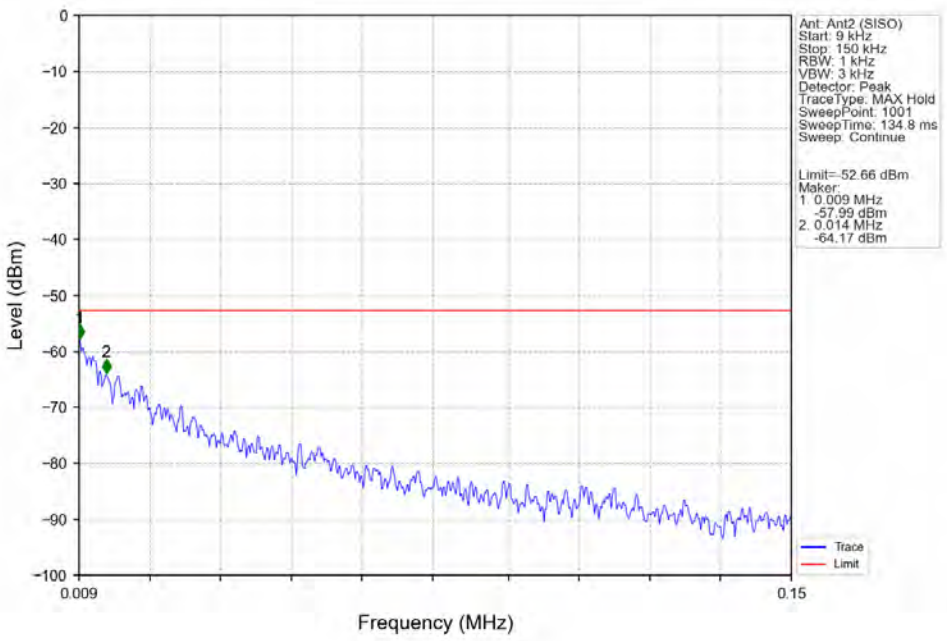
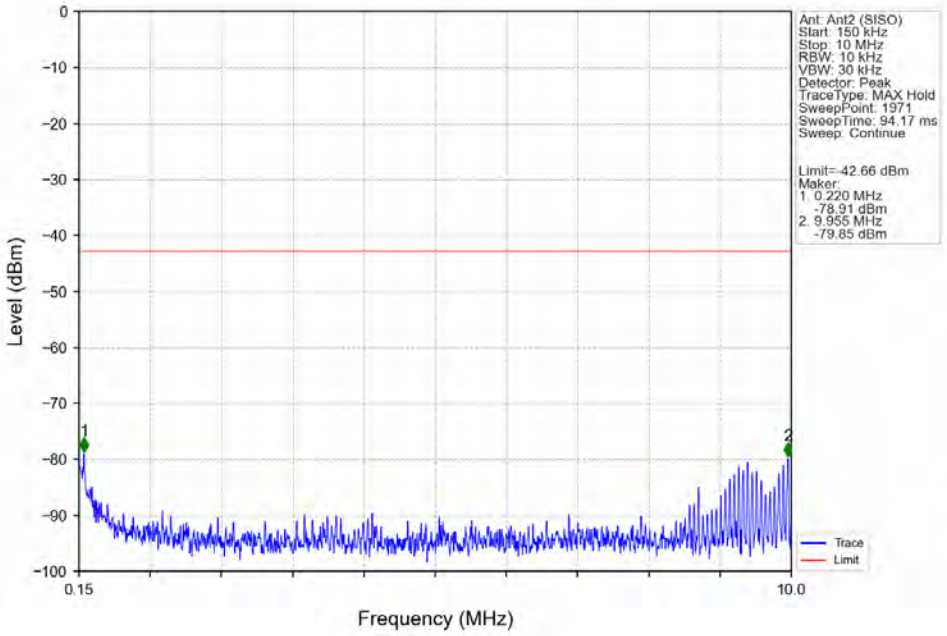


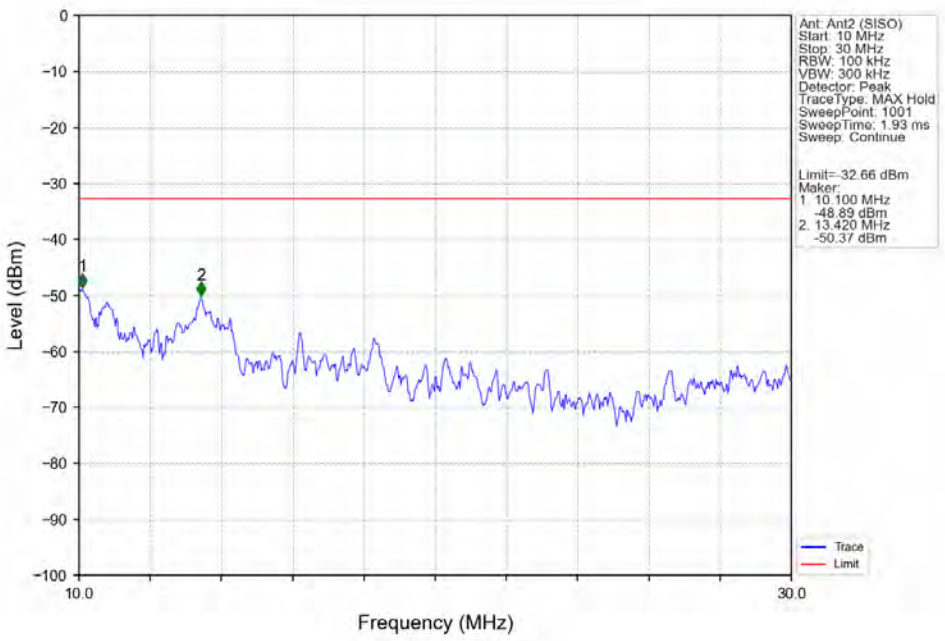
802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



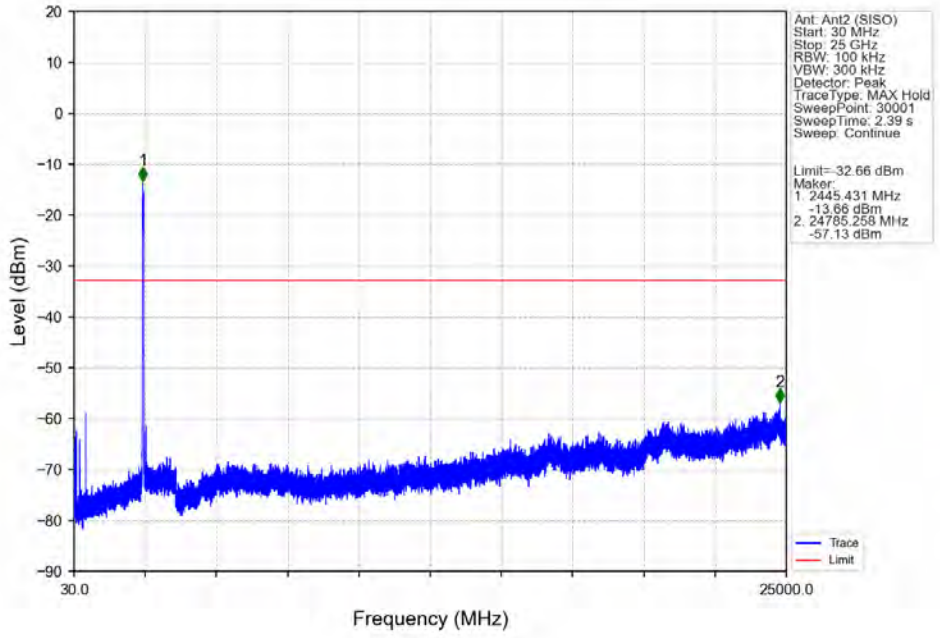
802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



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--- End of Report ---

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