TEST REPORT

Application No.:	SZCR2412004795AT
Applicant:	Skyhigh Tech LLC
Address of Applicant:	1209 Orange Street, Wilmington, 19801
Manufacturer:	Skyhigh Tech LLC
Address of Manufacturer:	1209 Orange Street, Wilmington, 19801
Equipment Under Test (EUT):	
EUT Name:	Talos T60X
Model No.:	Talos T60X
FCC ID:	2BLZI-T60X2411
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2024-12-20
Date of Test:	2025-03-04 to 2025-03-13
Date of Issue:	2025-04-08
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager

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Revision Record				
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01		2025-04-08		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

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3 Contents

Page

1 Cover Page 1

2 Test Summary 3

3 Contents 4

4 General Information 6

4.1 Details of E.U.T. 6
4.2 Description of Support Units 6
4.3 Measurement Uncertainty 7
4.4 Test Location 8
4.5 Test Facility 8
4.6 Deviation from Standards 8
4.7 Abnormalities from Standard Conditions 8

5 Equipment List 9

6 Radio Spectrum Technical Requirement 11

6.1 Antenna Requirement 11
6.1.1 Test Requirement: 11
6.1.2 Conclusion 11

7 Radio Spectrum Matter Test Results 12

7.1 Radiated Emissions which fall in the restricted bands 12
7.1.1 E.U.T. Operation 12
7.1.2 Test Mode Description 12
7.1.3 Test Setup Diagram 13
7.1.4 Measurement Procedure and Data 14
7.2 Radiated Spurious Emissions Below 1GHz 71
7.2.1 E.U.T. Operation 71
7.2.2 Test Mode Description 71
7.2.3 Test Setup Diagram 72
7.2.4 Measurement Procedure and Data 72
7.3 Radiated Spurious Emissions Above 1GHz 75
7.3.1 E.U.T. Operation 75
7.3.2 Test Mode Description 75
7.3.3 Test Setup Diagram 75
7.3.4 Measurement Procedure and Data 76
7.4 Conducted Peak Output Power 83
7.4.1 E.U.T. Operation 83
7.4.2 Test Mode Description 83
7.4.3 Test Setup Diagram 84
7.4.4 Measurement Procedure and Data 84
7.5 Minimum 6dB Bandwidth 85
7.5.1 E.U.T. Operation 85

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7.5.2 Test Mode Description 85
7.5.3 Test Setup Diagram 85
7.5.4 Measurement Procedure and Data....85
7.6 Power Spectrum Density....86
7.6.1 E.U.T. Operation 86
7.6.2 Test Mode Description 86
7.6.3 Test Setup Diagram 86
7.6.4 Measurement Procedure and Data....86
7.7 Conducted Band Edges Measurement 87
7.7.1 E.U.T. Operation 87
7.7.2 Test Mode Description 87
7.7.3 Test Setup Diagram 88
7.7.4 Measurement Procedure and Data....88
7.8 Conducted Spurious Emissions 89
7.8.1 E.U.T. Operation 89
7.8.2 Test Mode Description 89
7.8.3 Test Setup Diagram 90
7.8.4 Measurement Procedure and Data....90

8 Test Setup Photo 91

9 EUT Constructional Details (EUT Photos) 91

10 Appendix....92

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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Lithium-Ion Polymer Rechargeable Battery Battery information Model: BAX801-40000mAh-52.22V Nominal Voltage: 52.22V Rated Capacity: 40000mAh, 2088.8Wh
Operation Frequency:	1.4MHz mode A: 2403.5MHz-2467.5MHz(33channel) 1.4MHz mode B: 2405.12MHz-2469.12MHz(33channel) 3MHz mode A: 2405.5MHz-2465.5MHz(21channel) 3MHz mode B: 2408.2MHz-2468.2MHz(21channel) 5MHz mode A: 2404.5MHz-2469.5MHz(14channel) 10MHz mode A: 2407.5MHz-2467.5MHz(61channel) 20MHz mode A: 2412.5MHz-2462.5MHz(51channel) 40MHz mode A: 2422.5MHz-2452.5MHz(31channel) 60MHz mode A: 2432.5MHz-2442.5MHz(11channel)
Channel Spacing:	1.4MHz mode A: 2MHz 1.4MHz mode B: 2MHz 3MHz mode A: 3MHz 3MHz mode B: 3MHz 5MHz mode A: 5MHz 10MHz mode A: 1MHz 20MHz mode A: 1MHz 40MHz mode A: 1MHz 60MHz mode A: 1MHz
Modulation Type:	OFDM
Antenna Type:	Dipole Antenna
Antenna Gain:	Ant 0: 2.6dBi; Ant 1: 3.18dBi; Ant 2: 2.6dBi; Ant 3: 3.18dBi
Cable Loss (for RF conducted test):	0.9dB

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Spurious Emissions Below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2025-03-04	2026-03-03
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05

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Radiated Spurious Emissions Above 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

RF Conducted Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(b) (4) requirement:
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
EUT Antenna:
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is: Ant 0: 2.6dBi; Ant 1: 3.18dBi; Ant 2: 2.6dBi; Ant 3: 3.18dBi.

Antenna combination (MIMO mode)	Directional Gain (dBi)
ANT0 &ANT1	6.19
ANT0 &ANT3	5.61
ANT2 &ANT1	6.19
ANT2 &ANT3	6.19

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.10.5
Measurement Distance: 3m

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
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	01	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	02	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	03	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	04	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	05	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	06	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode

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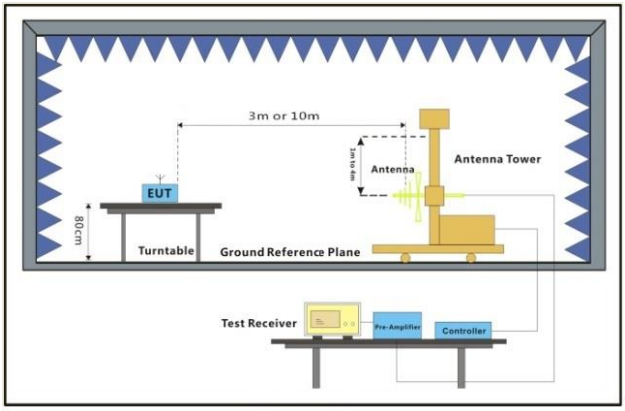
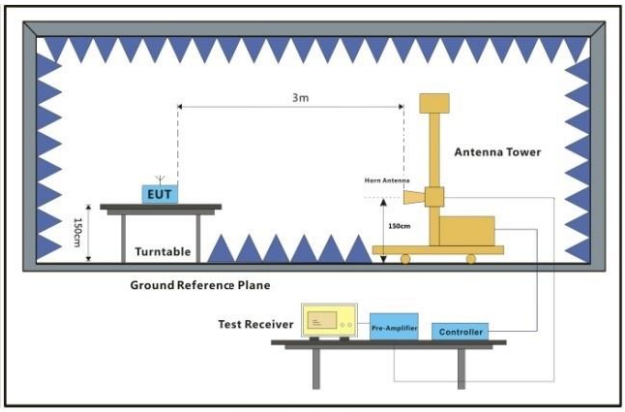
7.1.3 Test Setup Diagram



30MHz-1GHz



Above 1GHz

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7.1.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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

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

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

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

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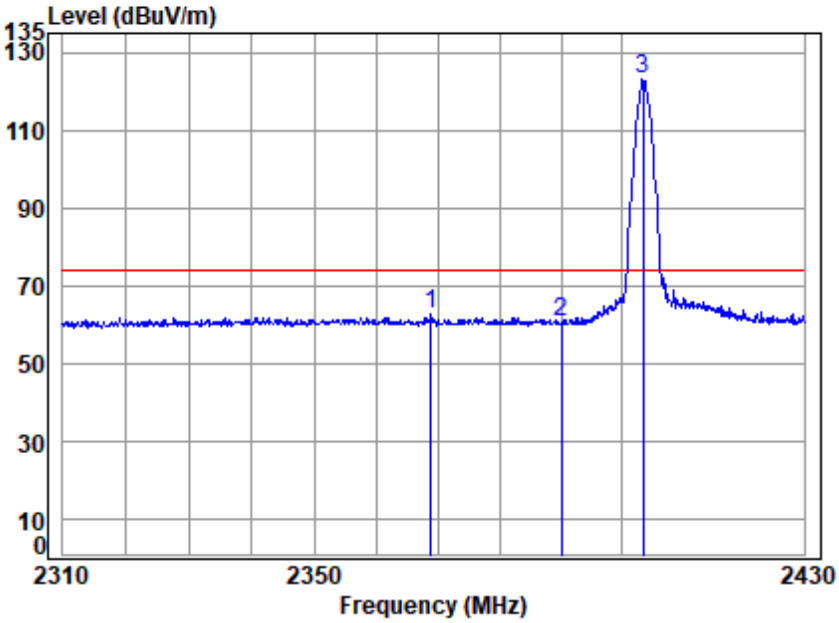
Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2403.5 Band edge
: 2.4G SDR 1.4M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2368.880	3.65	29.10	0.00	29.79	62.54	74.00	-11.46	peak
2	2390.000	3.66	29.10	0.00	27.80	60.56	74.00	-13.44	peak
3 p	2403.500	3.67	29.09	0.00	90.41	123.17	74.00	49.17	peak

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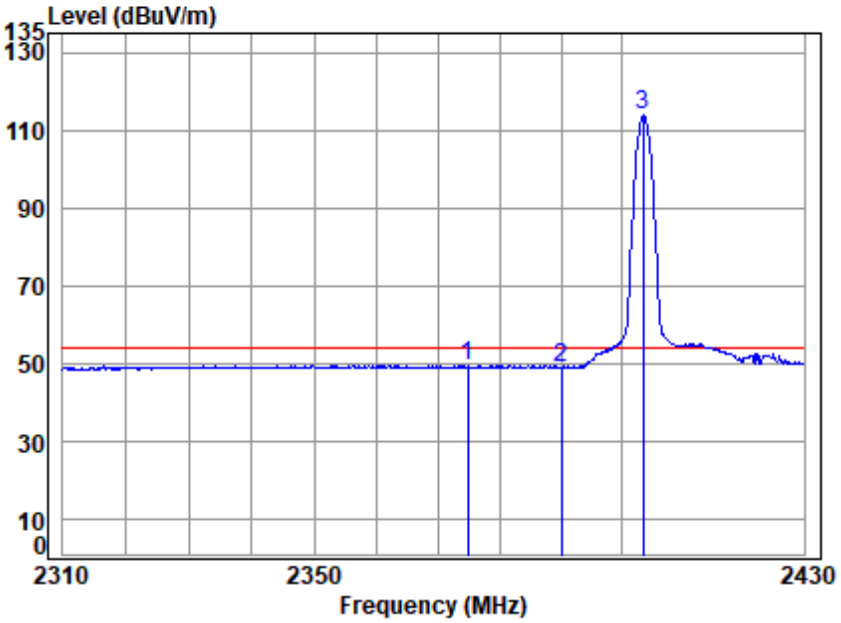
Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2403.5 Band edge
: 2.4G SDR 1.4M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2374.886	3.65	29.10	0.00	16.76	49.51	54.00	-4.49	Average
2	2390.000	3.66	29.10	0.00	16.13	48.89	54.00	-5.11	Average
3 q	2403.500	3.67	29.09	0.00	80.99	113.75	54.00	59.75	Average

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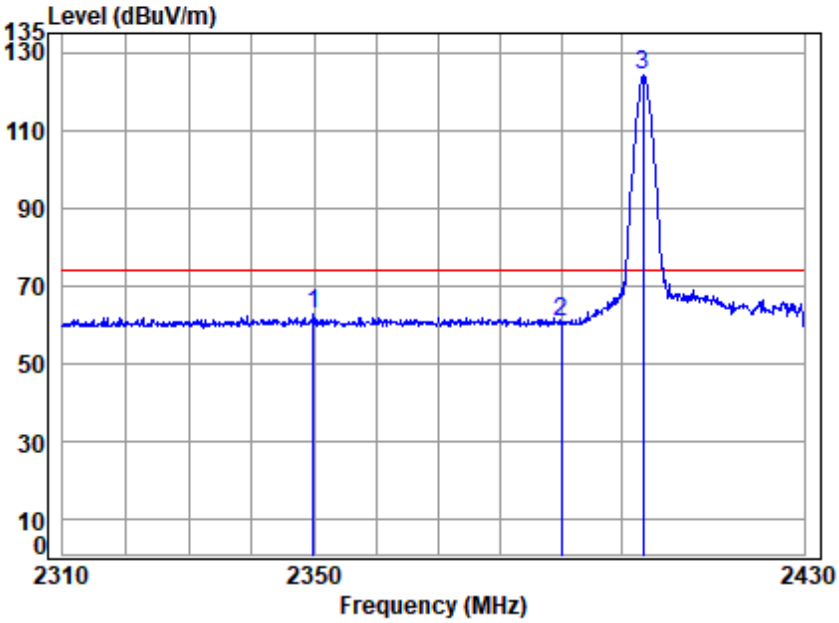
Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2403.5 Band edge
: 2.4G SDR 1.4M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2349.882	3.63	29.10	0.00	29.73	62.46	74.00	-11.54	Peak
2	2390.000	3.66	29.10	0.00	27.77	60.53	74.00	-13.47	Peak
3 p	2403.500	3.67	29.09	0.00	91.33	124.09	74.00	50.09	Peak

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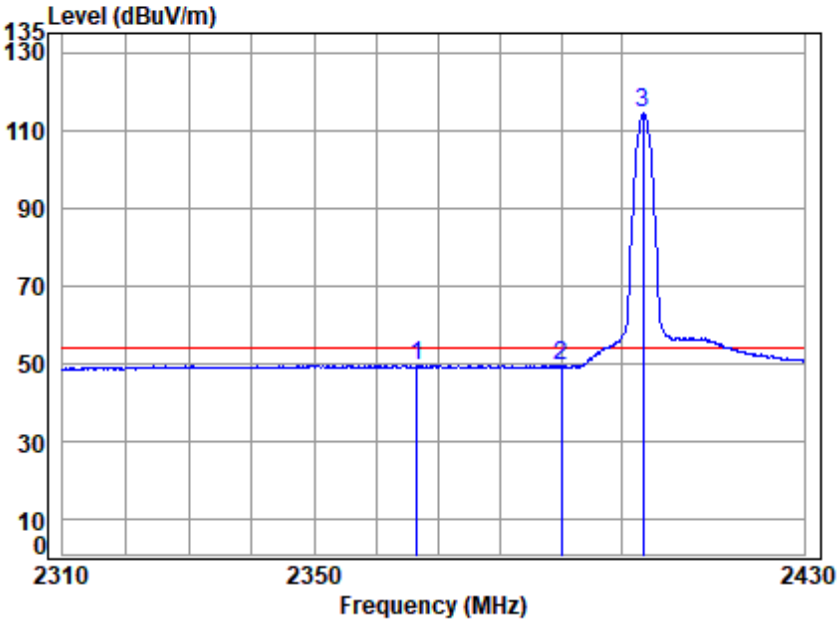
Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2403.5 Band edge
: 2.4G SDR 1.4M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2366.602	3.64	29.10	0.00	16.68	49.42	54.00	-4.58	Average
2	2390.000	3.66	29.10	0.00	16.31	49.07	54.00	-4.93	Average
3 q	2403.500	3.67	29.09	0.00	81.57	114.33	54.00	60.33	Average

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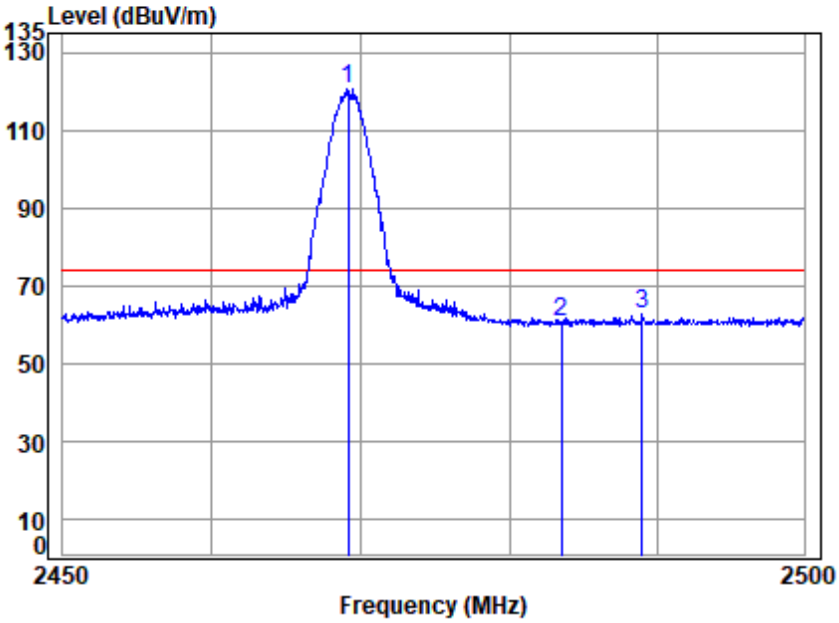
Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2469.12 Band edge
: 2.4G SDR 1.4M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2469.120	3.72	28.90	0.00	88.09	120.71	74.00	46.71	peak
2	2483.500	3.73	28.90	0.00	27.77	60.40	74.00	-13.60	peak
3	2488.963	3.73	28.90	0.00	29.80	62.43	74.00	-11.57	peak

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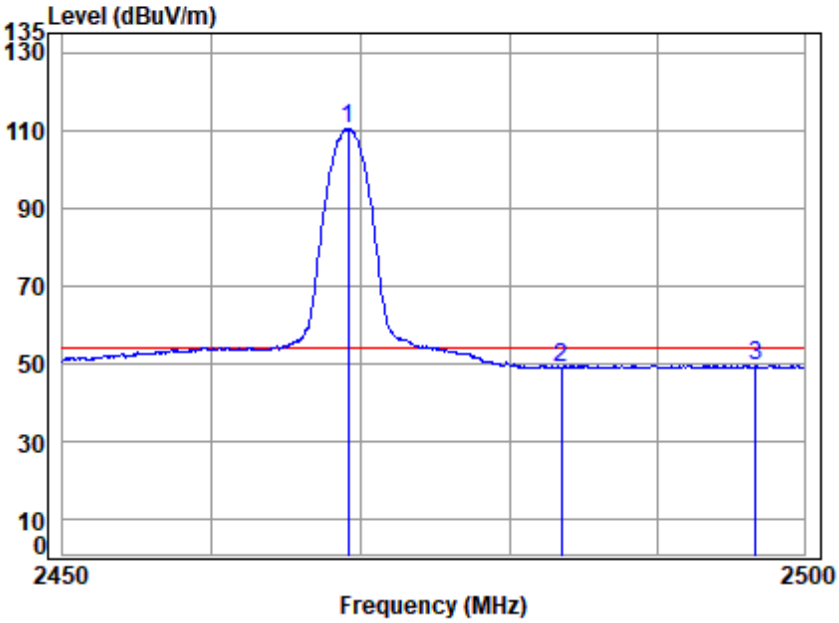
Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2469.12 Band edge
: 2.4G SDR 1.4M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2469.120	3.72	28.90	0.00	77.68	110.30	54.00	56.30	Average
2	2483.500	3.73	28.90	0.00	16.30	48.93	54.00	-5.07	Average
3	2496.719	3.74	28.90	0.00	16.71	49.35	54.00	-4.65	Average

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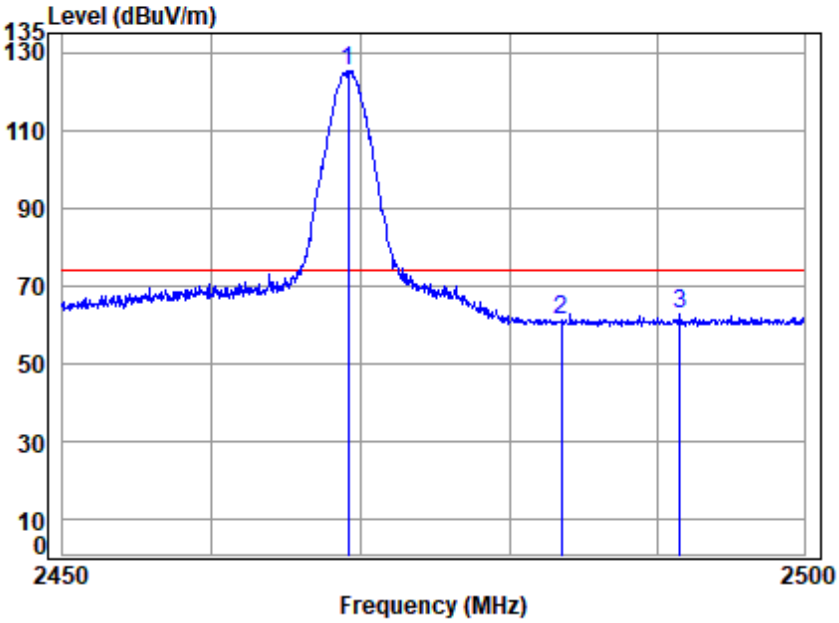
Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2469.12 Band edge
: 2.4G SDR 1.4M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2469.120	3.72	28.90	0.00	92.87	125.49	74.00	51.49	Peak
2	2483.500	3.73	28.90	0.00	28.61	61.24	74.00	-12.76	Peak
3	2491.580	3.73	28.90	0.00	30.25	62.88	74.00	-11.12	Peak

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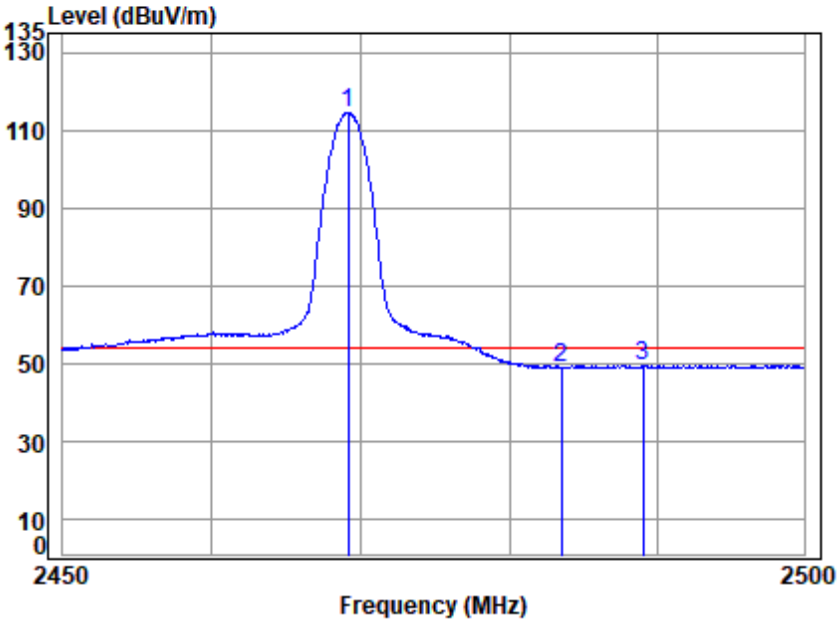
Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2469.12 Band edge
: 2.4G SDR 1.4M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2469.120	3.72	28.90	0.00	81.95	114.57	54.00	60.57	Average
2	2483.500	3.73	28.90	0.00	16.32	48.95	54.00	-5.05	Average
3	2489.064	3.73	28.90	0.00	16.75	49.38	54.00	-4.62	Average

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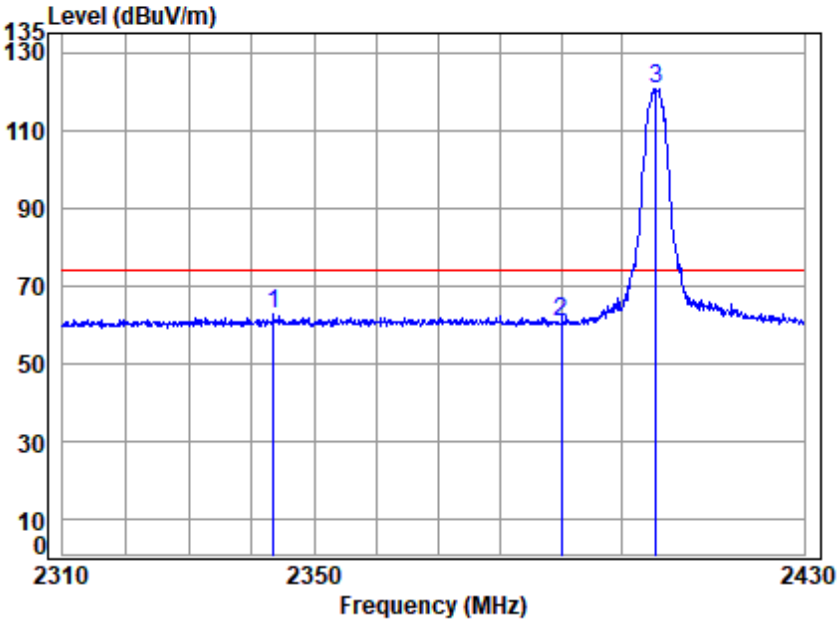
Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2405.5 Band edge
: 2.4G SDR 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2343.464	3.63	29.01	0.00	29.90	62.54	74.00	-11.46	peak
2	2390.000	3.66	29.10	0.00	27.96	60.72	74.00	-13.28	peak
3 p	2405.500	3.67	29.08	0.00	87.95	120.70	74.00	46.70	peak

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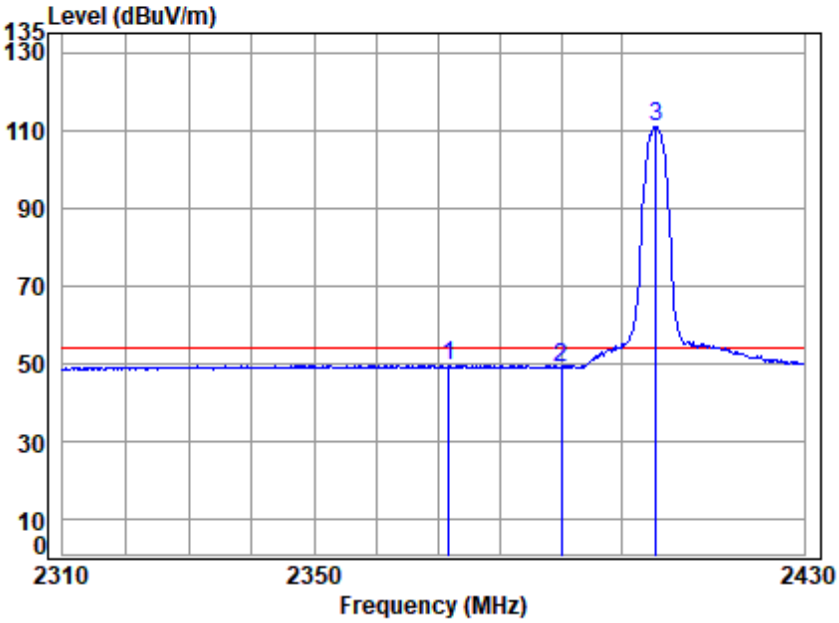
Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2405.5 Band edge
: 2.4G SDR 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2371.761	3.65	29.10	0.00	16.71	49.46	54.00	-4.54	Average
2	2390.000	3.66	29.10	0.00	16.21	48.97	54.00	-5.03	Average
3 q	2405.500	3.67	29.08	0.00	78.29	111.04	54.00	57.04	Average

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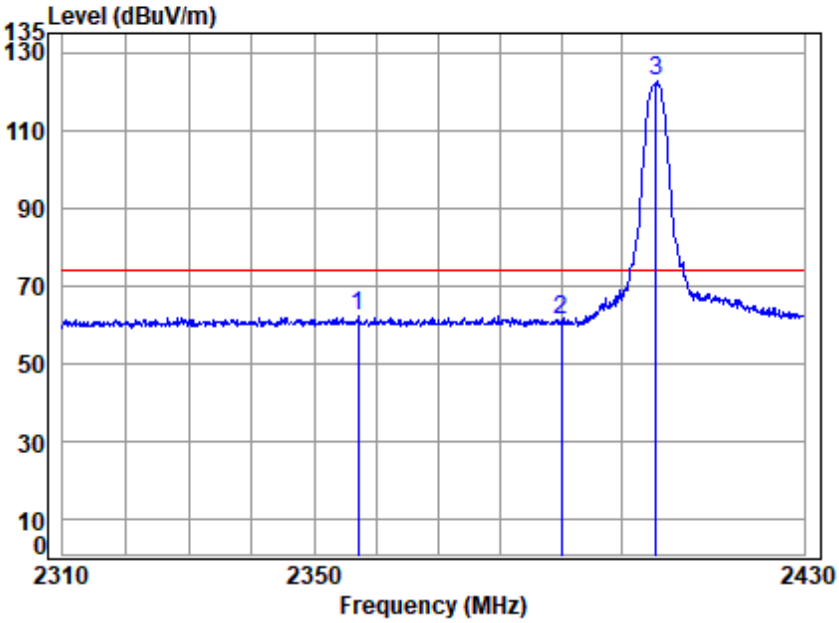
Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2405.5 Band edge
: 2.4G SDR 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2357.153	3.64	29.10	0.00	29.25	61.99	74.00	-12.01	Peak
2	2390.000	3.66	29.10	0.00	28.20	60.96	74.00	-13.04	Peak
3 p	2405.500	3.67	29.08	0.00	89.84	122.59	74.00	48.59	Peak

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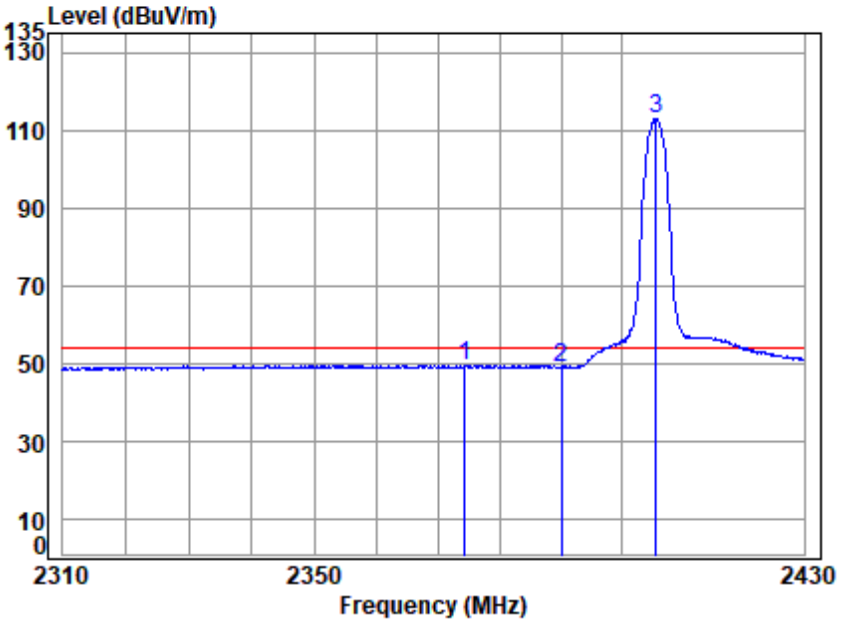
Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2405.5 Band edge
: 2.4G SDR 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2374.285	3.65	29.10	0.00	16.70	49.45	54.00	-4.55	Average
2	2390.000	3.66	29.10	0.00	16.03	48.79	54.00	-5.21	Average
3 q	2405.500	3.67	29.08	0.00	80.33	113.08	54.00	59.08	Average

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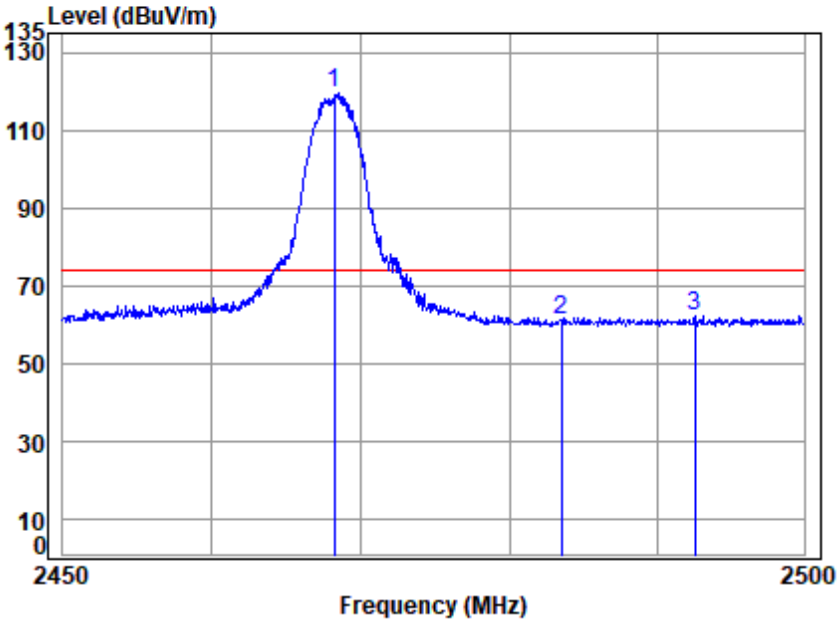
Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2468.2 Band edge
: 2.4G SDR 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2468.200	3.72	28.90	0.00	86.73	119.35	74.00	45.35	peak
2	2483.500	3.73	28.90	0.00	28.23	60.86	74.00	-13.14	peak
3	2492.586	3.73	28.90	0.00	29.48	62.11	74.00	-11.89	peak

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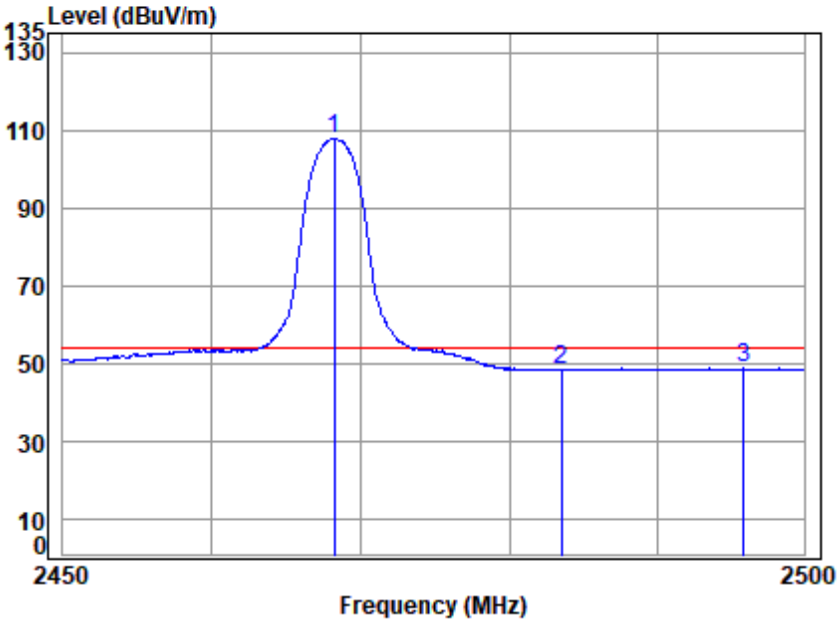
Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2468.2 Band edge
: 2.4G SDR 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2468.200	3.72	28.90	0.00	75.29	107.91	54.00	53.91	Average
2	2483.500	3.73	28.90	0.00	15.73	48.36	54.00	-5.64	Average
3	2495.862	3.74	28.90	0.00	15.92	48.56	54.00	-5.44	Average

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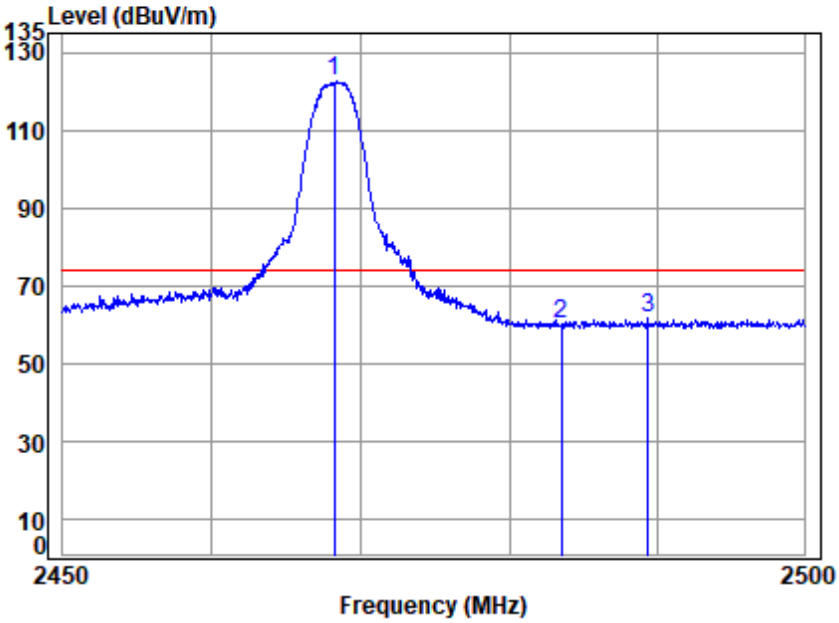
Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2468.2 Band edge
: 2.4G SDR 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2468.200	3.72	28.90	0.00	89.87	122.49	74.00	48.49	Peak
2	2483.500	3.73	28.90	0.00	27.24	59.87	74.00	-14.13	Peak
3	2489.366	3.73	28.90	0.00	28.84	61.47	74.00	-12.53	Peak

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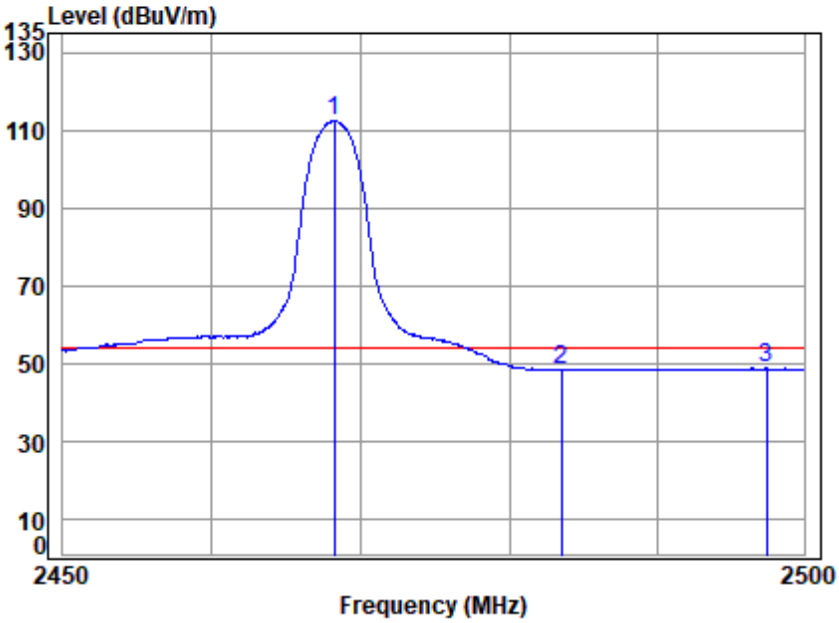
Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2468.2 Band edge
: 2.4G SDR 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2468.200	3.72	28.90	0.00	79.80	112.42	54.00	58.42	Average
2	2483.500	3.73	28.90	0.00	15.68	48.31	54.00	-5.69	Average
3	2497.426	3.74	28.90	0.00	15.96	48.60	54.00	-5.40	Average

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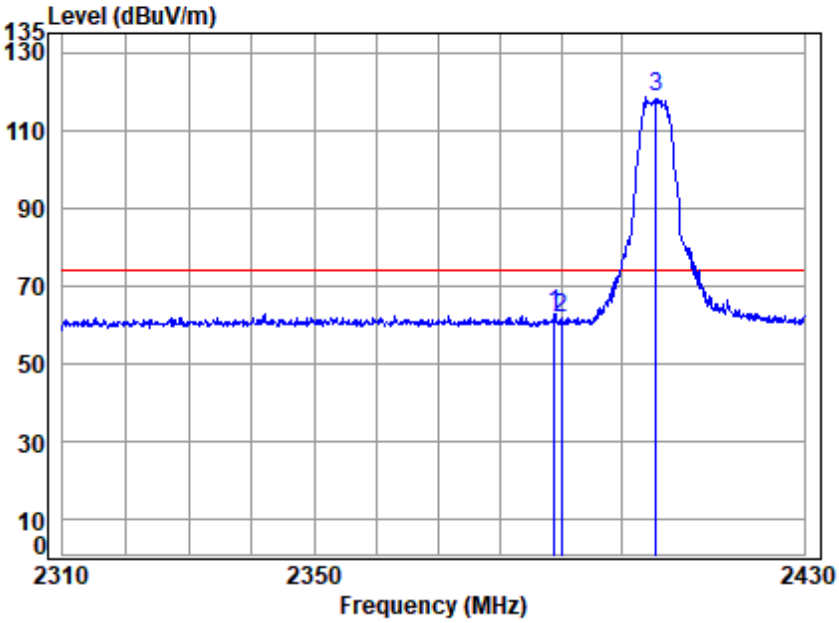
Test Mode: 02; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2405.5 Band edge
: 2.4G SDR 5M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.879	3.66	29.10	0.00	30.02	62.78	74.00	-11.22	peak
2	2390.000	3.66	29.10	0.00	28.65	61.41	74.00	-12.59	peak
3 p	2405.500	3.67	29.08	0.00	85.81	118.56	74.00	44.56	peak

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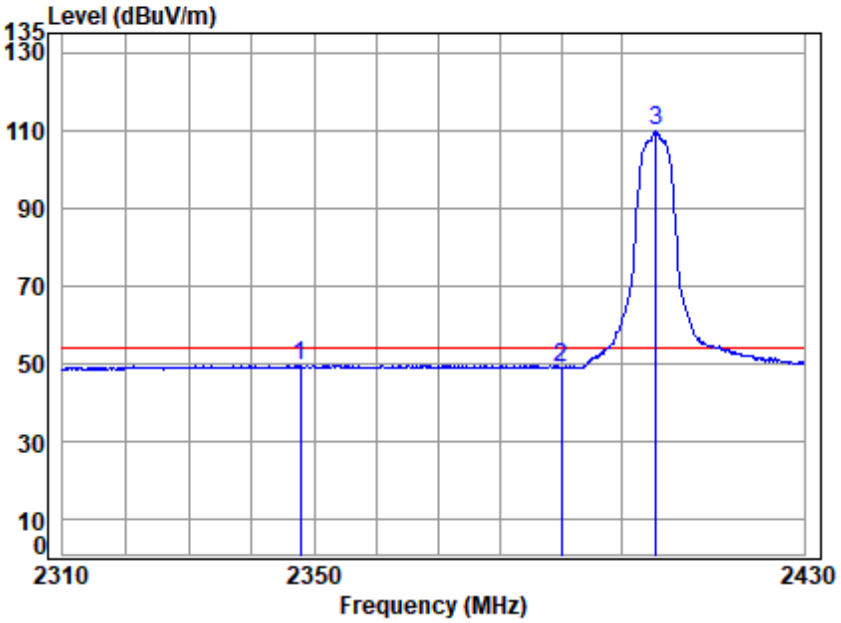
Test Mode: 02; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2405.5 Band edge
: 2.4G SDR 5M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2347.741	3.63	29.07	0.00	16.72	49.42	54.00	-4.58	Average
2	2390.000	3.66	29.10	0.00	16.15	48.91	54.00	-5.09	Average
3 q	2405.500	3.67	29.08	0.00	77.18	109.93	54.00	55.93	Average

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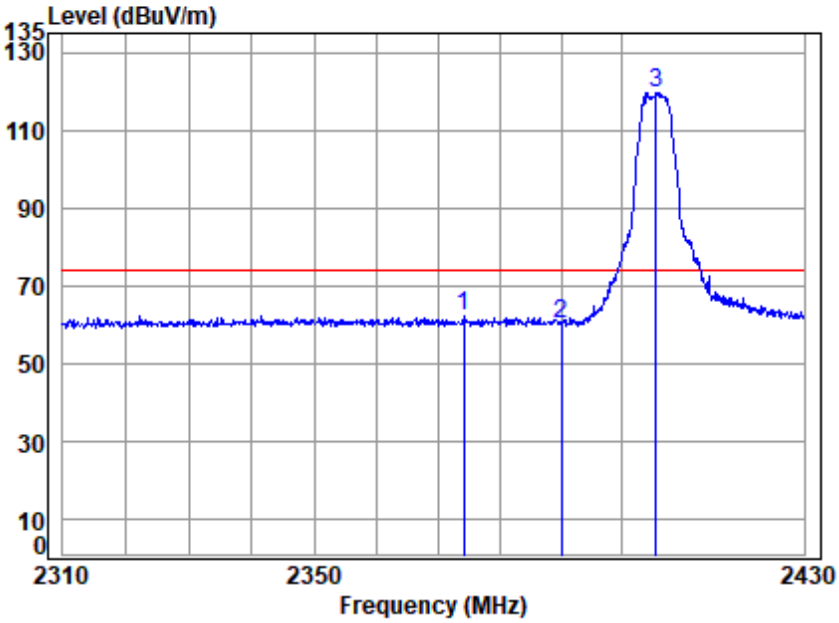
Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2405.5 Band edge
: 2.4G SDR 5M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2374.165	3.65	29.10	0.00	29.27	62.02	74.00	-11.98	Peak
2	2390.000	3.66	29.10	0.00	27.40	60.16	74.00	-13.84	Peak
3 p	2405.500	3.67	29.08	0.00	87.06	119.81	74.00	45.81	Peak

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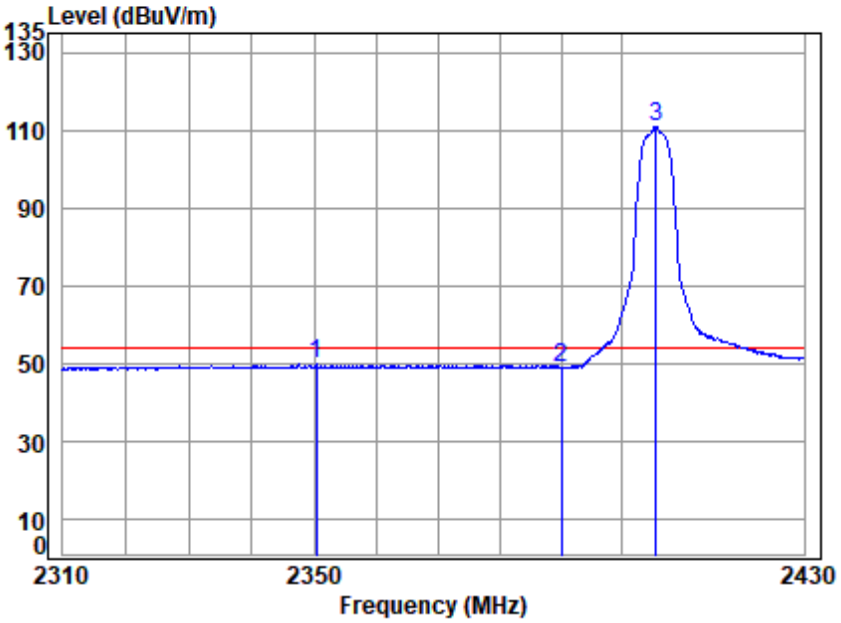
Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2405.5 Band edge
: 2.4G SDR 5M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2350.358	3.63	29.10	0.00	16.84	49.57	54.00	-4.43	Average
2	2390.000	3.66	29.10	0.00	16.14	48.90	54.00	-5.10	Average
3 q	2405.500	3.67	29.08	0.00	78.19	110.94	54.00	56.94	Average

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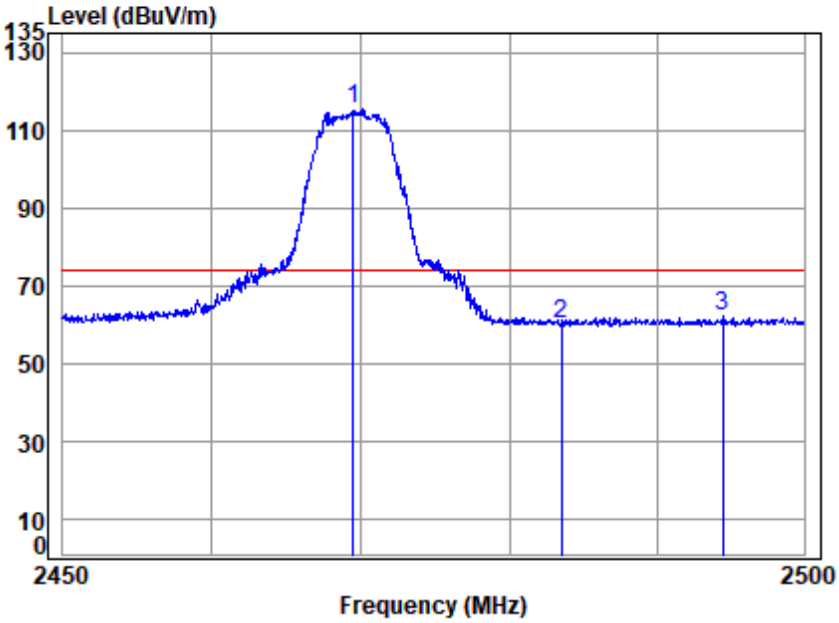
Test Mode: 02; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2469.5 Band edge
: 2.4G SDR 5M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2469.500	3.72	28.90	0.00	82.77	115.39	74.00	41.39	peak
2	2483.500	3.73	28.90	0.00	27.53	60.16	74.00	-13.84	peak
3	2494.501	3.74	28.90	0.00	29.50	62.14	74.00	-11.86	peak

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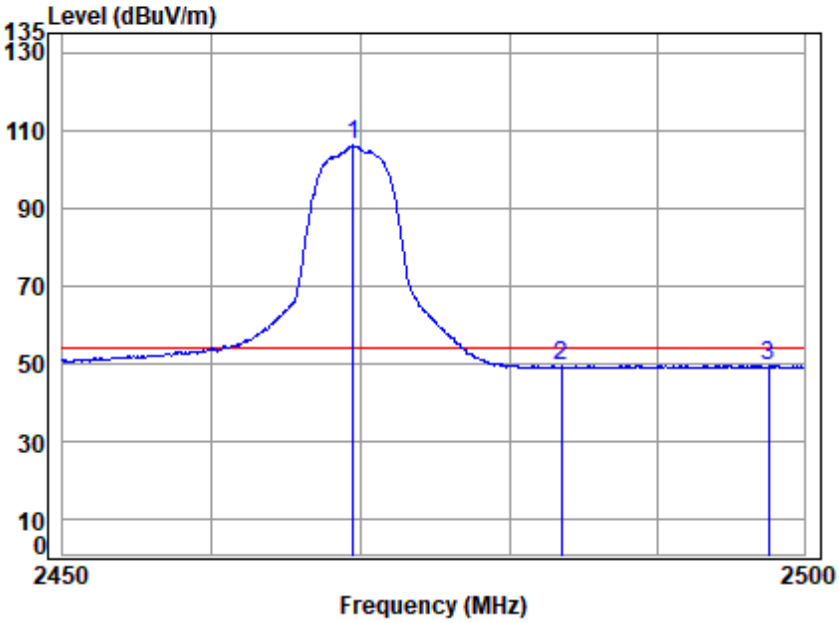
Test Mode: 02; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2469.5 Band edge
: 2.4G SDR 5M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2469.500	3.72	28.90	0.00	73.43	106.05	54.00	52.05	Average
2	2483.500	3.73	28.90	0.00	16.40	49.03	54.00	-4.97	Average
3	2497.577	3.74	28.90	0.00	16.82	49.46	54.00	-4.54	Average

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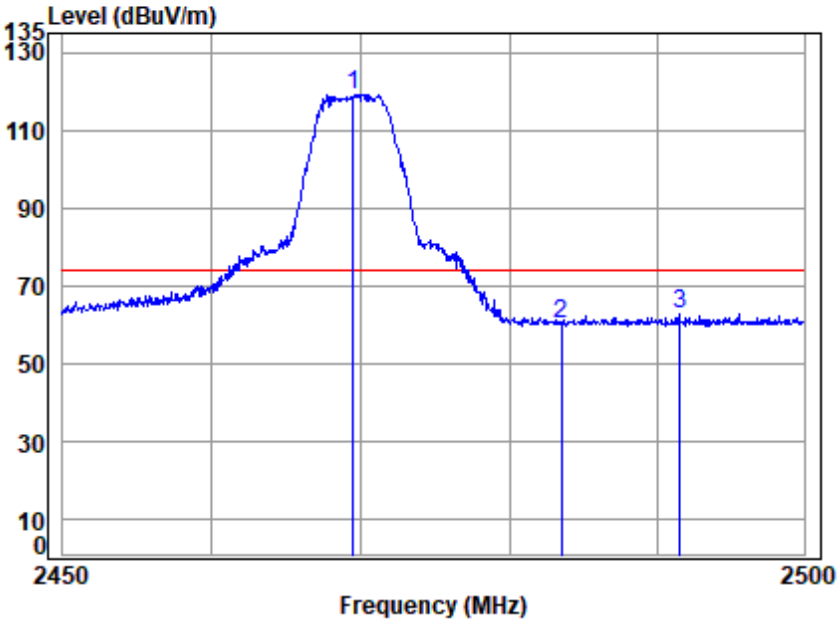
Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2469.5 Band edge
: 2.4G SDR 5M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2469.500	3.72	28.90	0.00	86.50	119.12	74.00	45.12	Peak
2	2483.500	3.73	28.90	0.00	27.30	59.93	74.00	-14.07	Peak
3	2491.529	3.73	28.90	0.00	29.85	62.48	74.00	-11.52	Peak

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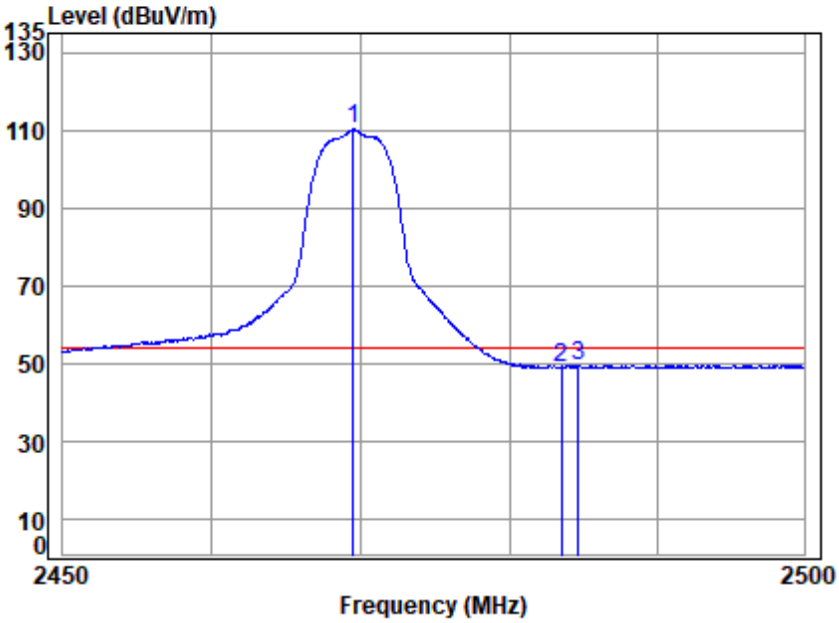
Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2469.5 Band edge
: 2.4G SDR 5M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2469.500	3.72	28.90	0.00	77.69	110.31	54.00	56.31	Average
2	2483.500	3.73	28.90	0.00	16.34	48.97	54.00	-5.03	Average
3	2484.693	3.73	28.90	0.00	16.64	49.27	54.00	-4.73	Average

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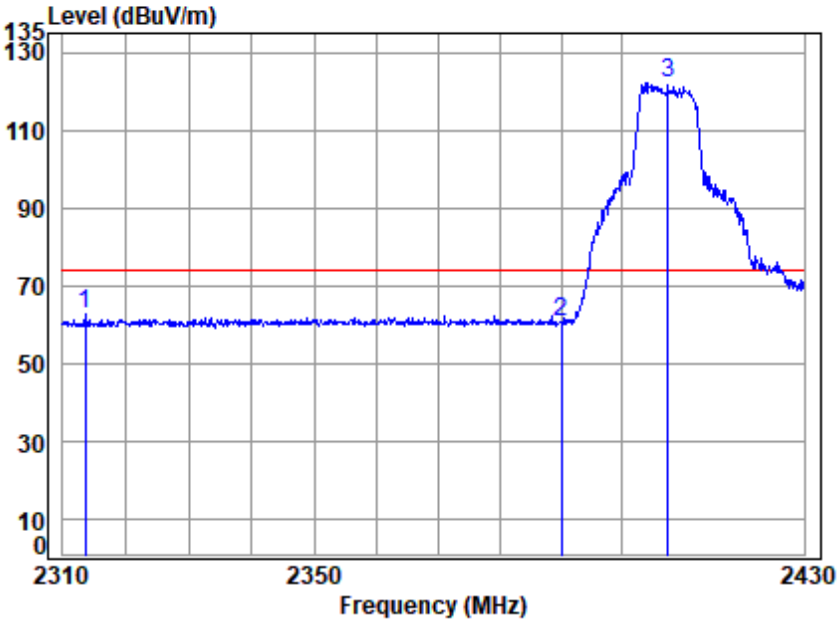
Test Mode: 03; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2407.5 Band edge
: 2.4G SDR 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2313.512	3.60	28.59	0.00	30.18	62.37	74.00	-11.63	peak
2	2390.000	3.66	29.10	0.00	28.05	60.81	74.00	-13.19	peak
3 p	2407.500	3.67	29.07	0.00	89.40	122.14	74.00	48.14	peak

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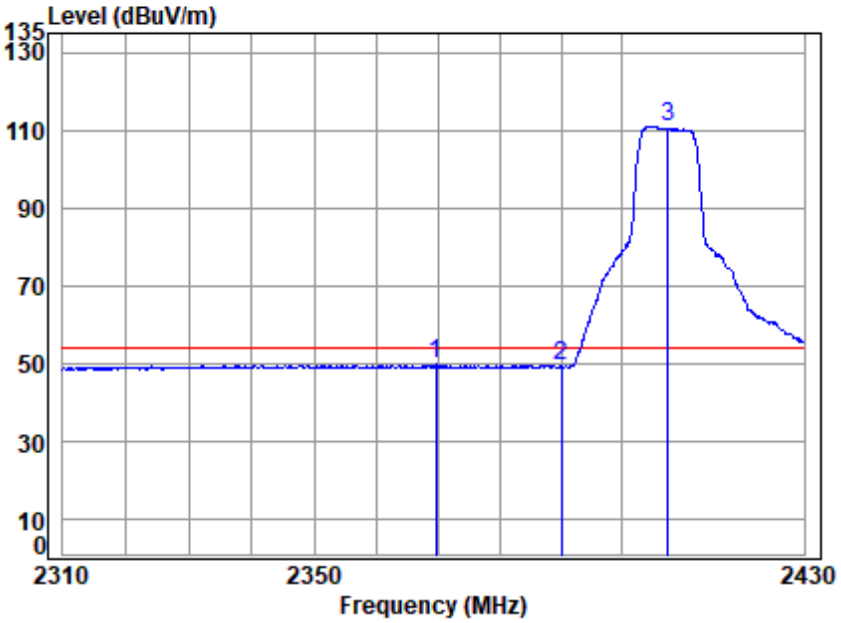
Test Mode: 03; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2407.5 Band edge
: 2.4G SDR 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2369.600	3.65	29.10	0.00	16.89	49.64	54.00	-4.36	Average
2	2390.000	3.66	29.10	0.00	16.44	49.20	54.00	-4.80	Average
3 q	2407.500	3.67	29.07	0.00	78.28	111.02	54.00	57.02	Average

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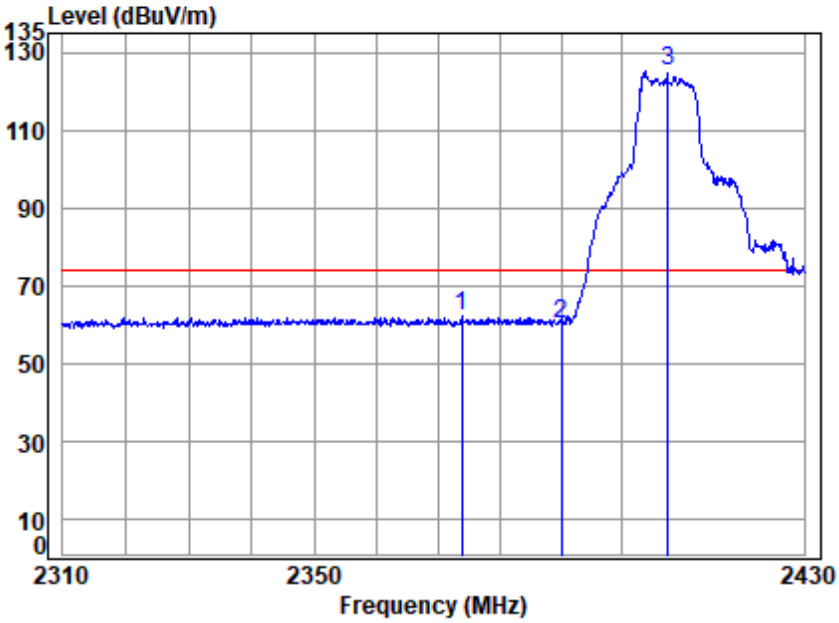
Test Mode: 03; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2407.5 Band edge
: 2.4G SDR 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2373.804	3.65	29.10	0.00	29.23	61.98	74.00	-12.02	Peak
2	2390.000	3.66	29.10	0.00	27.20	59.96	74.00	-14.04	Peak
3 p	2407.500	3.67	29.07	0.00	92.36	125.10	74.00	51.10	Peak

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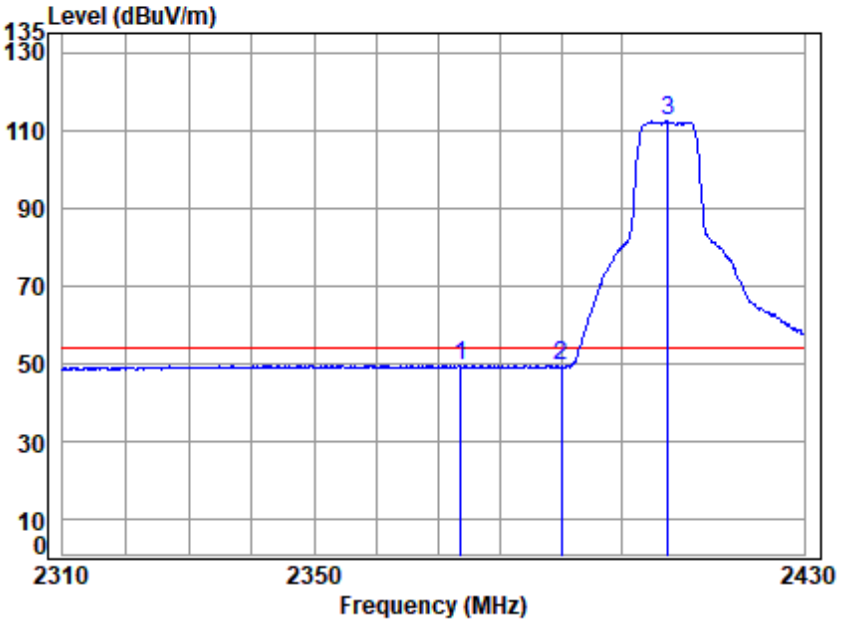
Test Mode: 03; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2407.5 Band edge
: 2.4G SDR 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2373.684	3.65	29.10	0.00	16.64	49.39	54.00	-4.61	Average
2	2390.000	3.66	29.10	0.00	16.35	49.11	54.00	-4.89	Average
3 q	2407.500	3.67	29.07	0.00	79.44	112.18	54.00	58.18	Average

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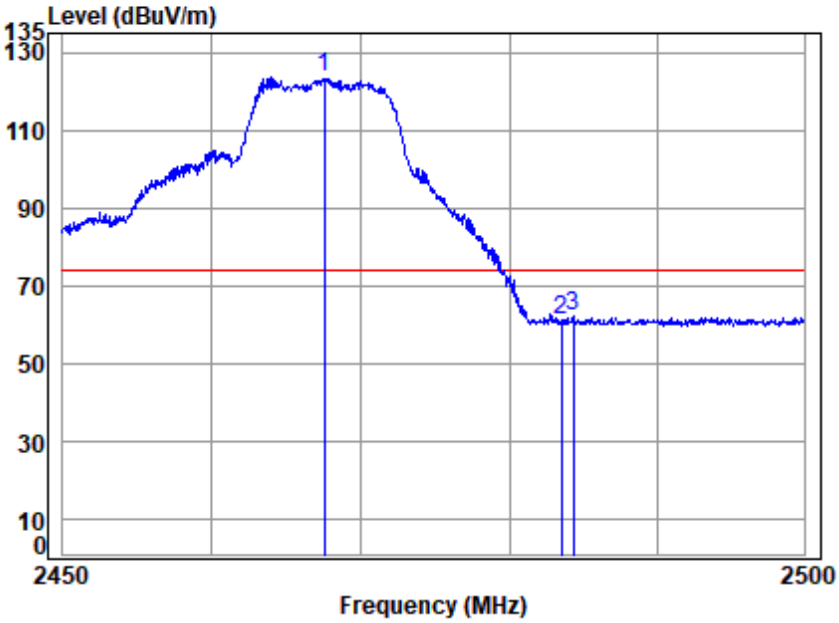
Test Mode: 03; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2467.5 Band edge
: 2.4G SDR 10M

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	p	2467.500	3.72	28.90	0.00	91.02	123.64	74.00	49.64	peak
2		2483.500	3.73	28.90	0.00	28.50	61.13	74.00	-12.87	peak
3		2484.342	3.73	28.90	0.00	29.40	62.03	74.00	-11.97	peak

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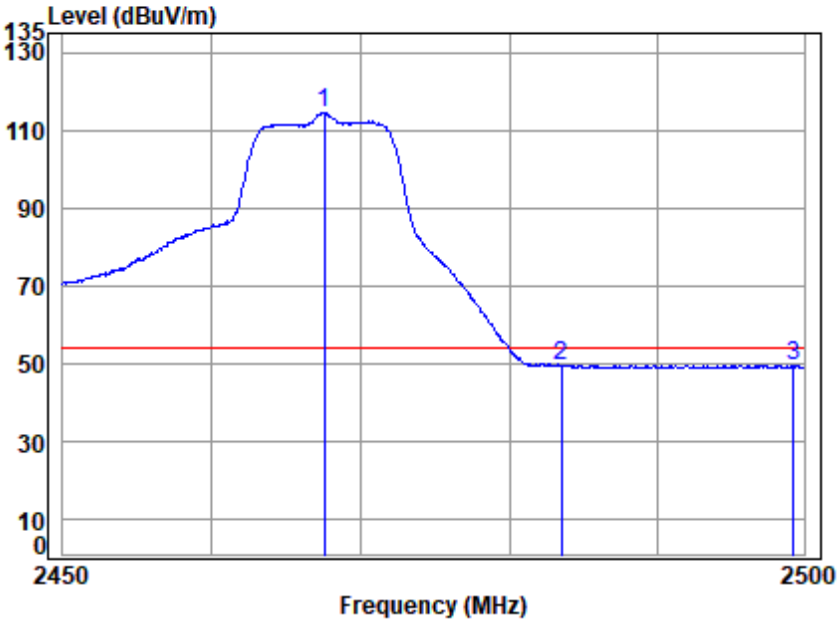

Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2467.5 Band edge
: 2.4G SDR 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2467.500	3.72	28.90	0.00	82.02	114.64	54.00	60.64	Average
2	2483.500	3.73	28.90	0.00	16.63	49.26	54.00	-4.74	Average
3	2499.293	3.74	28.90	0.00	16.79	49.43	54.00	-4.57	Average

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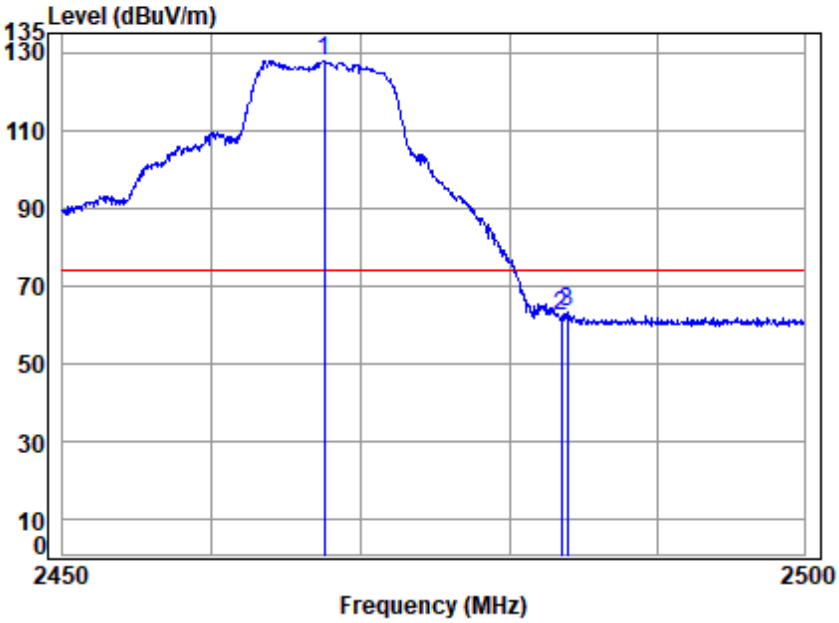
Test Mode: 03; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2467.5 Band edge
: 2.4G SDR 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2467.500	3.72	28.90	0.00	95.43	128.05	74.00	54.05	Peak
2	2483.500	3.73	28.90	0.00	29.39	62.02	74.00	-11.98	Peak
3	2483.940	3.73	28.90	0.00	30.75	63.38	74.00	-10.62	Peak

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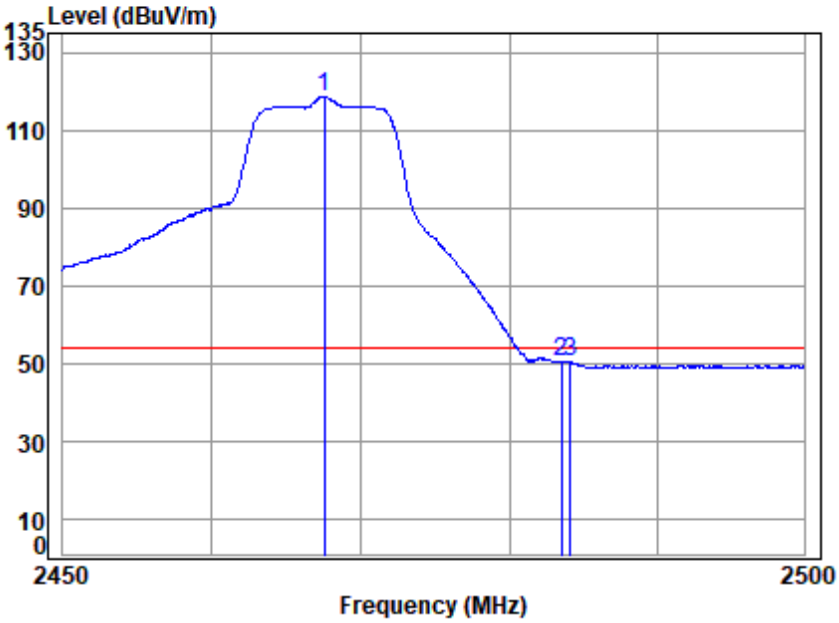
Test Mode: 03; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2467.5 Band edge
: 2.4G SDR 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2467.500	3.72	28.90	0.00	86.11	118.73	54.00	64.73	Average
2	2483.500	3.73	28.90	0.00	17.67	50.30	54.00	-3.70	Average
3	2484.141	3.73	28.90	0.00	17.88	50.51	54.00	-3.49	Average

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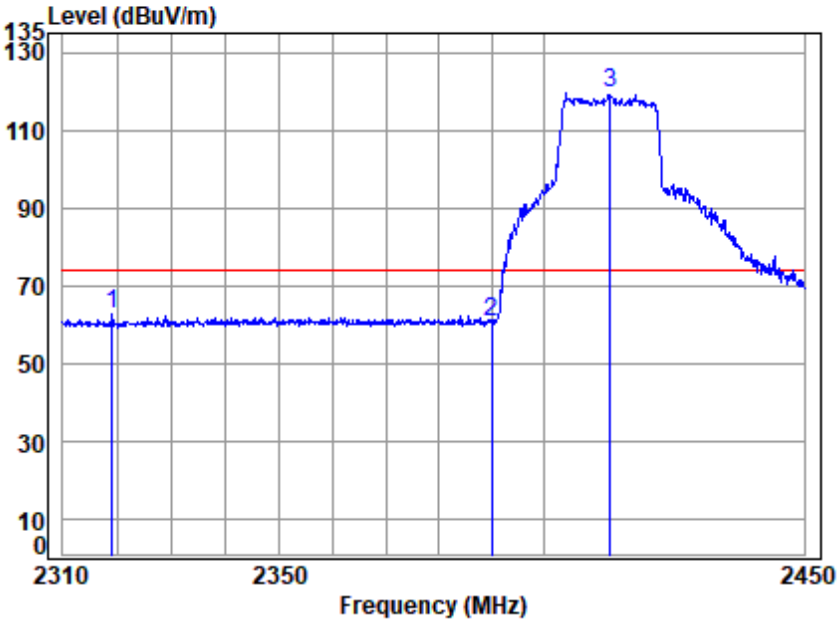
Test Mode: 04; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2412.5 Band edge
: 2.4G SDR 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2319.125	3.61	28.67	0.00	30.13	62.41	74.00	-11.59	peak
2	2390.000	3.66	29.10	0.00	27.59	60.35	74.00	-13.65	peak
3 p	2412.500	3.68	29.05	0.00	86.83	119.56	74.00	45.56	peak

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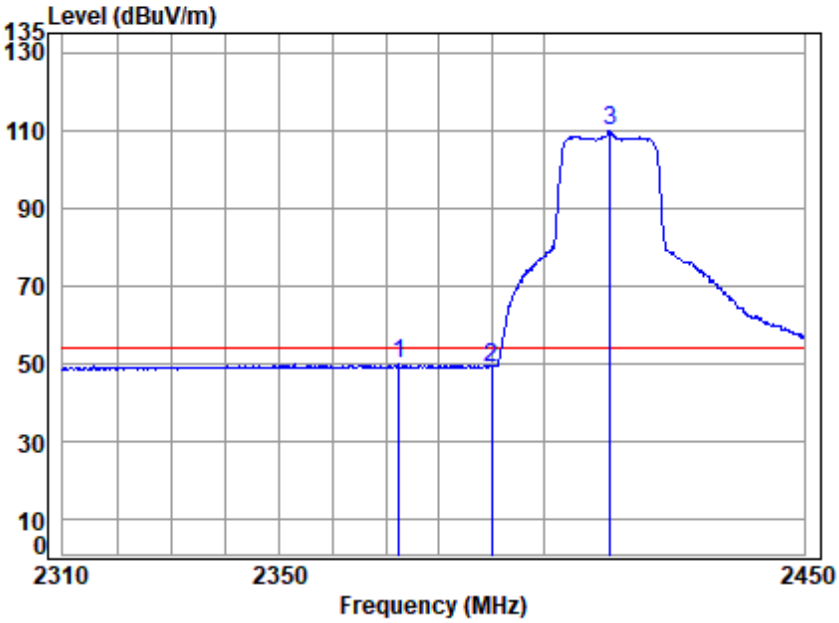
Test Mode: 04; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2412.5 Band edge
: 2.4G SDR 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2372.400	3.65	29.10	0.00	16.79	49.54	54.00	-4.46	Average
2	2390.000	3.66	29.10	0.00	16.26	49.02	54.00	-4.98	Average
3 q	2412.500	3.68	29.05	0.00	77.09	109.82	54.00	55.82	Average

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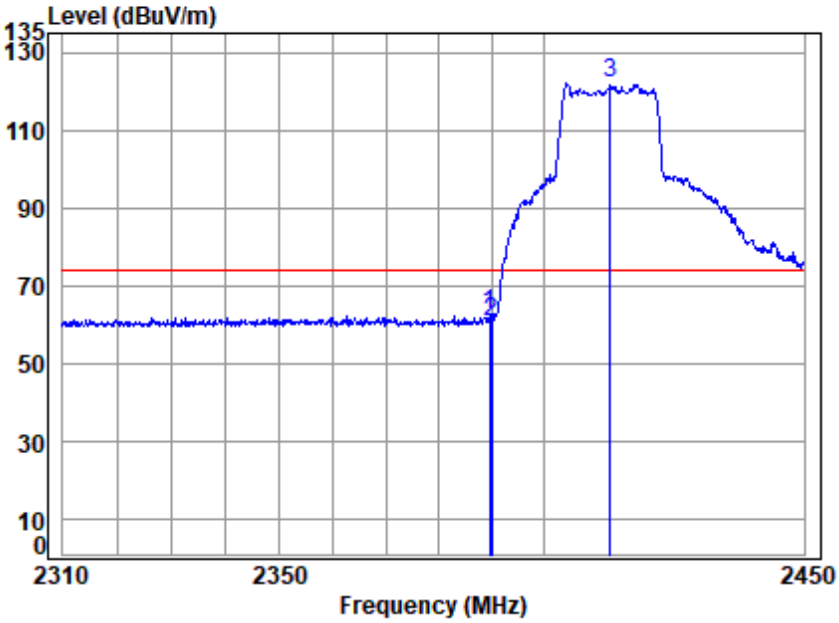
Test Mode: 04; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2412.5 Band edge
: 2.4G SDR 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.633	3.66	29.10	0.00	30.02	62.78	74.00	-11.22	Peak
2	2390.000	3.66	29.10	0.00	27.97	60.73	74.00	-13.27	Peak
3 p	2412.500	3.68	29.05	0.00	89.33	122.06	74.00	48.06	Peak

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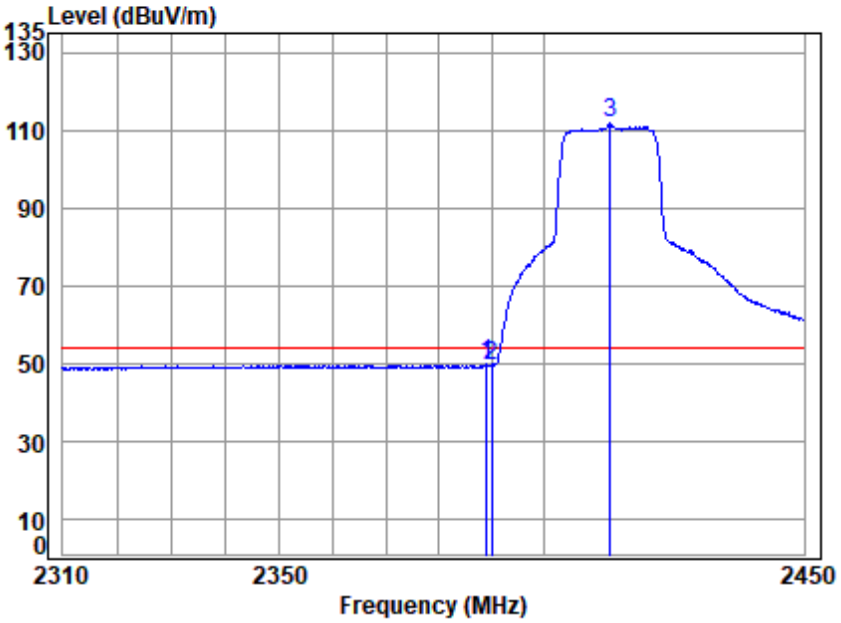
Test Mode: 04; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2412.5 Band edge
: 2.4G SDR 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.070	3.66	29.10	0.00	16.92	49.68	54.00	-4.32	Average
2	2390.000	3.66	29.10	0.00	16.48	49.24	54.00	-4.76	Average
3 q	2412.500	3.68	29.05	0.00	79.35	112.08	54.00	58.08	Average

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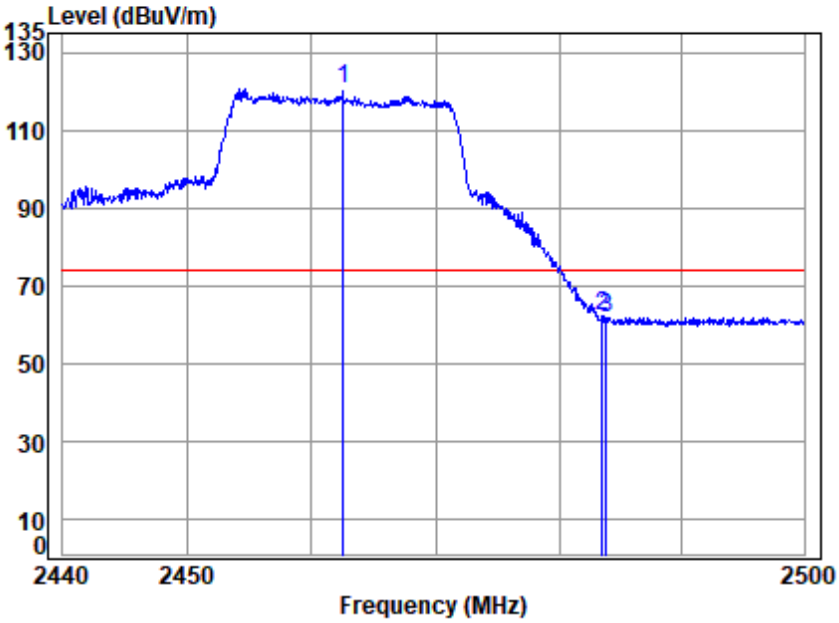
Test Mode: 04; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2462.5 Band edge
: 2.4G SDR 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.500	3.71	28.90	0.00	88.05	120.66	74.00	46.66	peak
2	2483.500	3.73	28.90	0.00	29.38	62.01	74.00	-11.99	peak
3	2483.837	3.73	28.90	0.00	29.15	61.78	74.00	-12.22	peak

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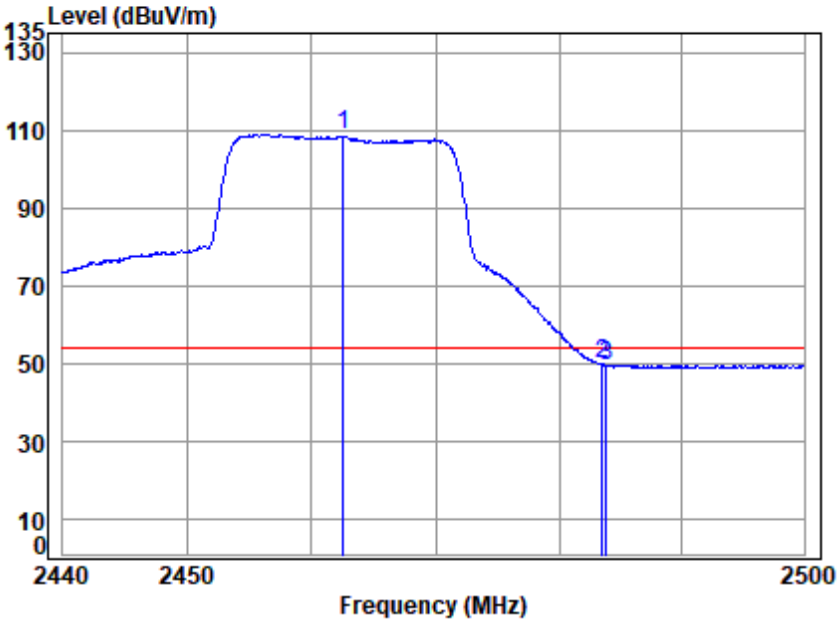
Test Mode: 04; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2462.5 Band edge
: 2.4G SDR 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.500	3.71	28.90	0.00	76.36	108.97	54.00	54.97	Average
2	2483.500	3.73	28.90	0.00	16.96	49.59	54.00	-4.41	Average
3	2483.837	3.73	28.90	0.00	16.74	49.37	54.00	-4.63	Average

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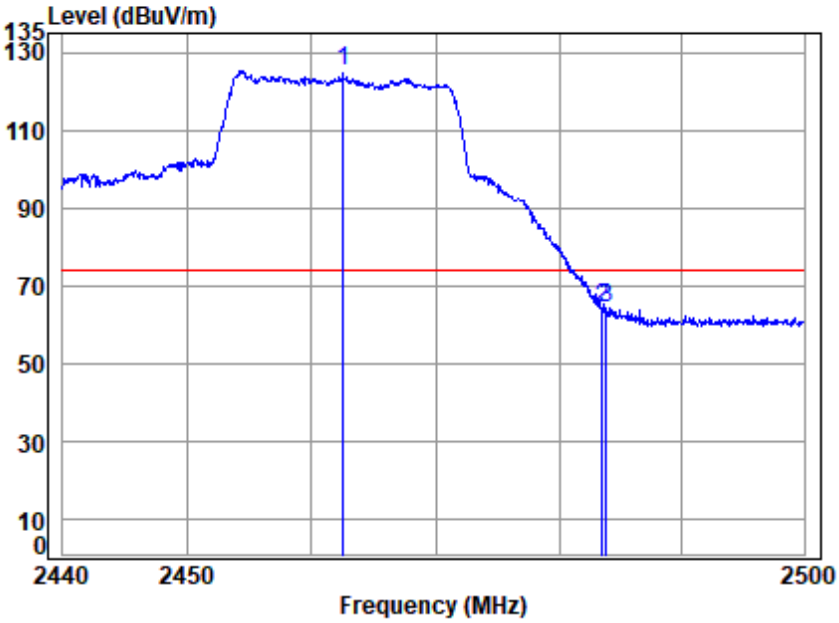
Test Mode: 04; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2462.5 Band edge
: 2.4G SDR 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.500	3.71	28.90	0.00	92.61	125.22	74.00	51.22	Peak
2	2483.500	3.73	28.90	0.00	31.58	64.21	74.00	-9.79	Peak
3	2483.837	3.73	28.90	0.00	31.49	64.12	74.00	-9.88	Peak

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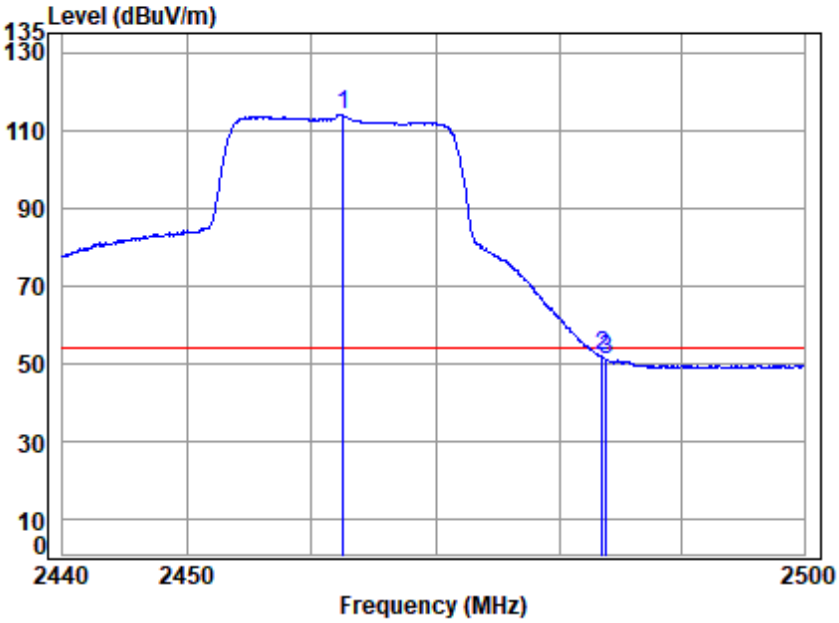
Test Mode: 04; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2462.5 Band edge
: 2.4G SDR 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.500	3.71	28.90	0.00	81.36	113.97	54.00	59.97	Average
2	2483.500	3.73	28.90	0.00	19.20	51.83	54.00	-2.17	Average
3	2483.837	3.73	28.90	0.00	18.27	50.90	54.00	-3.10	Average

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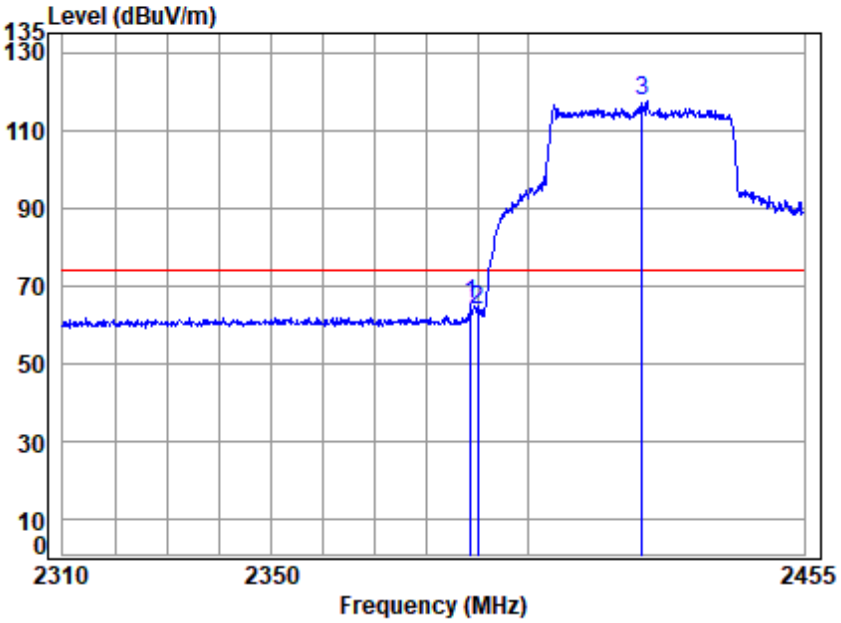
Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2422.5 Band edge
: 2.4G SDR 40M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.802	3.66	29.10	0.00	32.53	65.29	74.00	-8.71	peak
2	2390.000	3.66	29.10	0.00	30.76	63.52	74.00	-10.48	peak
3 p	2422.500	3.68	29.01	0.00	84.65	117.34	74.00	43.34	peak

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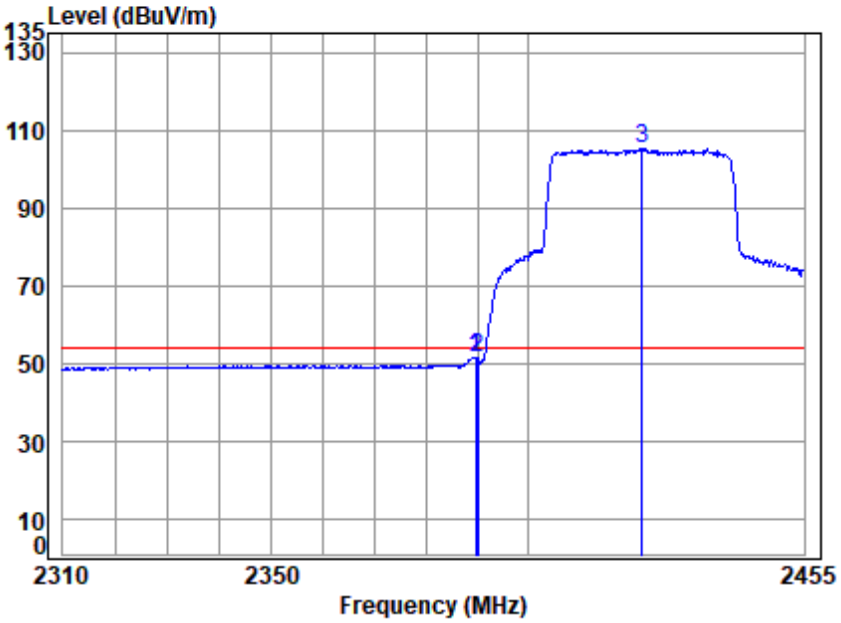
Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2422.5 Band edge
: 2.4G SDR 40M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.675	3.66	29.10	0.00	18.80	51.56	54.00	-2.44	Average
2	2390.000	3.66	29.10	0.00	18.35	51.11	54.00	-2.89	Average
3 q	2422.500	3.68	29.01	0.00	72.75	105.44	54.00	51.44	Average

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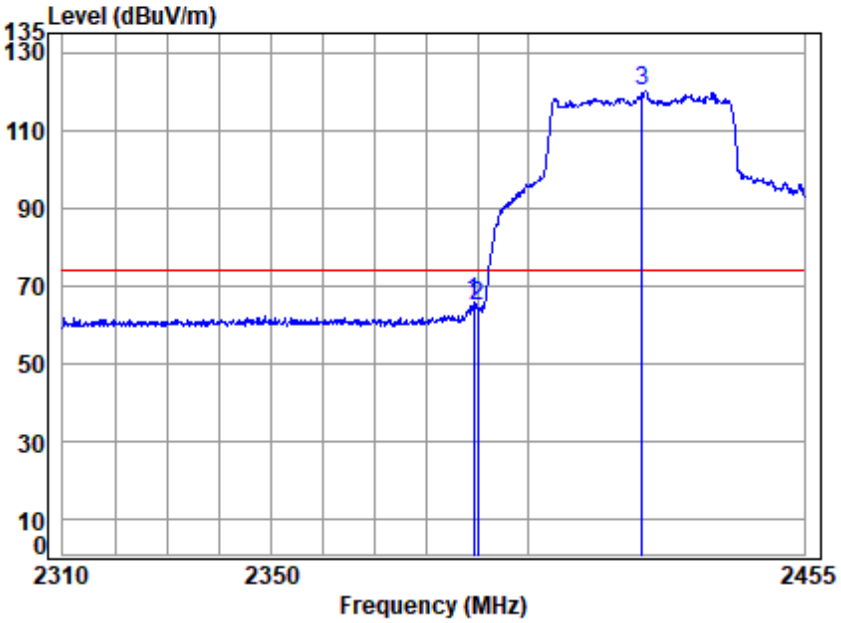
Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2422.5 Band edge
: 2.4G SDR 40M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.238	3.66	29.10	0.00	32.87	65.63	74.00	-8.37	Peak
2	2390.000	3.66	29.10	0.00	31.76	64.52	74.00	-9.48	Peak
3 p	2422.500	3.68	29.01	0.00	87.32	120.01	74.00	46.01	Peak

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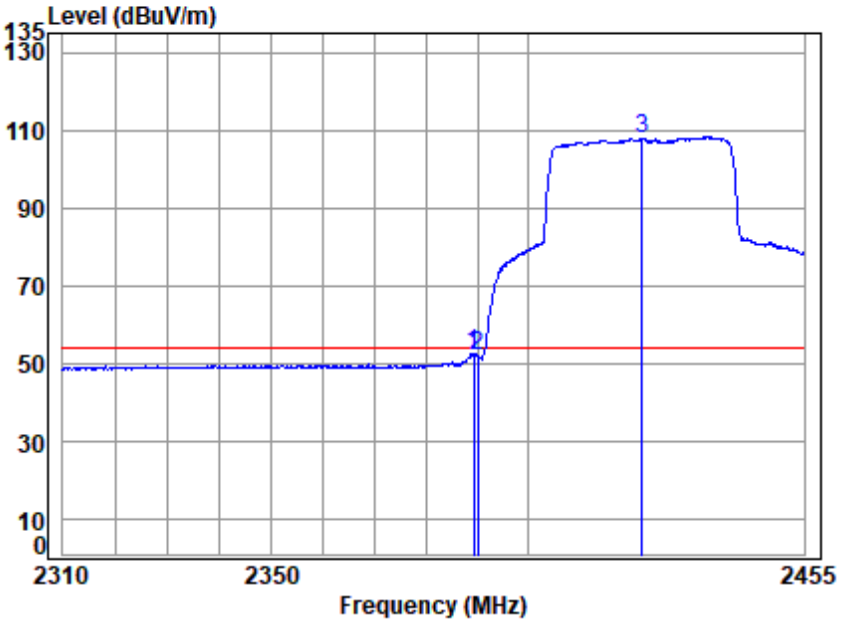
Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2422.5 Band edge
: 2.4G SDR 40M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.384	3.66	29.10	0.00	19.52	52.28	54.00	-1.72	Average
2	2390.000	3.66	29.10	0.00	19.24	52.00	54.00	-2.00	Average
3 q	2422.500	3.68	29.01	0.00	75.16	107.85	54.00	53.85	Average

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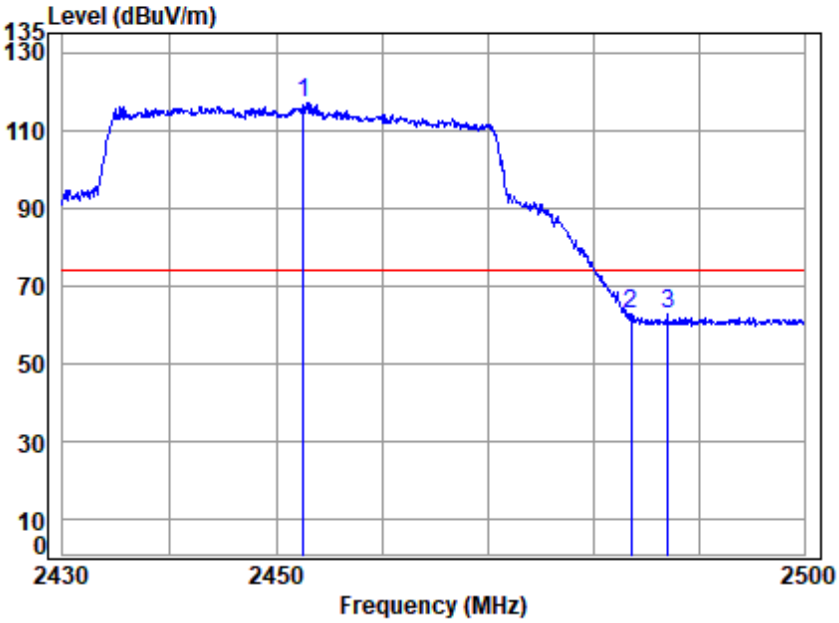
Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2452.5 Band edge
: 2.4G SDR 40M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2452.500	3.71	28.90	0.00	84.31	116.92	74.00	42.92	peak
2	2483.500	3.73	28.90	0.00	29.77	62.40	74.00	-11.60	peak
3	2486.970	3.73	28.90	0.00	29.77	62.40	74.00	-11.60	peak

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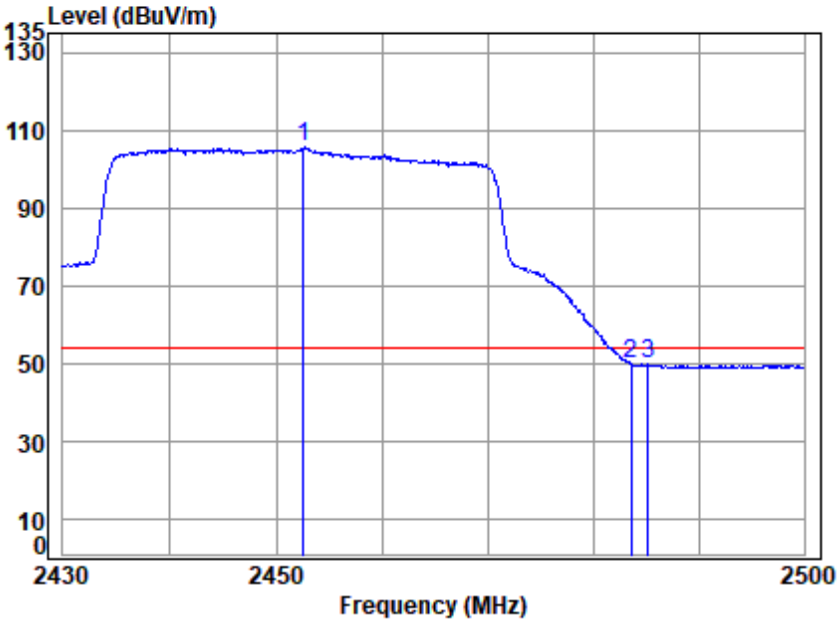
Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2452.5 Band edge
: 2.4G SDR 40M

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	2452.500	3.71	28.90	0.00	72.91	105.52	54.00	51.52	Average
2		2483.500	3.73	28.90	0.00	17.23	49.86	54.00	-4.14	Average
3		2485.135	3.73	28.90	0.00	16.97	49.60	54.00	-4.40	Average

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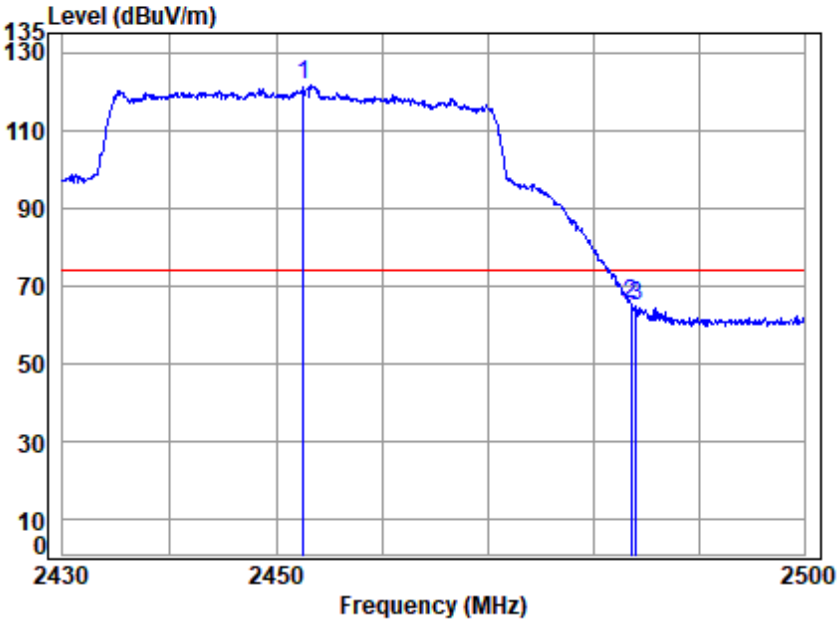
Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2452.5 Band edge
: 2.4G SDR 40M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2452.500	3.71	28.90	0.00	89.30	121.91	74.00	47.91	Peak
2	2483.500	3.73	28.90	0.00	32.47	65.10	74.00	-8.90	Peak
3	2483.935	3.73	28.90	0.00	31.90	64.53	74.00	-9.47	Peak

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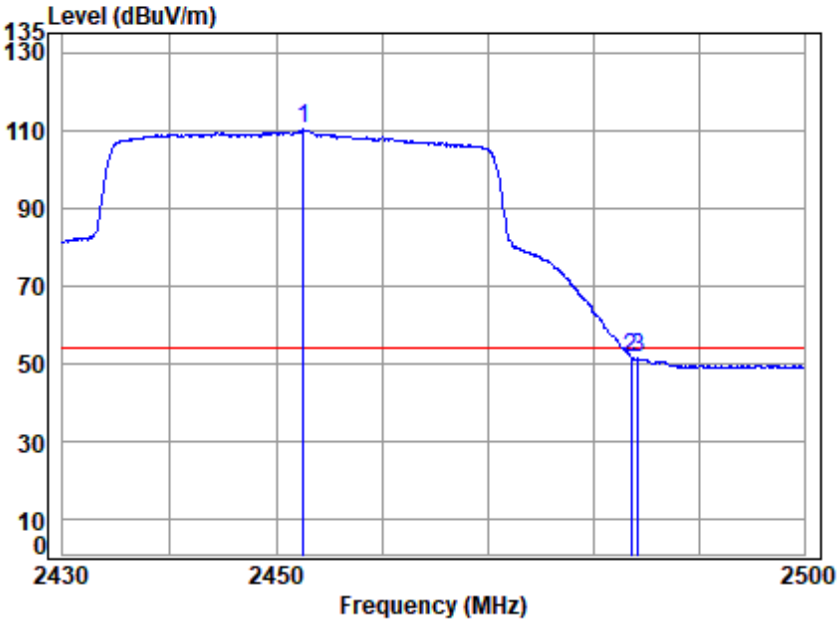
Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2452.5 Band edge
: 2.4G SDR 40M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2452.500	3.71	28.90	0.00	77.57	110.18	54.00	56.18	Average
2	2483.500	3.73	28.90	0.00	18.80	51.43	54.00	-2.57	Average
3	2484.147	3.73	28.90	0.00	18.50	51.13	54.00	-2.87	Average

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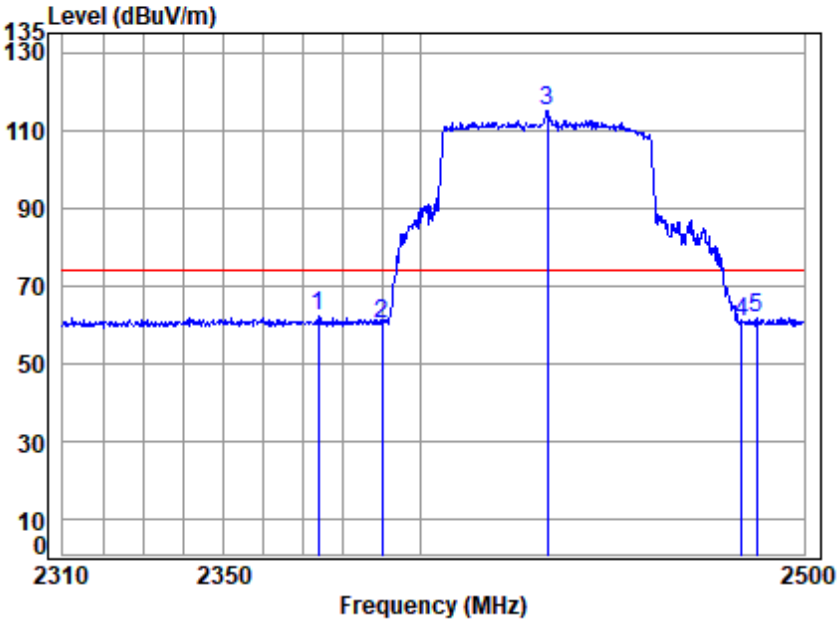
Test Mode: 06; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2432.5 Band edge
: 2.4G SDR 60M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2373.860	3.65	29.10	0.00	29.12	61.87	74.00	-12.13	peak
2	2390.000	3.66	29.10	0.00	27.13	59.89	74.00	-14.11	peak
3 p	2432.500	3.69	28.97	0.00	82.39	115.05	74.00	41.05	peak
4	2483.500	3.73	28.90	0.00	27.87	60.50	74.00	-13.50	peak
5	2487.385	3.73	28.90	0.00	29.06	61.69	74.00	-12.31	peak

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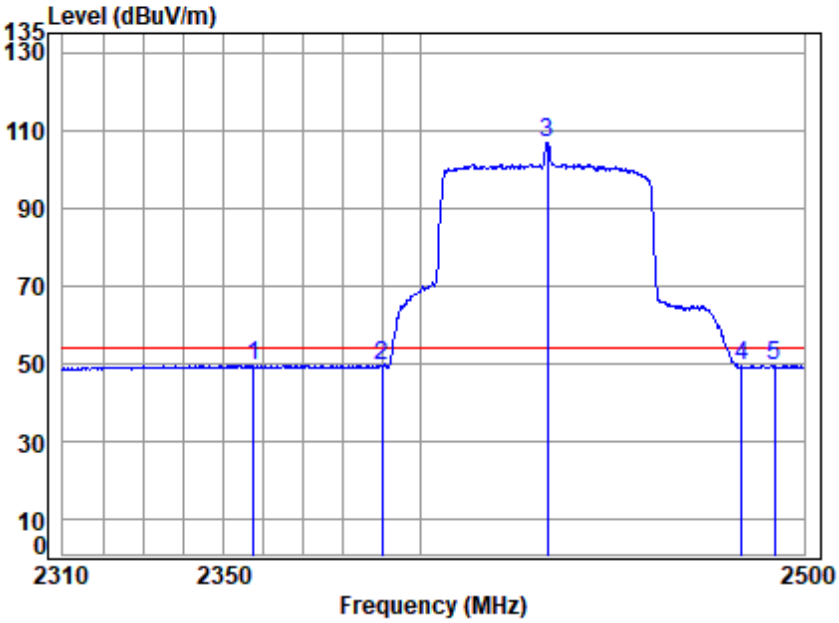
Test Mode: 06; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2432.5 Band edge
: 2.4G SDR 60M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2357.406	3.64	29.10	0.00	16.72	49.46	54.00	-4.54	Average
2	2390.000	3.66	29.10	0.00	16.32	49.08	54.00	-4.92	Average
3 q	2432.500	3.69	28.97	0.00	74.23	106.89	54.00	52.89	Average
4	2483.500	3.73	28.90	0.00	16.42	49.05	54.00	-4.95	Average
5	2492.108	3.73	28.90	0.00	16.59	49.22	54.00	-4.78	Average

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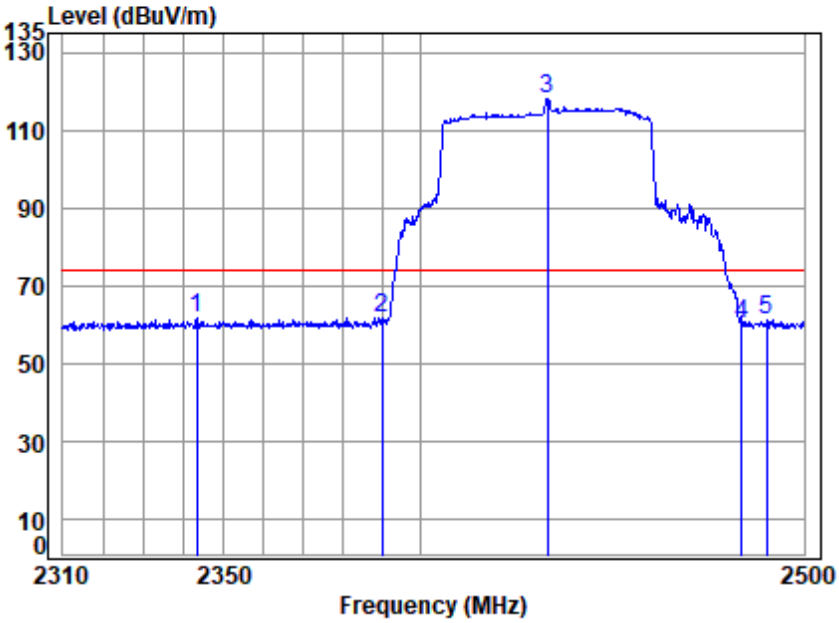
Test Mode: 06; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2432.5 Band edge
: 2.4G SDR 60M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2343.286	3.63	29.01	0.00	29.20	61.84	74.00	-12.16	peak
2	2390.000	3.66	29.10	0.00	28.90	61.66	74.00	-12.34	peak
3 p	2432.500	3.69	28.97	0.00	85.45	118.11	74.00	44.11	Peak
4	2483.500	3.73	28.90	0.00	27.39	60.02	74.00	-13.98	Peak
5	2490.139	3.73	28.90	0.00	28.42	61.05	74.00	-12.95	Peak

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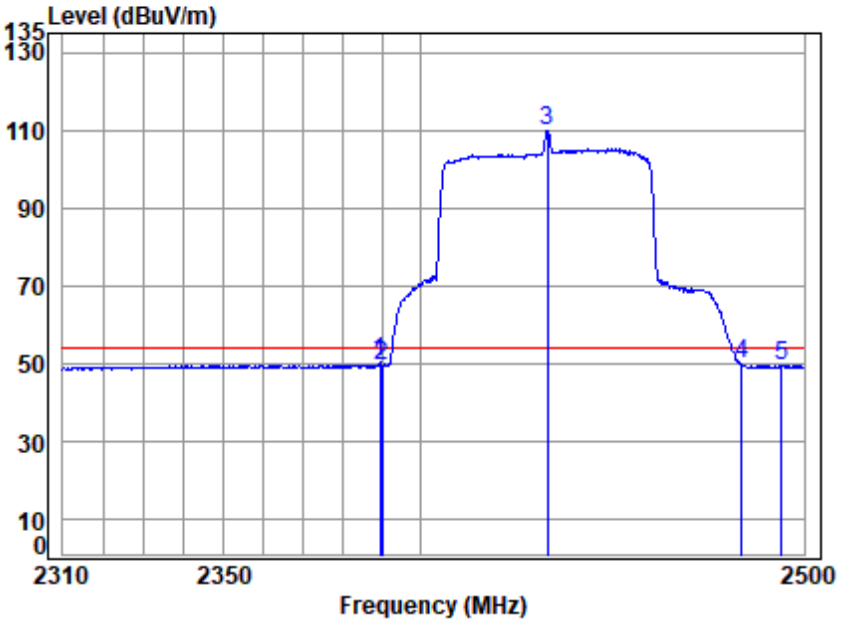
Test Mode: 06; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2432.5 Band edge
: 2.4G SDR 60M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.485	3.66	29.10	0.00	17.57	50.33	54.00	-3.67	Average
2	2390.000	3.66	29.10	0.00	16.74	49.50	54.00	-4.50	Average
3 q	2432.500	3.69	28.97	0.00	77.27	109.93	54.00	55.93	Average
4	2483.500	3.73	28.90	0.00	16.98	49.61	54.00	-4.39	Average
5	2494.079	3.74	28.90	0.00	16.84	49.48	54.00	-4.52	Average

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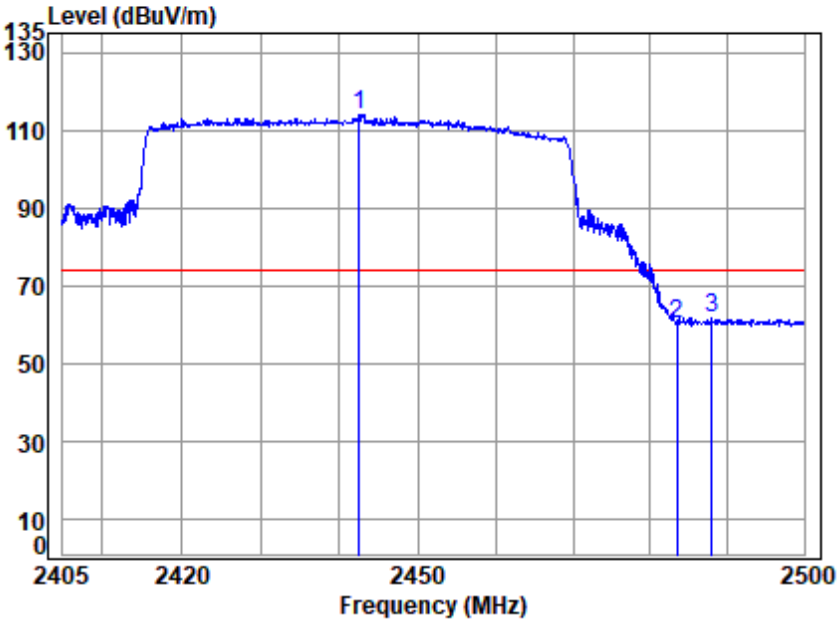
Test Mode: 06; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2442.5 Band edge
: 2.4G SDR 60M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2442.500	3.70	28.93	0.00	81.57	114.20	74.00	40.20	peak
2	2483.500	3.73	28.90	0.00	27.68	60.31	74.00	-13.69	peak
3	2487.923	3.73	28.90	0.00	28.83	61.46	74.00	-12.54	peak

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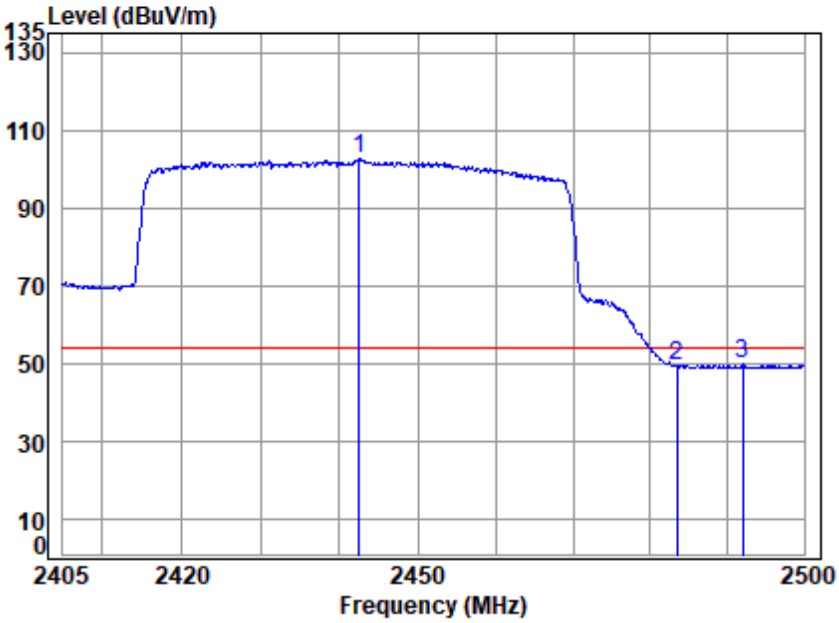
Test Mode: 06; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2442.5 Band edge
: 2.4G SDR 60M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2442.500	3.70	28.93	0.00	70.02	102.65	54.00	48.65	Average
2	2483.500	3.73	28.90	0.00	16.49	49.12	54.00	-4.88	Average
3	2491.974	3.73	28.90	0.00	16.92	49.55	54.00	-4.45	Average

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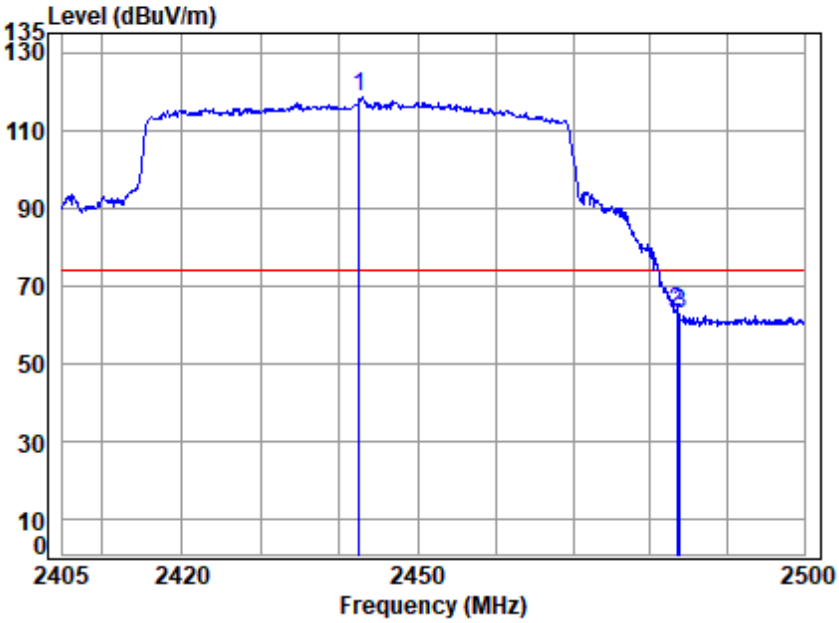
Test Mode: 06; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2442.5 Band edge
: 2.4G SDR 60M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2442.500	3.70	28.93	0.00	85.83	118.46	74.00	44.46	Peak
2	2483.500	3.73	28.90	0.00	30.64	63.27	74.00	-10.73	Peak
3	2483.782	3.73	28.90	0.00	30.20	62.83	74.00	-11.17	Peak

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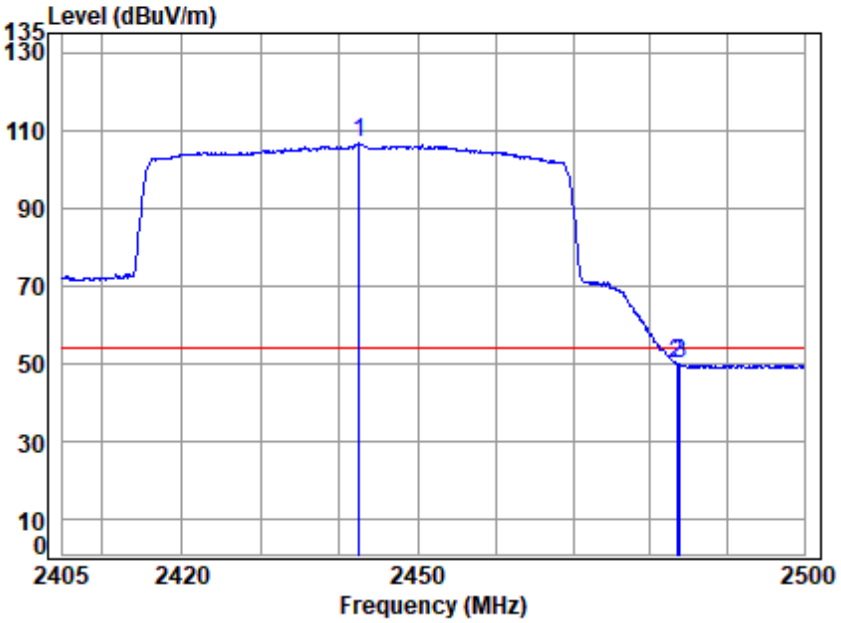
Test Mode: 06; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2442.5 Band edge
: 2.4G SDR 60M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2442.500	3.70	28.93	0.00	74.07	106.70	54.00	52.70	Average
2	2483.500	3.73	28.90	0.00	17.16	49.79	54.00	-4.21	Average
3	2483.782	3.73	28.90	0.00	17.03	49.66	54.00	-4.34	Average

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7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance: 10m

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
960-1000	500	3

7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.6 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Pre-scan	01	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Pre-scan	02	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Pre-scan	03	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	04	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	05	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	06	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode

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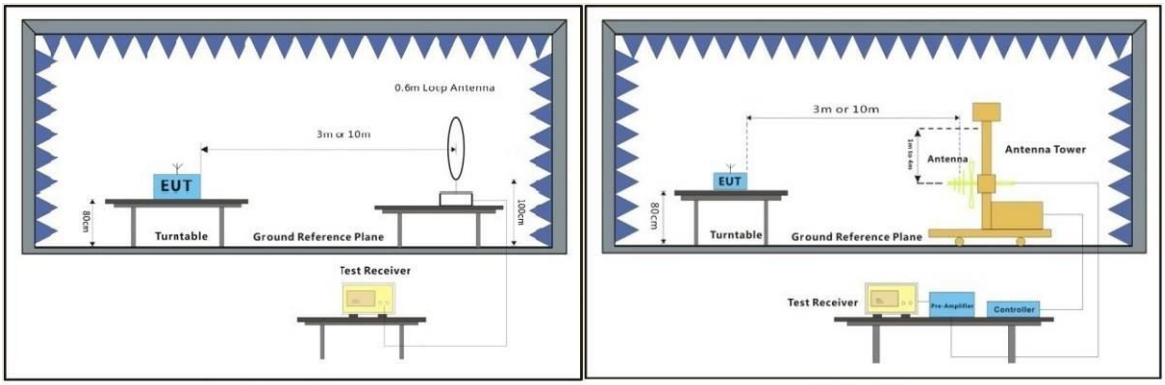
7.2.3 Test Setup Diagram



Below 30MHz 30MHz-1GHz

7.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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

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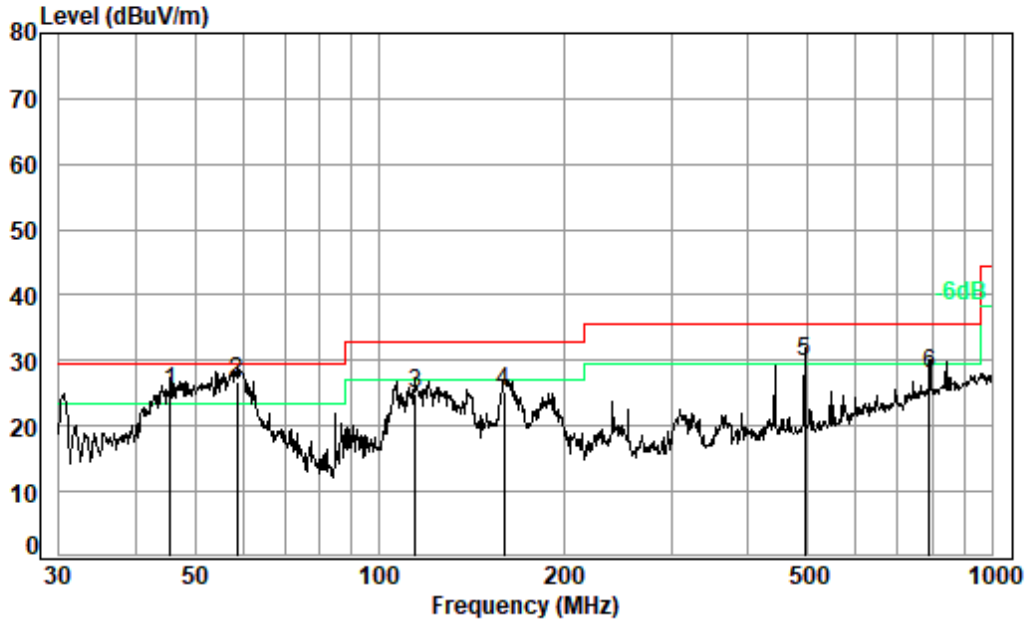
Test Mode: 00; Polarity: Horizontal



Condition: 10m HORIZONTAL
Job No. : 04795AT
Test Mode: 00

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	45.535	39.68	17.64	0.51	32.50	25.33	29.50	-4.17	QP
2 pp	58.613	41.14	17.51	0.57	32.47	26.75	29.50	-2.75	QP
3	114.515	41.63	15.03	0.81	32.50	24.97	33.00	-8.03	QP
4	159.784	38.90	17.79	0.99	32.50	25.18	33.00	-7.82	QP
5	494.199	38.82	21.83	1.84	32.68	29.81	35.60	-5.79	QP
6	790.619	31.28	26.57	2.47	32.24	28.08	35.60	-7.52	QP

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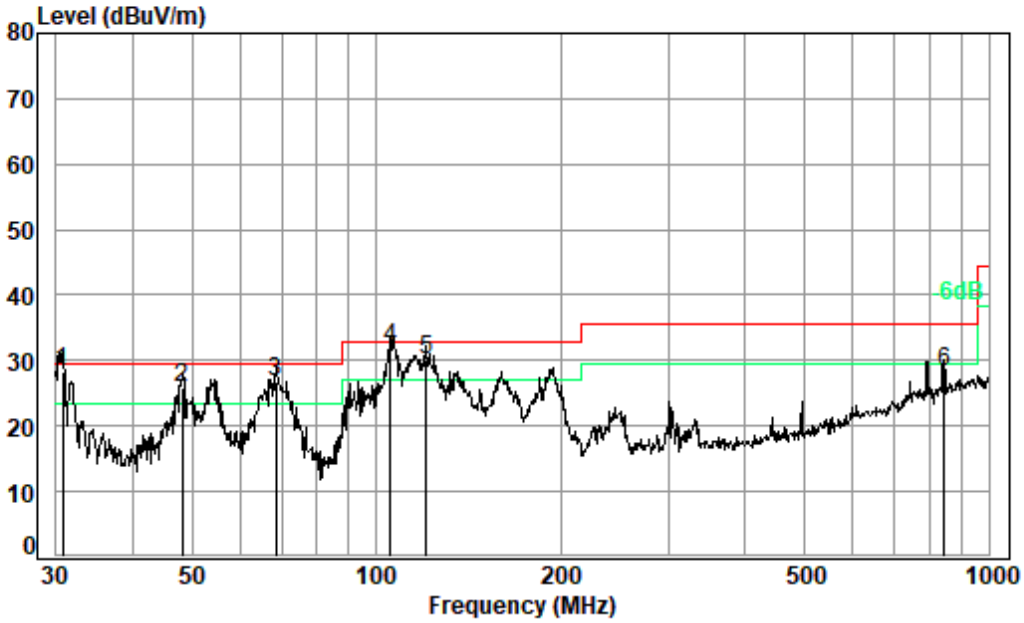
Test Mode: 00; Polarity: Vertical



Condition: 10m VERTICAL
Job No. : 04795AT
Test Mode: 00

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.745	44.73	15.62	0.42	32.50	28.27	29.50	-1.23	QP
2	48.163	39.83	17.97	0.53	32.50	25.83	29.50	-3.67	QP
3	68.631	42.48	16.17	0.62	32.44	26.83	29.50	-2.67	QP
4 pp	105.642	49.61	14.02	0.77	32.50	31.90	33.00	-1.10	QP
5	120.699	46.33	15.49	0.83	32.50	30.15	33.00	-2.85	QP
6	845.088	30.92	26.80	2.56	32.02	28.26	35.60	-7.34	QP

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7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.6
Measurement Distance: 3m

Limit:

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

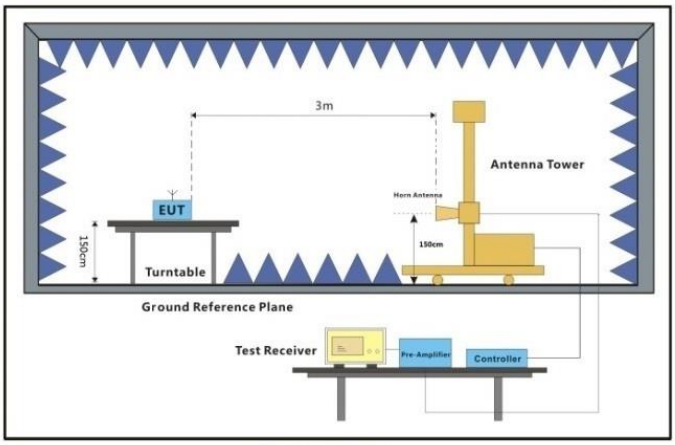
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Pre-scan	01	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Pre-scan	02	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Pre-scan	03	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	04	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	05	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	06	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode

7.3.3 Test Setup Diagram



Above 1GHz

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7.3.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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

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

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

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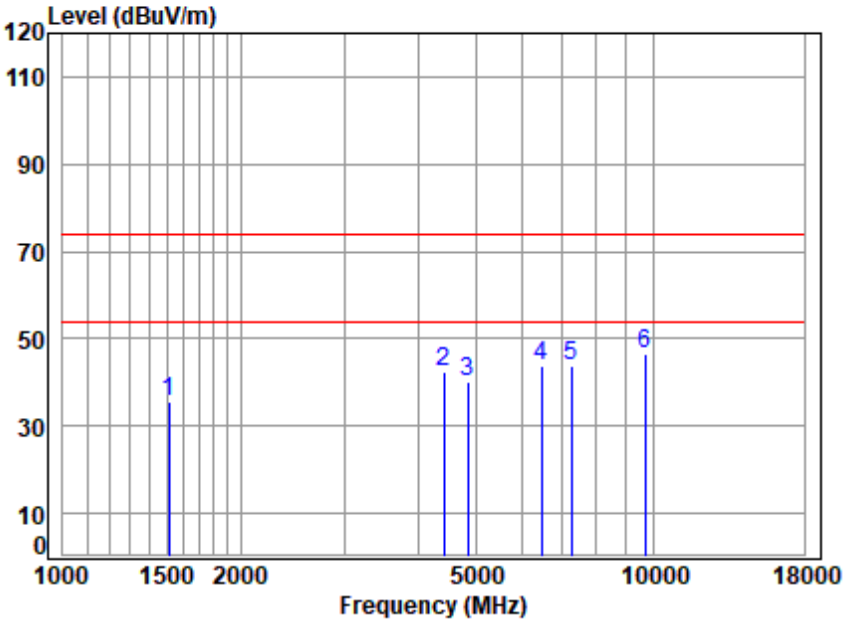
Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2422.5 RSE TX
: 2.4G SDR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1511.833	6.20	26.85	54.78	57.34	35.61	74.00	-38.39	peak
2	4417.841	7.34	34.59	54.26	54.66	42.33	74.00	-31.67	peak
3	4845.000	7.71	34.48	54.21	52.20	40.18	74.00	-33.82	peak
4	6470.026	8.94	35.54	53.15	52.50	43.83	74.00	-30.17	peak
5	7267.500	8.55	35.70	53.17	52.78	43.86	74.00	-30.14	peak
6 p	9690.000	10.56	37.50	53.32	51.79	46.53	74.00	-27.47	peak

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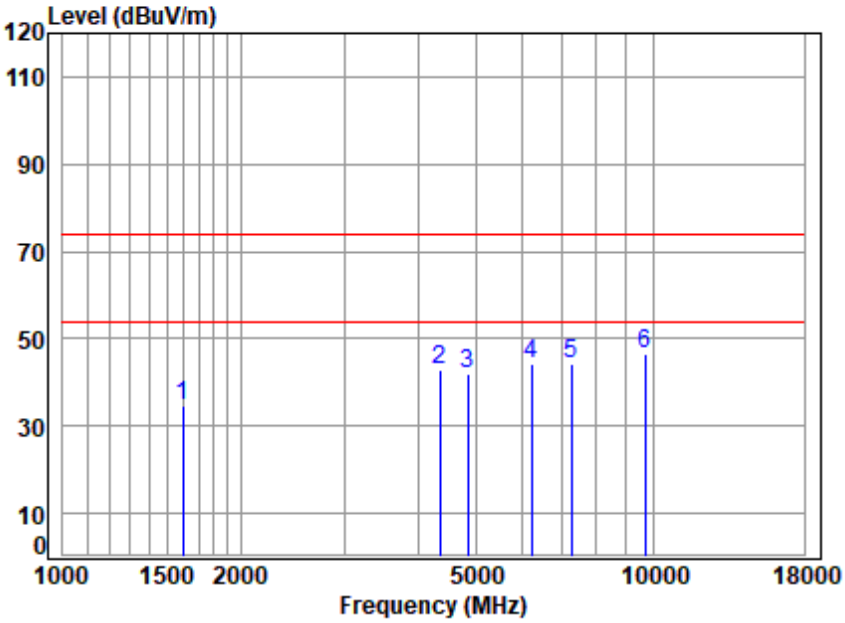
Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2422.5 RSE TX
: 2.4G SDR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	6.22	26.81	54.80	56.59	34.82	74.00	-39.18	peak
2	4354.454	7.34	34.44	54.26	55.33	42.85	74.00	-31.15	peak
3	4845.000	7.71	34.48	54.21	54.10	42.08	74.00	-31.92	peak
4	6213.441	8.80	34.75	53.12	53.71	44.14	74.00	-29.86	peak
5	7267.500	8.55	35.70	53.17	53.36	44.44	74.00	-29.56	peak
6 p	9690.000	10.56	37.50	53.32	51.83	46.57	74.00	-27.43	peak

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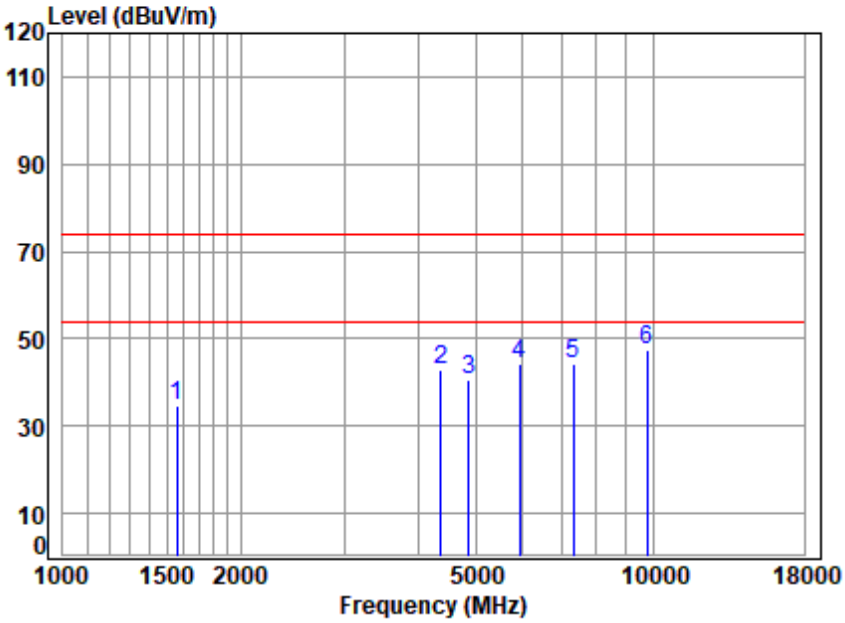
Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2437.5 RSE TX
: 2.4G SDR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	6.21	26.96	54.79	56.27	34.65	74.00	-39.35	peak
2	4367.058	7.34	34.54	54.26	55.27	42.89	74.00	-31.11	peak
3	4875.000	7.75	34.60	54.21	52.58	40.72	74.00	-33.28	peak
4	5932.638	8.65	34.67	53.17	54.19	44.34	74.00	-29.66	peak
5	7312.500	8.52	35.70	53.17	53.39	44.44	74.00	-29.56	peak
6 p	9750.000	10.56	37.40	53.30	52.58	47.24	74.00	-26.76	peak

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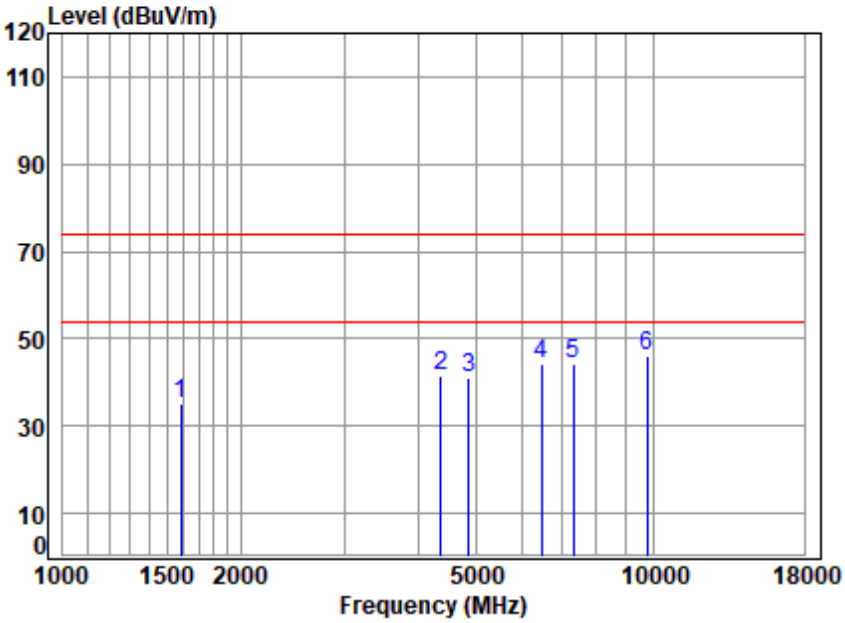
Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2437.5 RSE TX
: 2.4G SDR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.975	6.22	26.85	54.80	56.77	35.04	74.00	-38.96	peak
2	4367.058	7.34	34.54	54.26	54.06	41.68	74.00	-32.32	peak
3	4875.000	7.75	34.60	54.21	52.78	40.92	74.00	-33.08	peak
4	6470.026	8.94	35.54	53.15	52.97	44.30	74.00	-29.70	peak
5	7312.500	8.52	35.70	53.17	53.20	44.25	74.00	-29.75	peak
6 p	9750.000	10.56	37.40	53.30	51.56	46.22	74.00	-27.78	peak

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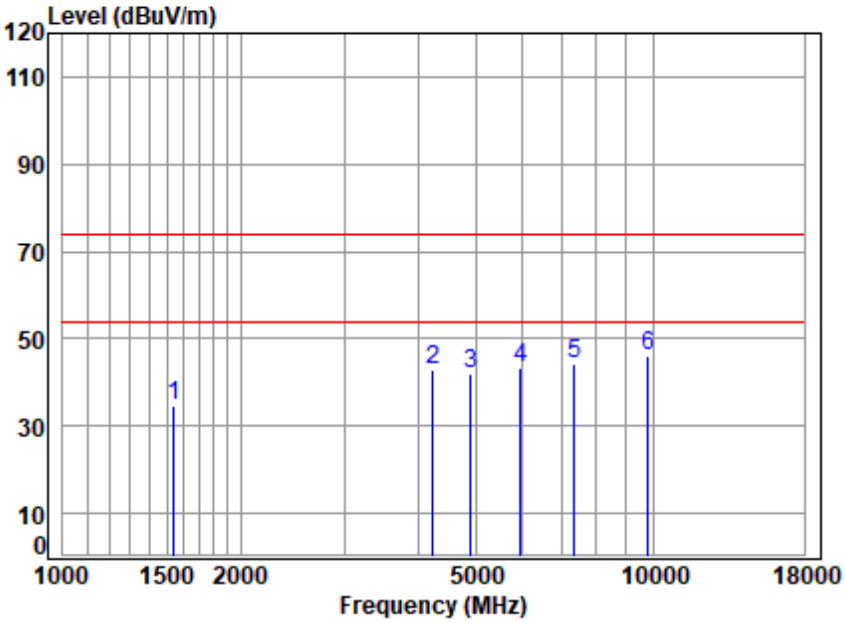
Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04795AT
Mode : 2452.5 RSE TX
: 2.4G SDR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1542.733	6.21	26.97	54.79	56.40	34.79	74.00	-39.21	peak
2	4230.396	7.32	33.80	54.27	56.02	42.87	74.00	-31.13	peak
3	4905.000	7.78	34.69	54.21	53.68	41.94	74.00	-32.06	peak
4	5967.033	8.66	34.77	53.13	53.21	43.51	74.00	-30.49	peak
5	7357.500	8.49	35.72	53.16	53.17	44.22	74.00	-29.78	peak
6 p	9810.000	10.57	37.28	53.27	51.30	45.88	74.00	-28.12	peak

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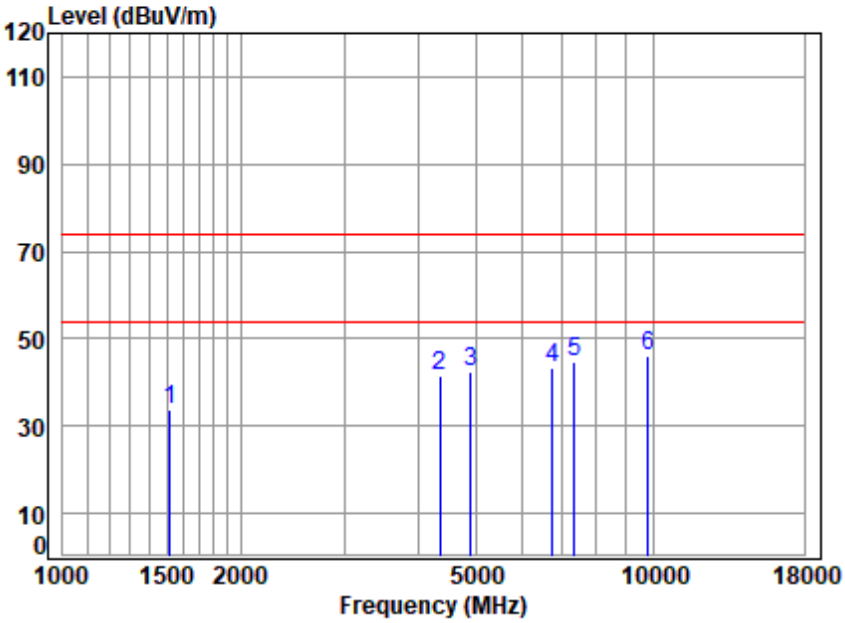
Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 04795AT
Mode : 2452.5 RSE TX
: 2.4G SDR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1516.210	6.20	26.86	54.78	55.38	33.66	74.00	-40.34	peak
2	4354.454	7.34	34.44	54.26	54.04	41.56	74.00	-32.44	peak
3	4905.000	7.78	34.69	54.21	54.11	42.37	74.00	-31.63	peak
4	6756.708	8.84	35.21	53.18	52.67	43.54	74.00	-30.46	peak
5	7357.500	8.49	35.72	53.16	53.44	44.49	74.00	-29.51	peak
6 p	9810.000	10.57	37.28	53.27	51.45	46.03	74.00	-27.97	peak

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7.4 Conducted Peak Output Power

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

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 54.3 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	01	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	02	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	03	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	04	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	05	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	06	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode

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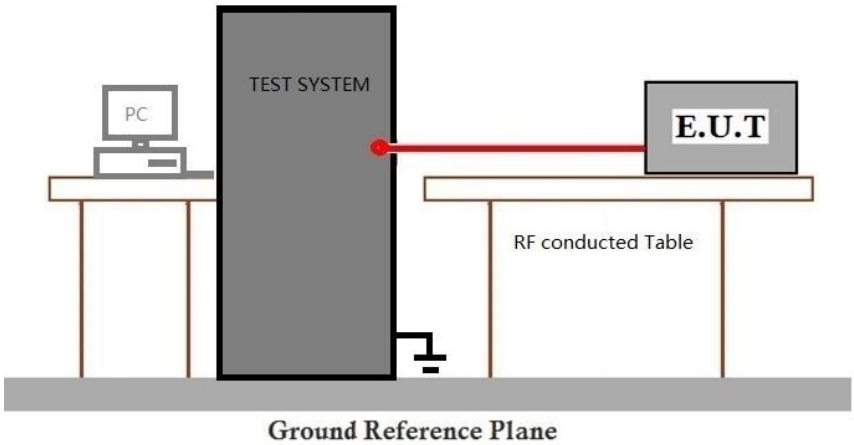
7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

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7.5 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:
≥500 kHz

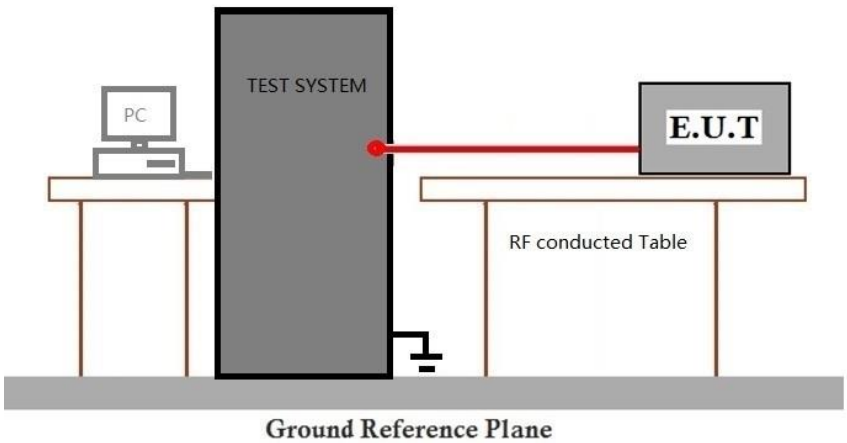
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 22.6 °C Humidity: 54.3 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	01	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	02	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	03	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	04	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	05	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	06	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.6 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:
≤8dBm in any 3 kHz band during any time interval of continuous transmission

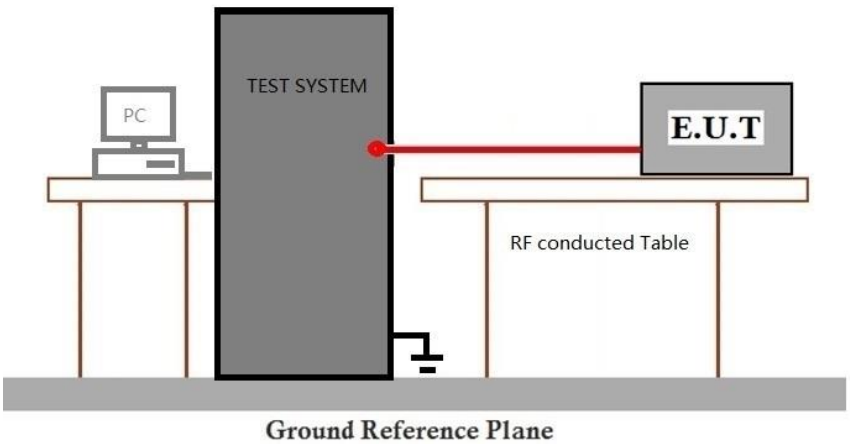
7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 22.6 °C Humidity: 54.3 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	01	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	02	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	03	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	04	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	05	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	06	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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7.7 Conducted Band Edges Measurement

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

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 54.3 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	01	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	02	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	03	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	04	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	05	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	06	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode

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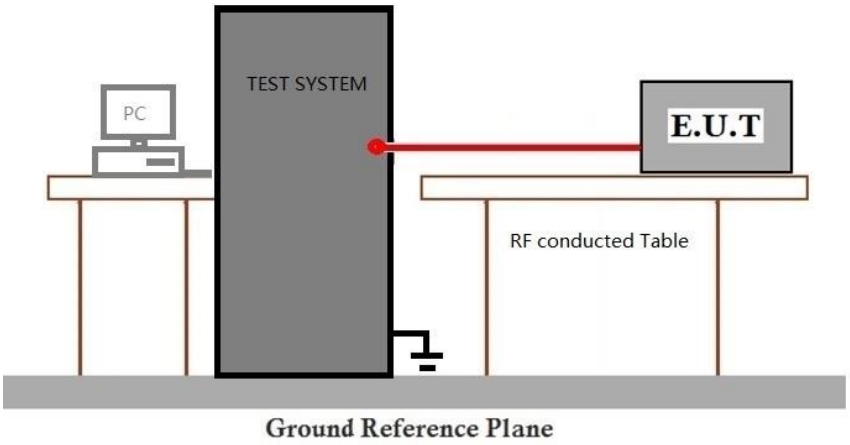
7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Conducted Spurious Emissions

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

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 54.3 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	01	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	02	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	03	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	04	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	05	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	06	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode

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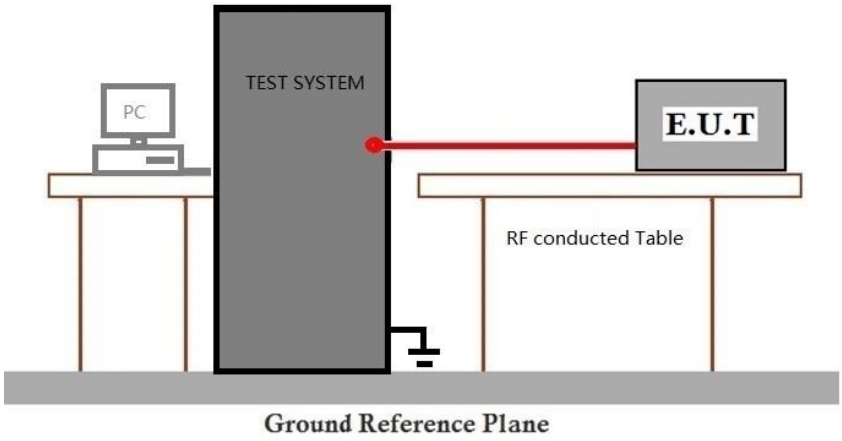
7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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8 Test Setup Photo

Refer to Setup Photo for SZCR2412004795AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2412004795AT

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10 Appendix

Note: EUT support MIMO combinations are ANT0&ANT1, ANT0&ANT3, ANT2&ANT1, ANT2&ANT3, pre-scans are performed for all combinations, ANT0&ANT1 and ANT2&ANT3 are the worse mode, only the worse mode test data recorded in this report.

For ANT0&ANT1:
1. Duty Cycle

1.1 Test Result

1.1.1 Ant0

Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1.4M	MIMO	2403.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2469.12	100.000	100.000	100.00	0.00	0.00
3M	MIMO	2405.5	100.000	100.000	100.00	0.00	0.00
		2438.5	100.000	100.000	100.00	0.00	0.00
		2468.2	100.000	100.000	100.00	0.00	0.00
5M	MIMO	2404.5	100.000	100.000	100.00	0.00	0.00
		2439.5	100.000	100.000	100.00	0.00	0.00
		2469.5	100.000	100.000	100.00	0.00	0.00
10M	MIMO	2407.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2467.5	100.000	100.000	100.00	0.00	0.00
20M	MIMO	2412.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2462.5	100.000	100.000	100.00	0.00	0.00
40M	MIMO	2422.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2452.5	100.000	100.000	100.00	0.00	0.00
60M	MIMO	2432.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2442.5	100.000	100.000	100.00	0.00	0.00

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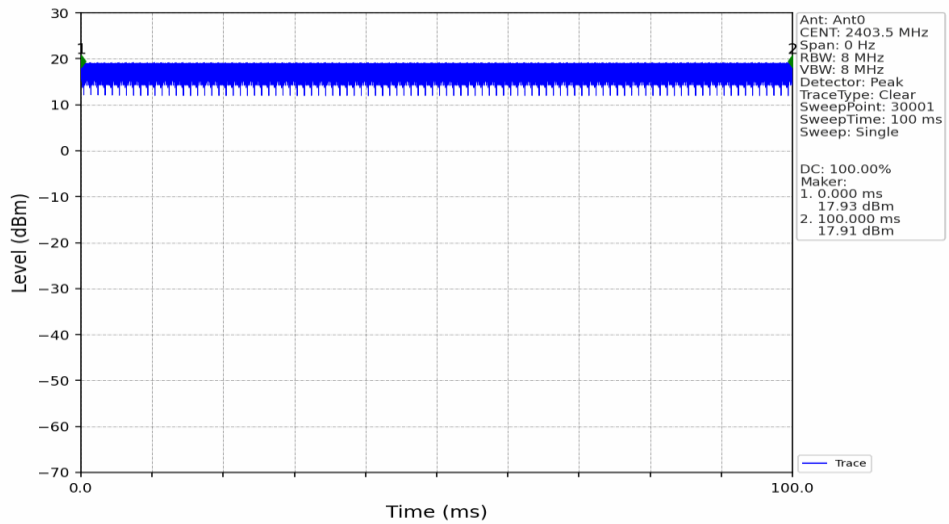
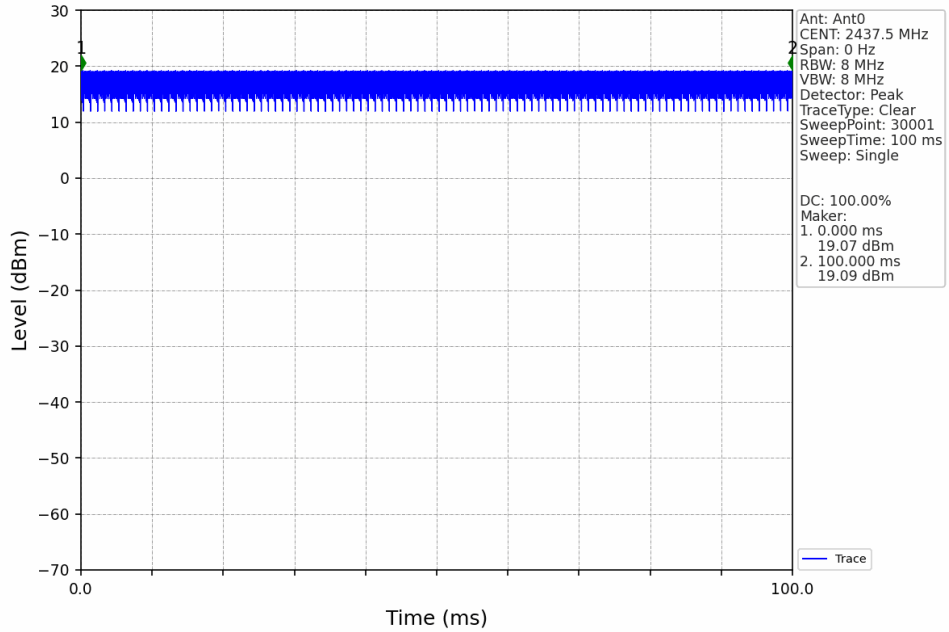
1.2 Test Graph

1.2.1 Ant0

1.4M_LCH_2403.5MHz_Ant0_NTNV



1.4M_MCH_2437.5MHz_Ant0_NTNV



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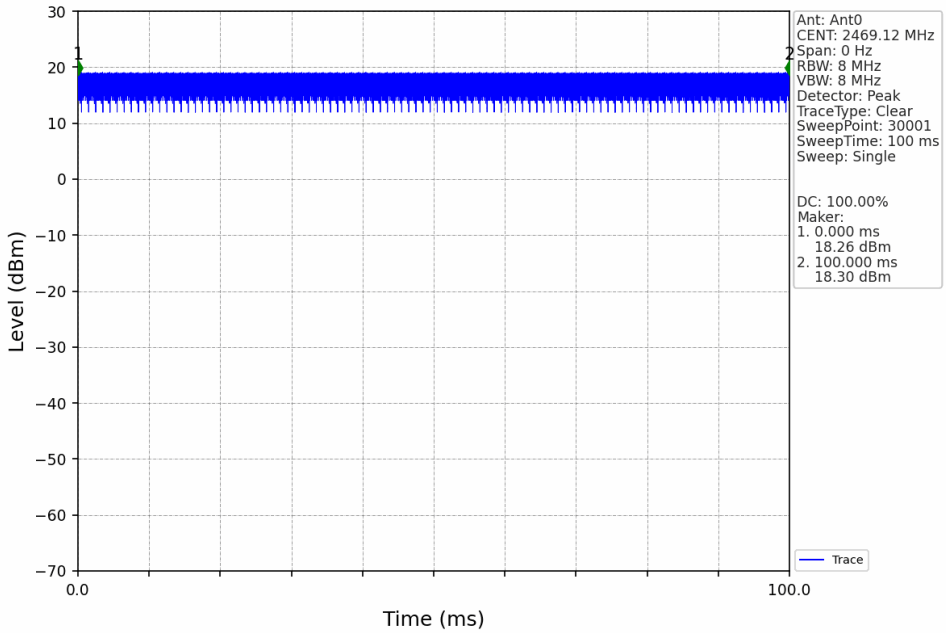
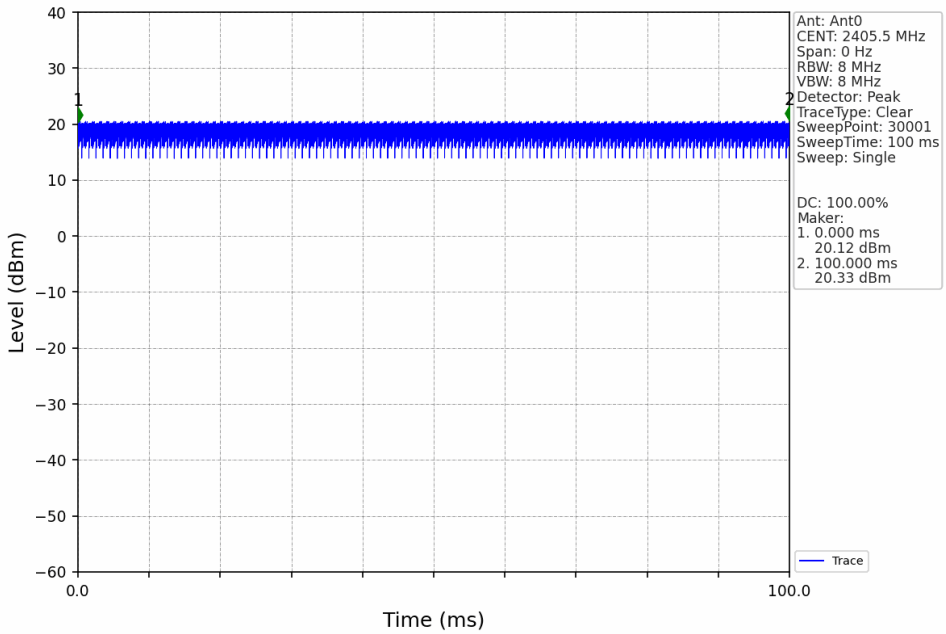
1.4M_HCH_2469.12MHz_Ant0_NTNV



3M_LCH_2405.5MHz_Ant0_NTNV



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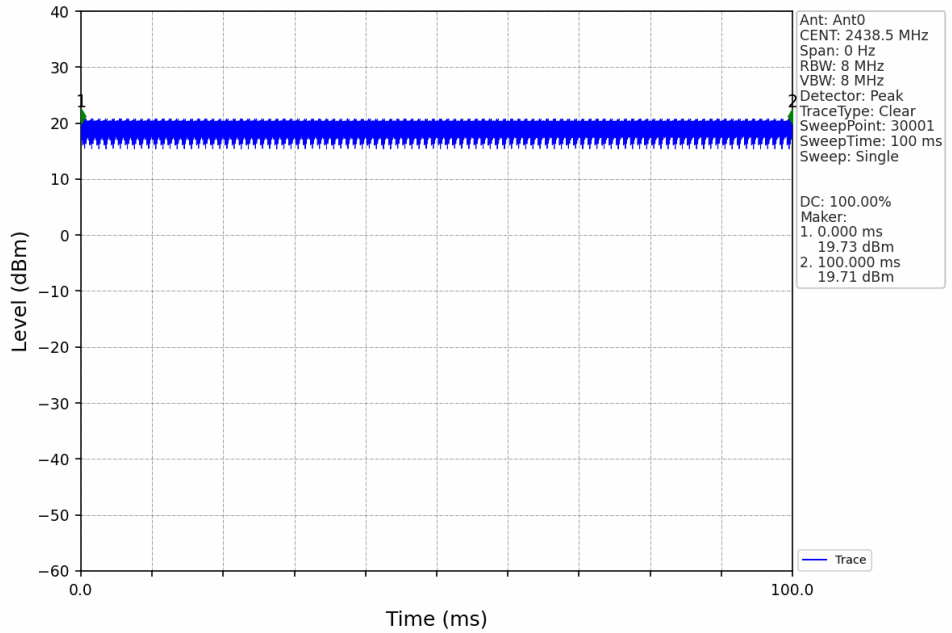
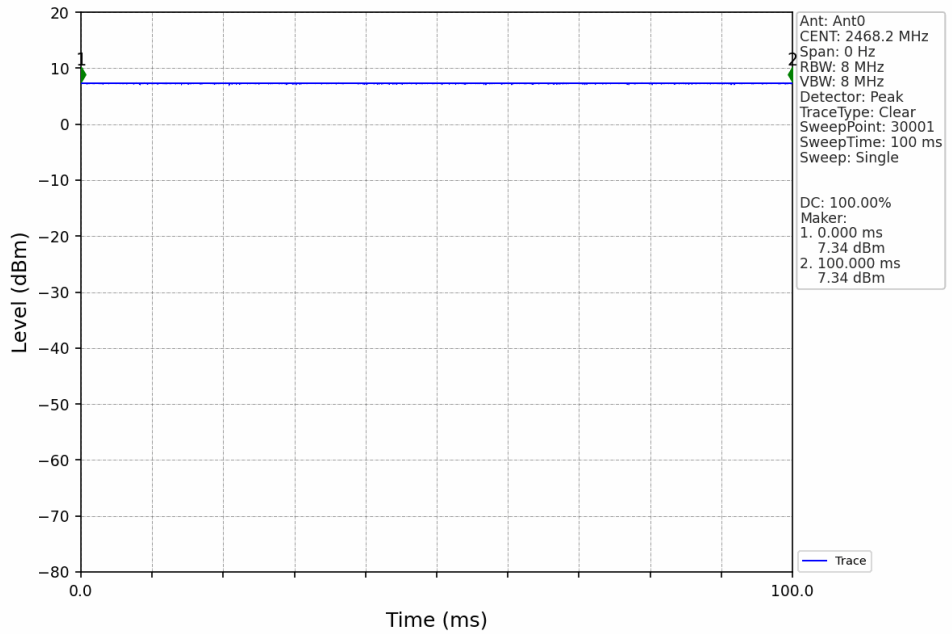
3M_MCH_2438.5MHz_Ant0_NTNV



3M_HCH_2468.2MHz_Ant0_NTNV



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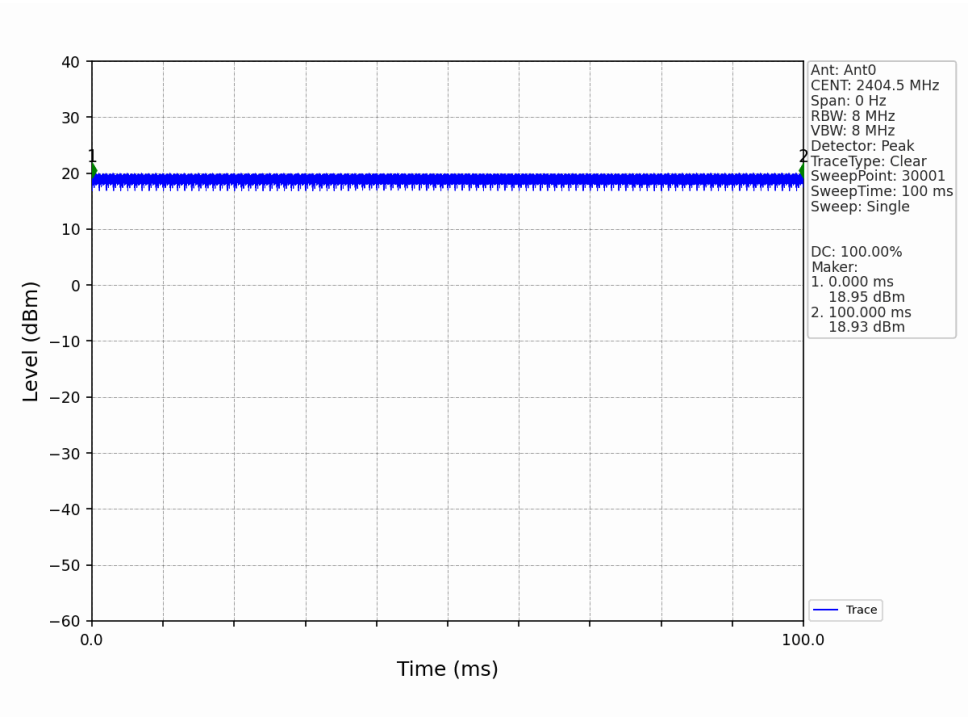
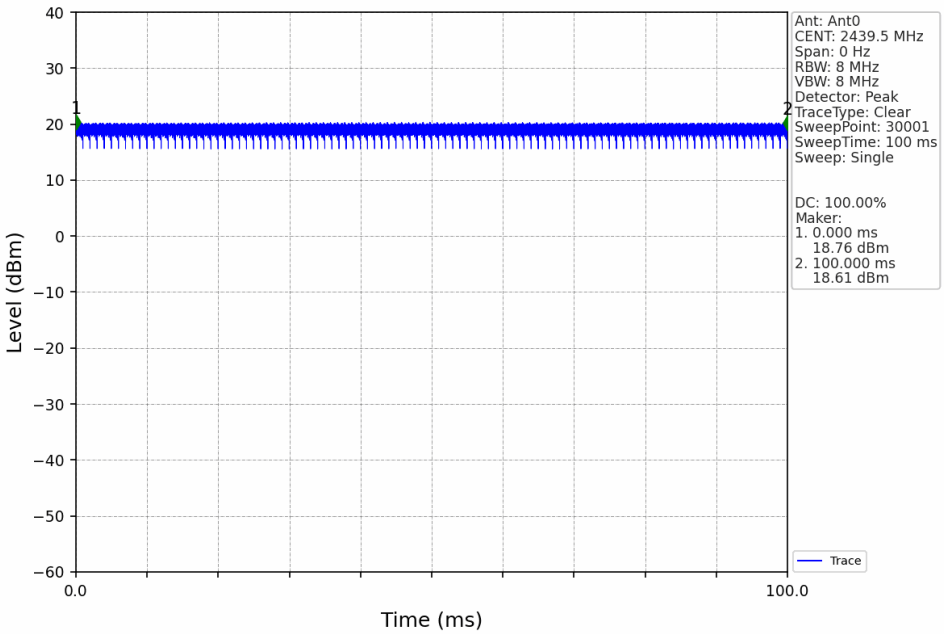
5M_LCH_2404.5MHz_Ant0_NTNV



5M_MCH_2439.5MHz_Ant0_NTNV



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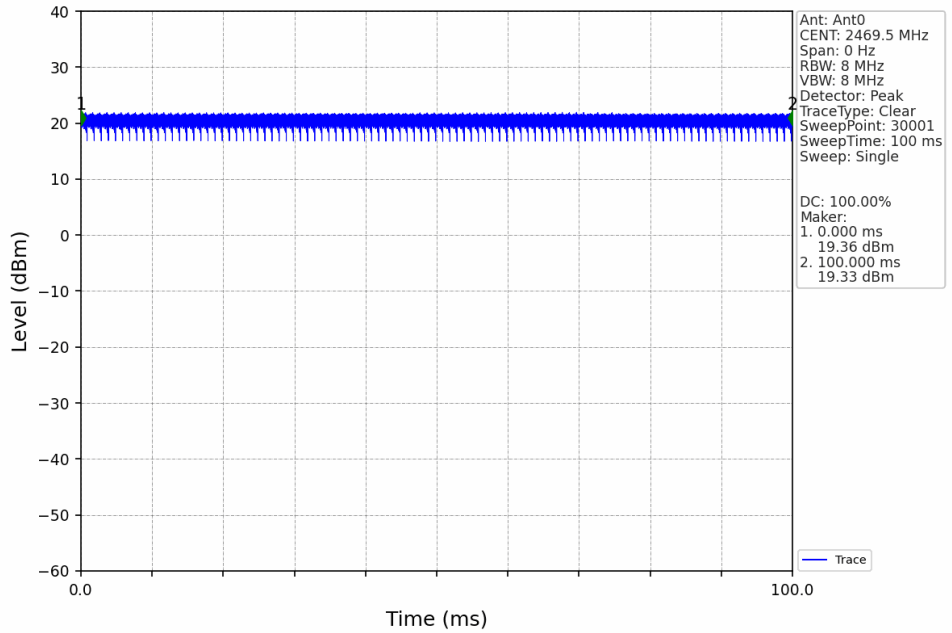
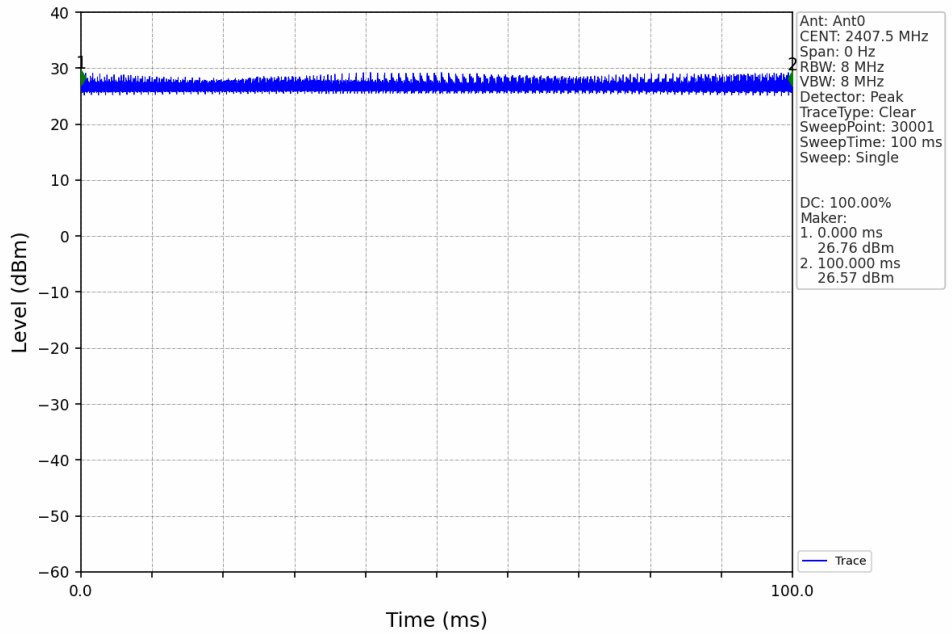
5M_HCH_2469.5MHz_Ant0_NTNV



10M_LCH_2407.5MHz_Ant0_NTNV



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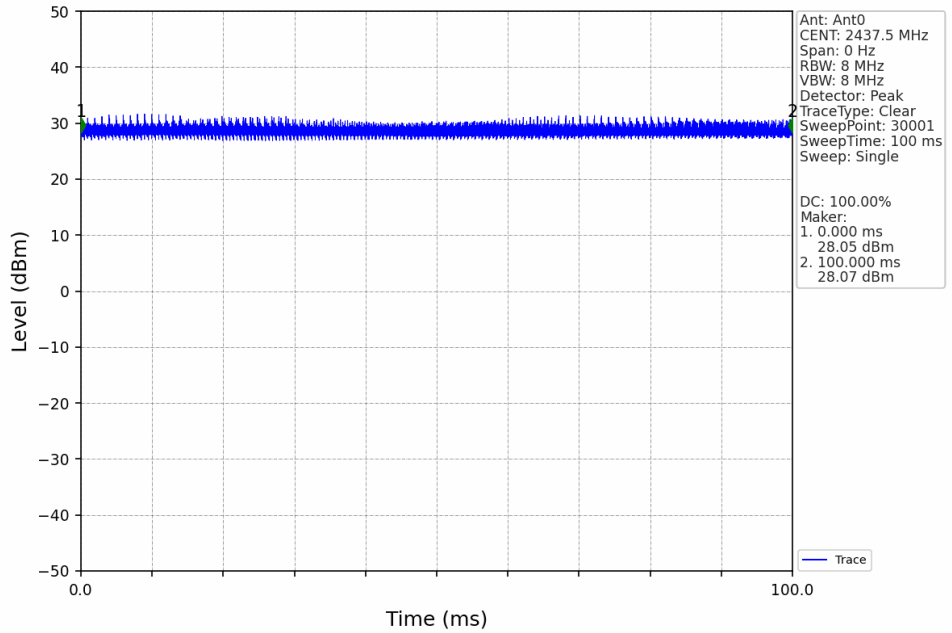
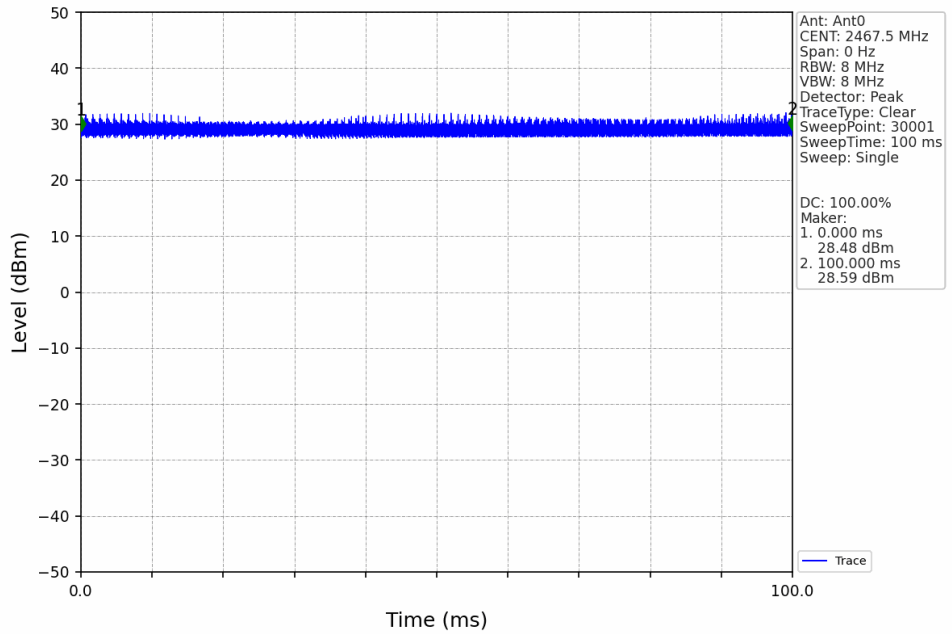
10M_MCH_2437.5MHz_Ant0_NTNV



10M_HCH_2467.5MHz_Ant0_NTNV



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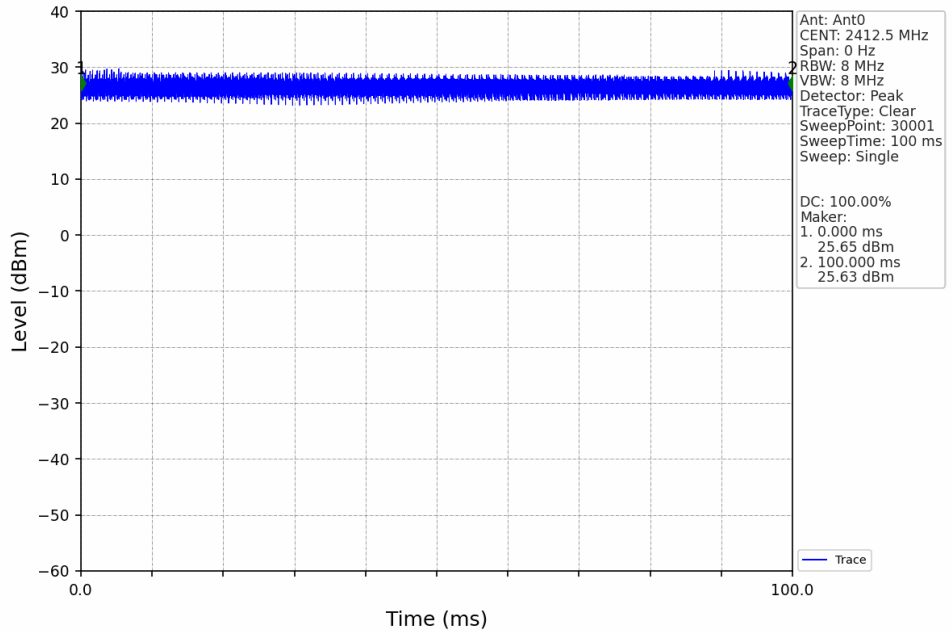
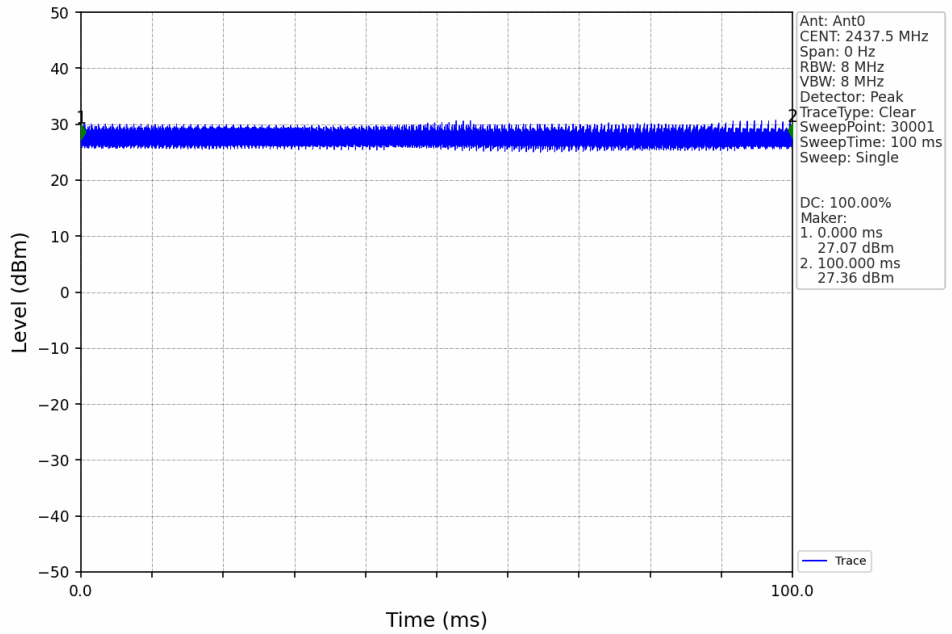
20M_LCH_2412.5MHz_Ant0_NTNV



20M_MCH_2437.5MHz_Ant0_NTNV



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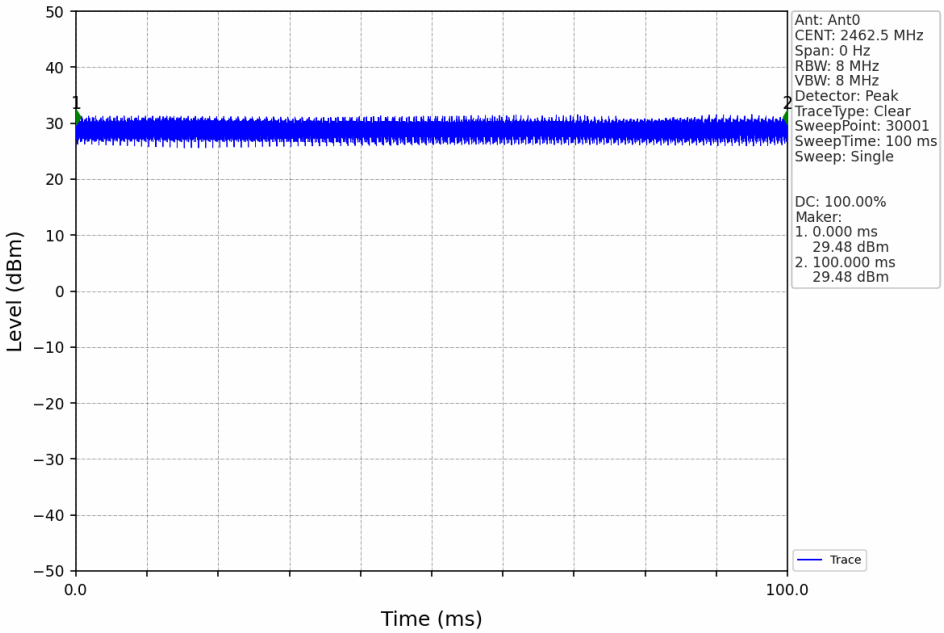
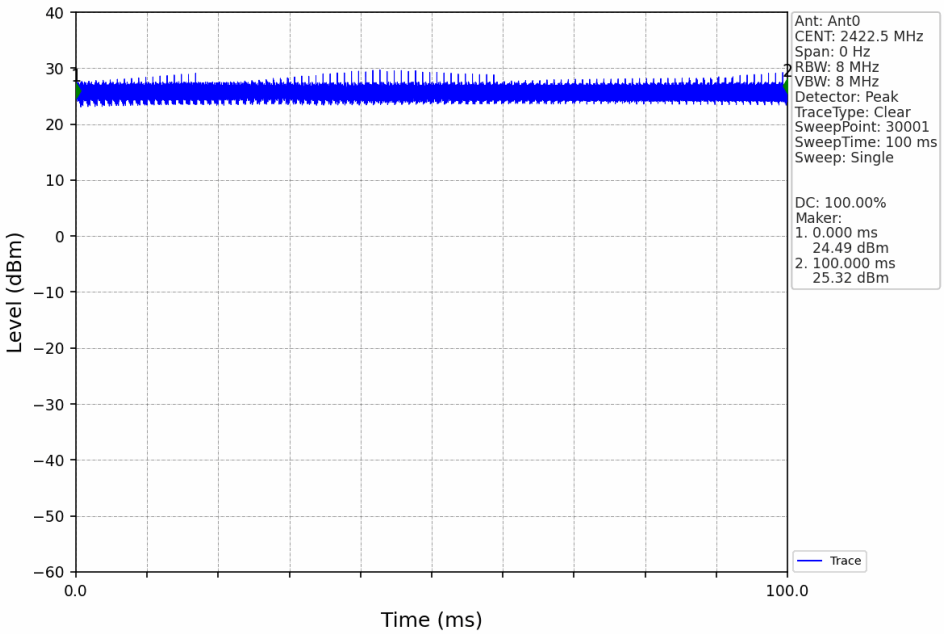
20M_HCH_2462.5MHz_Ant0_NTNV



40M_LCH_2422.5MHz_Ant0_NTNV



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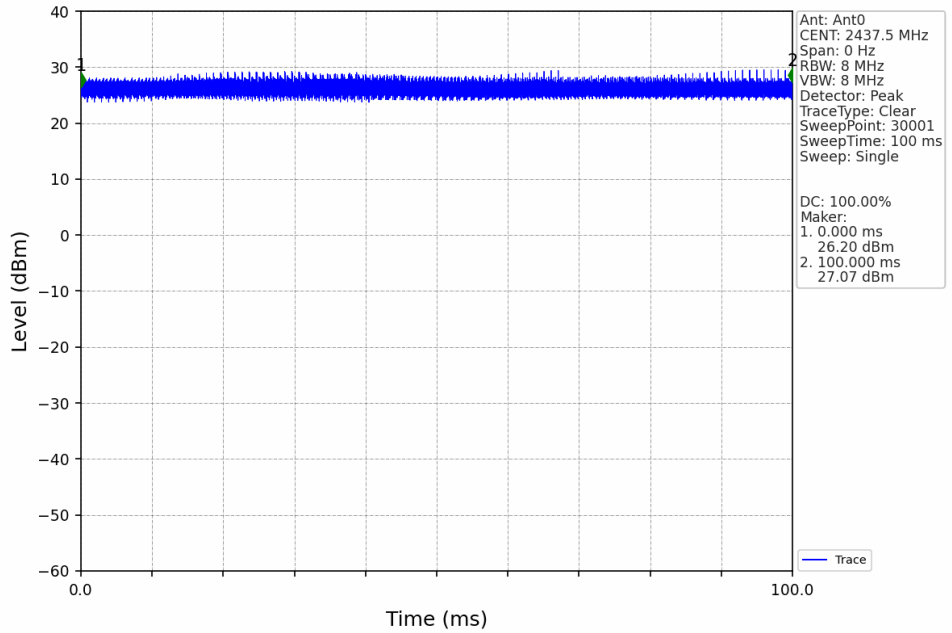
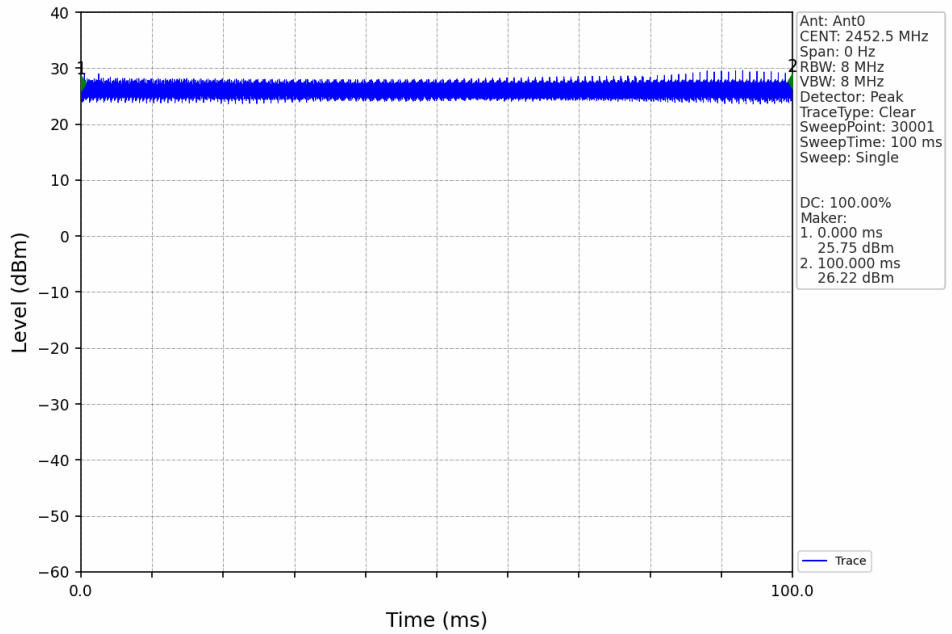
40M_MCH_2437.5MHz_Ant0_NTNV



40M_HCH_2452.5MHz_Ant0_NTNV



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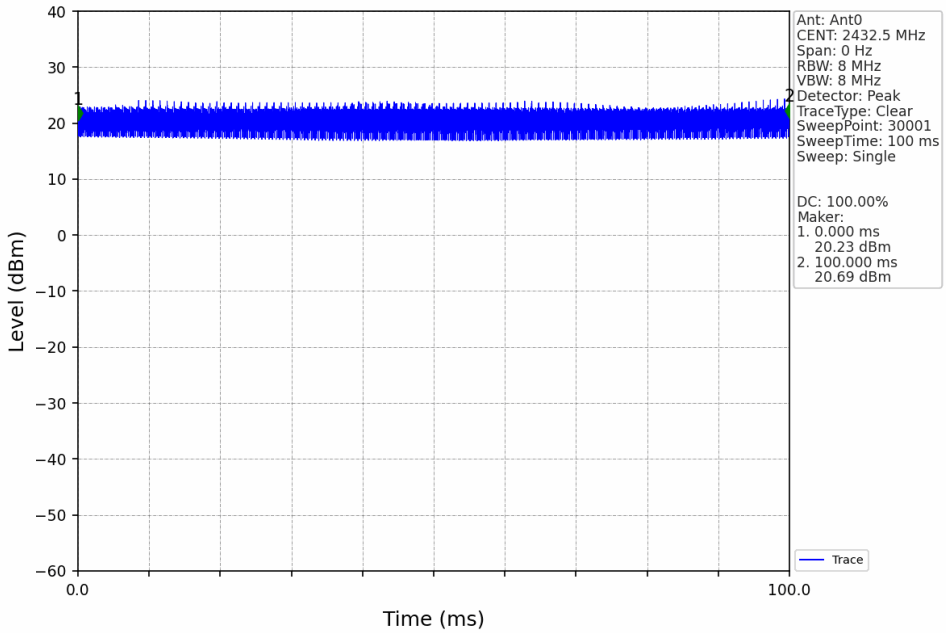
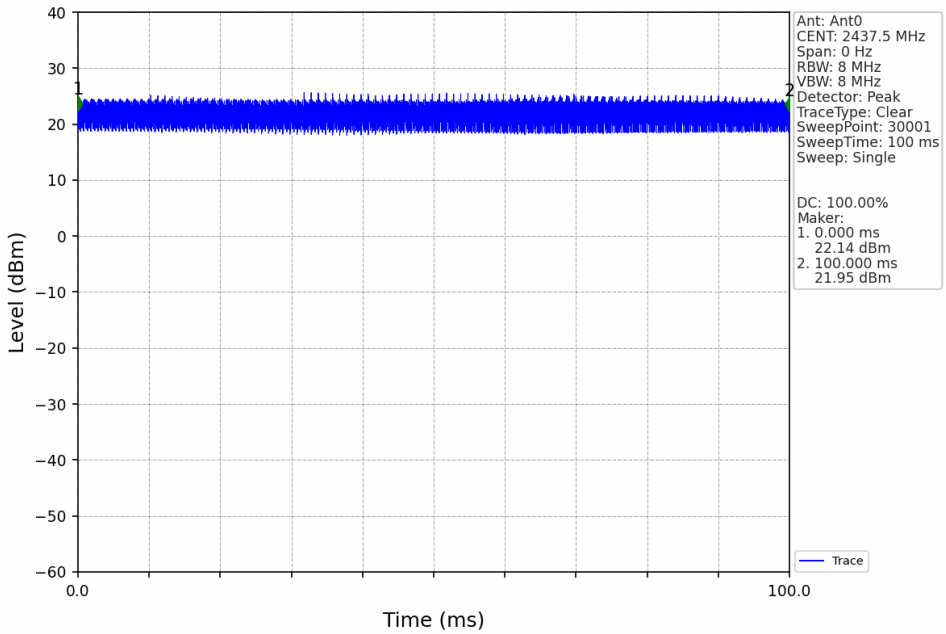
60M_LCH_2432.5MHz_Ant0_NTNV



60M_MCH_2437.5MHz_Ant0_NTNV



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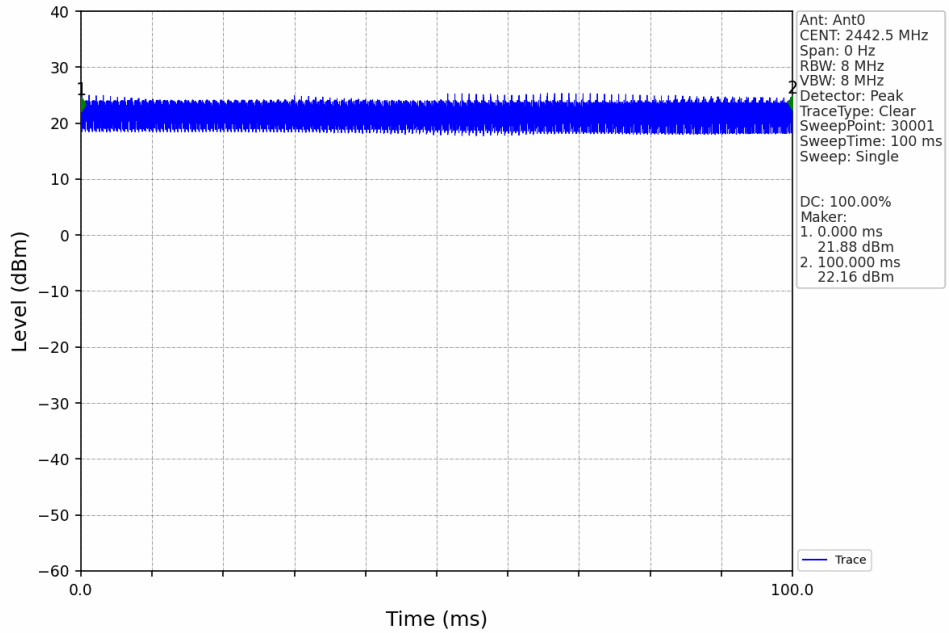
60M_HCH_2442.5MHz_Ant0_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	2403.5	0	1.420	/	Pass
		2437.5	0	1.405	/	Pass
		2469.12	0	1.415	/	Pass
3M	MIMO	2405.5	0	2.323	/	Pass
		2438.5	0	2.315	/	Pass
		2468.2	0	2.495	/	Pass
5M	MIMO	2404.5	0	4.522	/	Pass
		2439.5	0	4.521	/	Pass
		2469.5	0	4.524	/	Pass
10M	MIMO	2407.5	0	9.120	/	Pass
		2437.5	0	9.100	/	Pass
		2467.5	0	9.055	/	Pass
20M	MIMO	2412.5	0	17.942	/	Pass
		2437.5	0	17.867	/	Pass
		2462.5	0	17.888	/	Pass
40M	MIMO	2422.5	0	31.821	/	Pass
		2437.5	0	30.985	/	Pass
		2452.5	0	32.406	/	Pass
60M	MIMO	2432.5	0	51.030	/	Pass
		2437.5	0	50.976	/	Pass
		2442.5	0	51.084	/	Pass

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2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	2403.5	0	1.101	>=0.5	Pass
		2437.5	0	1.103	>=0.5	Pass
		2469.12	0	1.102	>=0.5	Pass
3M	MIMO	2405.5	0	2.212	>=0.5	Pass
		2438.5	0	2.212	>=0.5	Pass
		2468.2	0	2.302	>=0.5	Pass
5M	MIMO	2404.5	0	4.372	>=0.5	Pass
		2439.5	0	4.394	>=0.5	Pass
		2469.5	0	4.400	>=0.5	Pass
10M	MIMO	2407.5	0	9.040	>=0.5	Pass
		2437.5	0	9.039	>=0.5	Pass
		2467.5	0	9.013	>=0.5	Pass
20M	MIMO	2412.5	0	17.876	>=0.5	Pass
		2437.5	0	17.656	>=0.5	Pass
		2462.5	0	17.595	>=0.5	Pass
40M	MIMO	2422.5	0	22.376	>=0.5	Pass
		2437.5	0	20.441	>=0.5	Pass
		2452.5	0	23.380	>=0.5	Pass
60M	MIMO	2432.5	0	38.742	>=0.5	Pass
		2437.5	0	39.028	>=0.5	Pass
		2442.5	0	39.929	>=0.5	Pass

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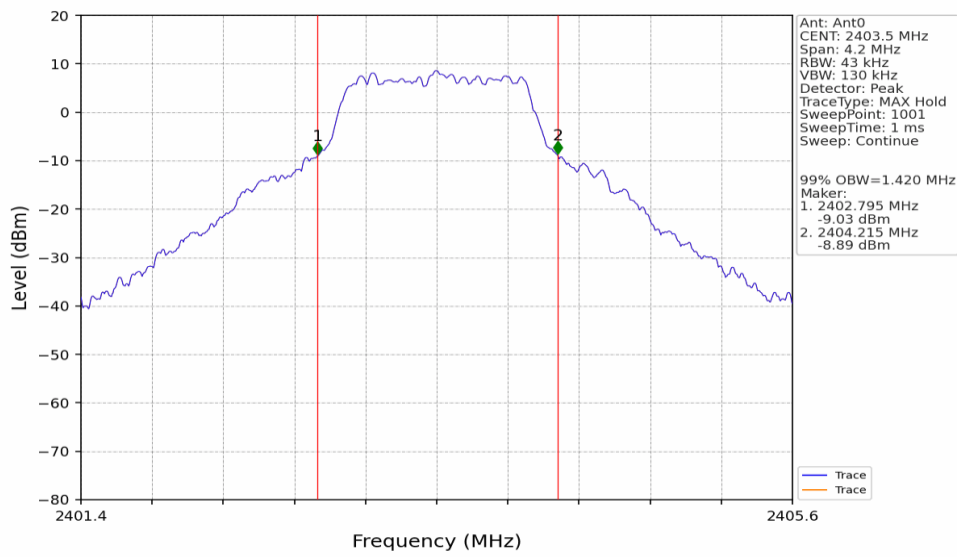
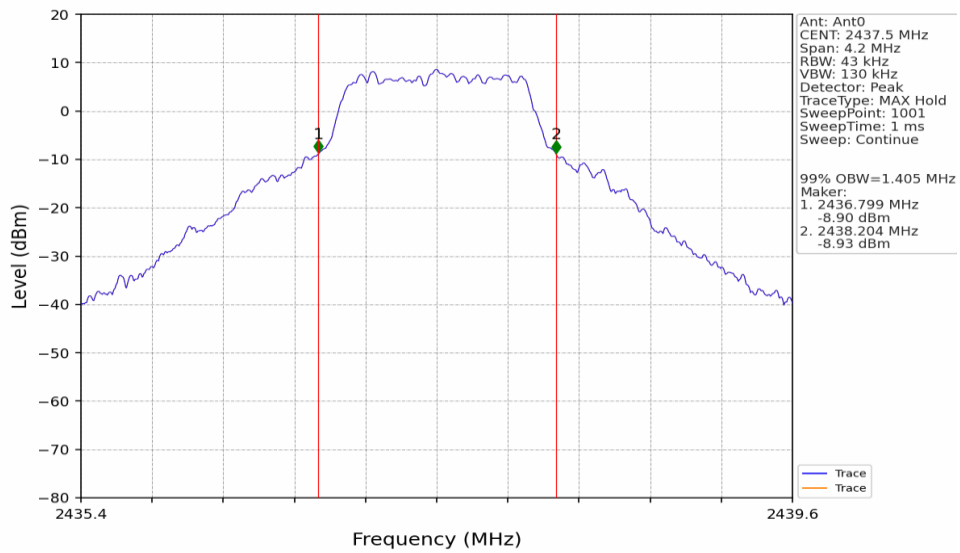
2.2 Test Graph

2.2.1 OBW

1.4M_LCH_2403.5MHz_Ant0_NTNV



1.4M_MCH_2437.5MHz_Ant0_NTNV



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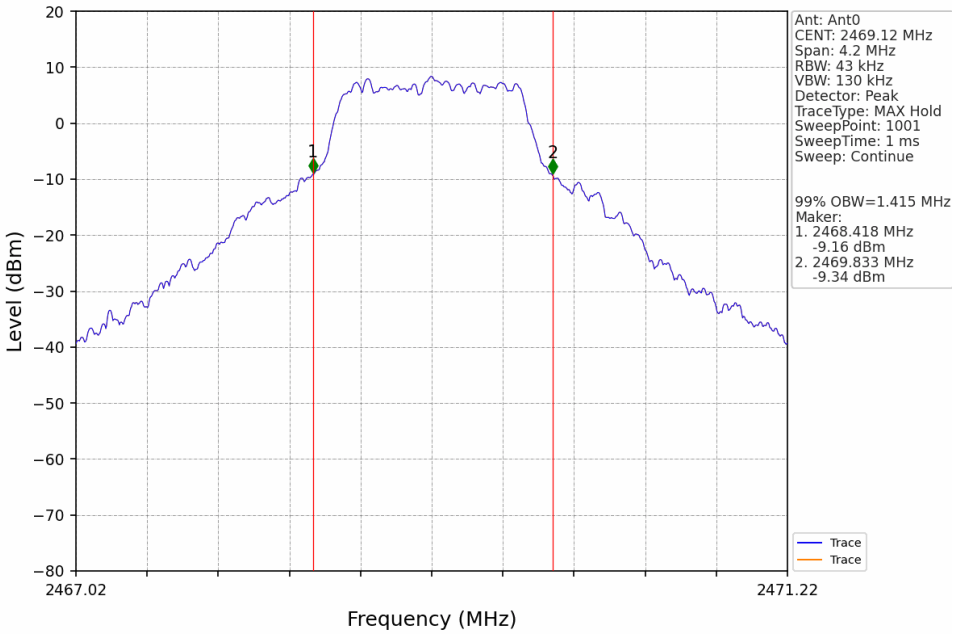
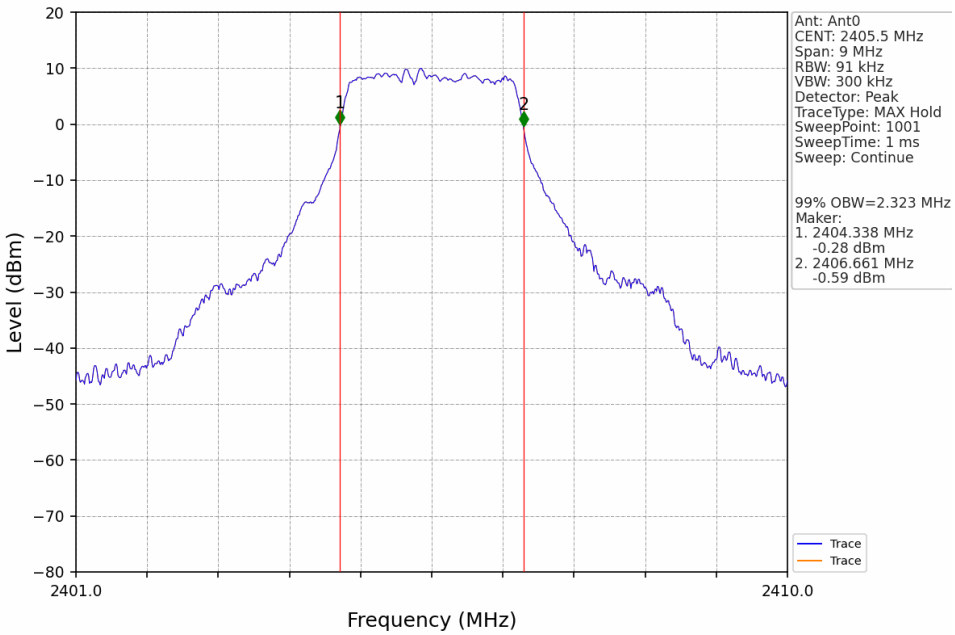
1.4M_HCH_2469.12MHz_Ant0_NTNV



3M_LCH_2405.5MHz_Ant0_NTNV



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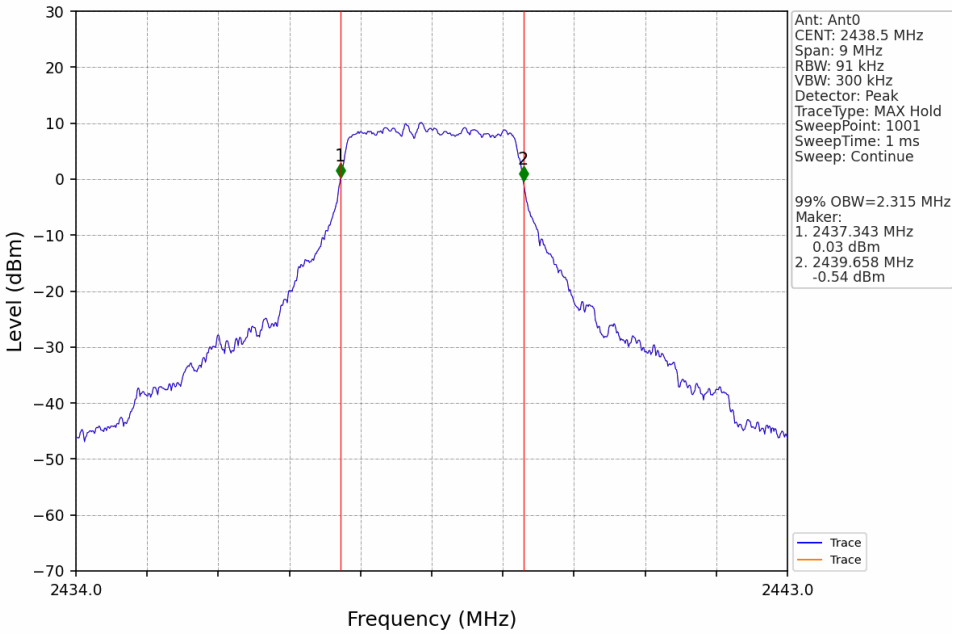
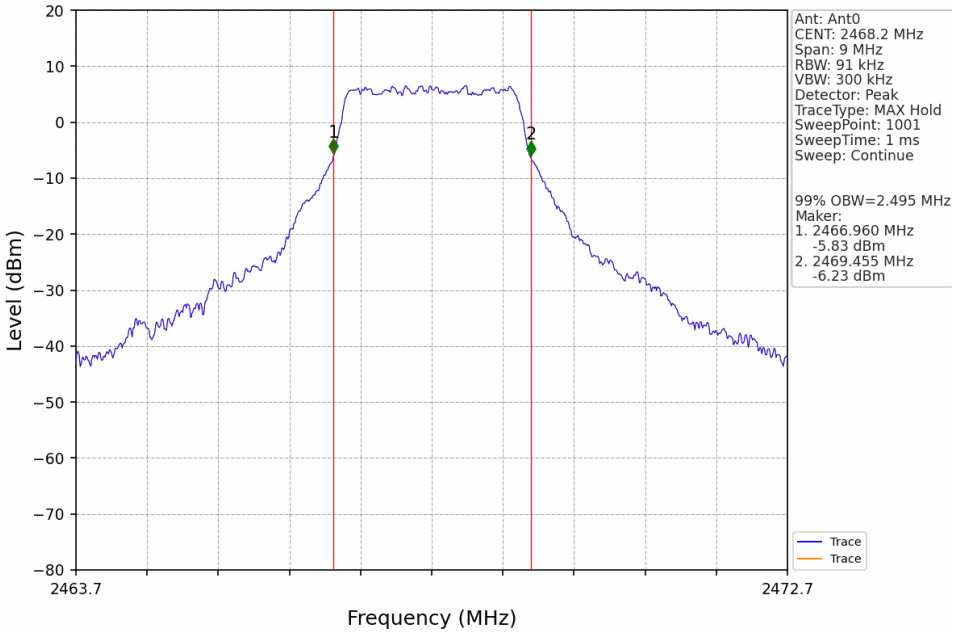
3M_MCH_2438.5MHz_Ant0_NTNV



3M_HCH_2468.2MHz_Ant0_NTNV



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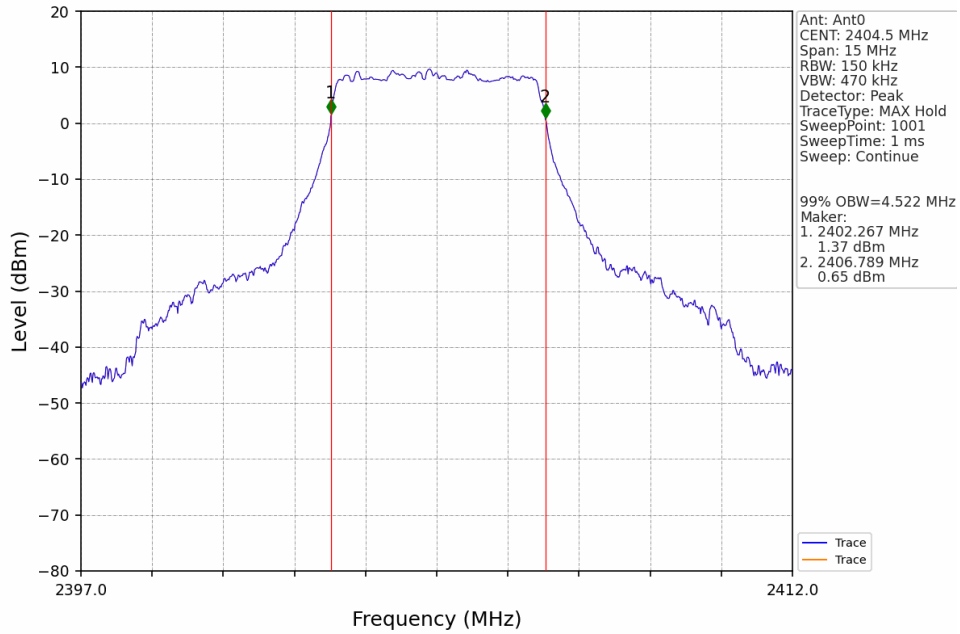
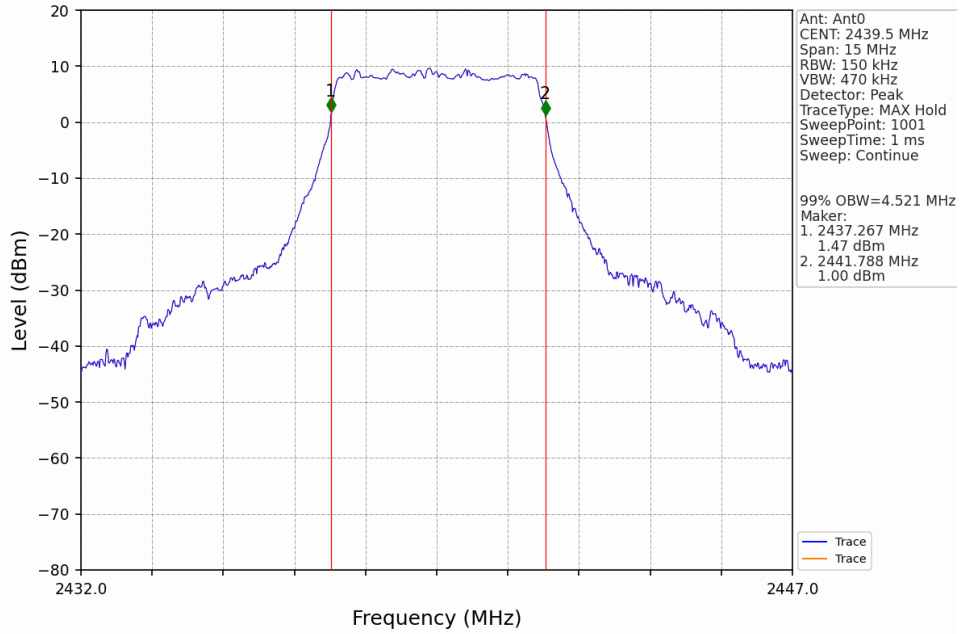
5M_LCH_2404.5MHz_Ant0_NTNV



5M_MCH_2439.5MHz_Ant0_NTNV



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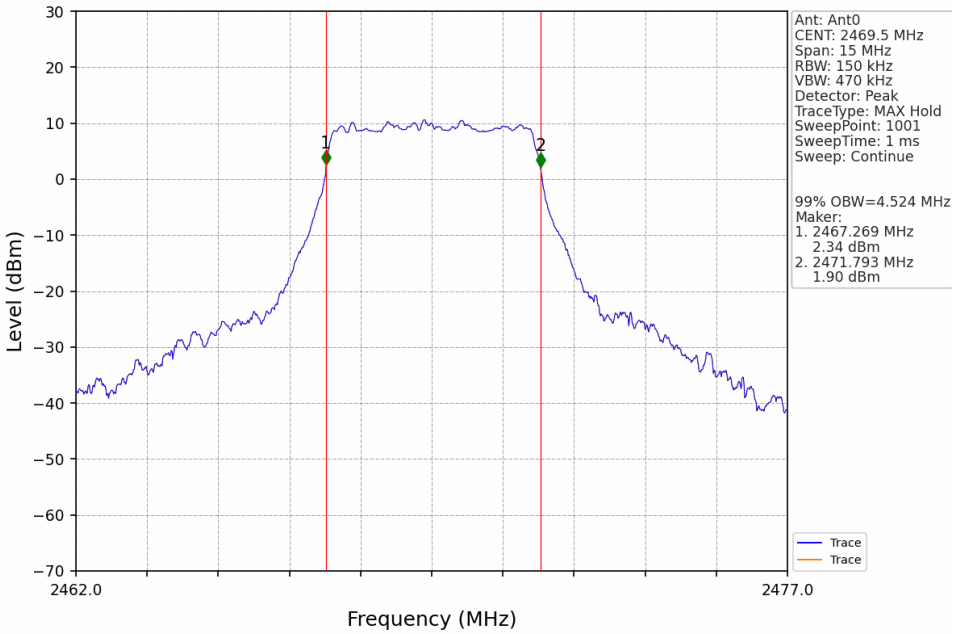
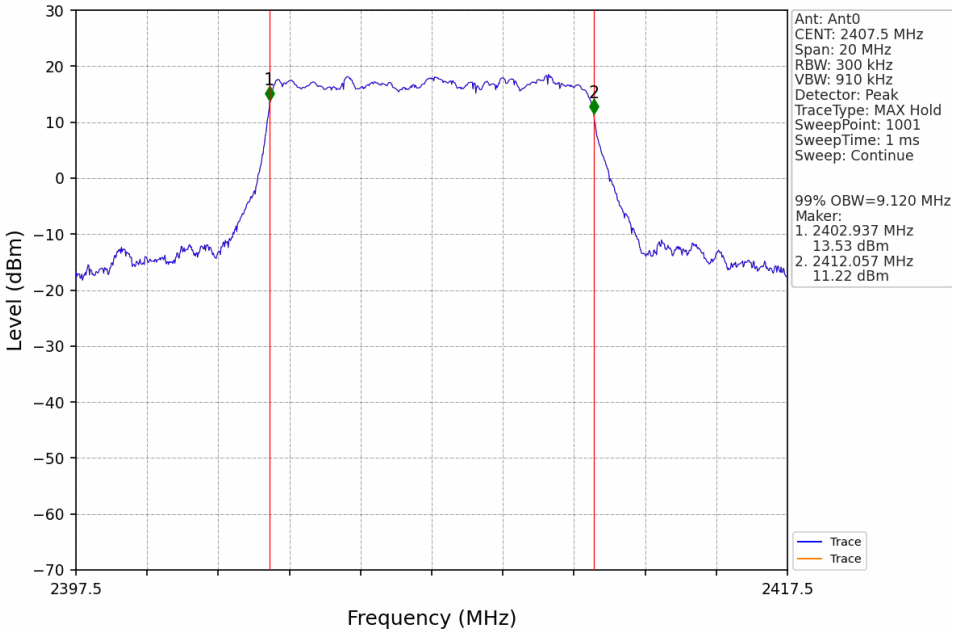
5M_HCH_2469.5MHz_Ant0_NTNV



10M_LCH_2407.5MHz_Ant0_NTNV



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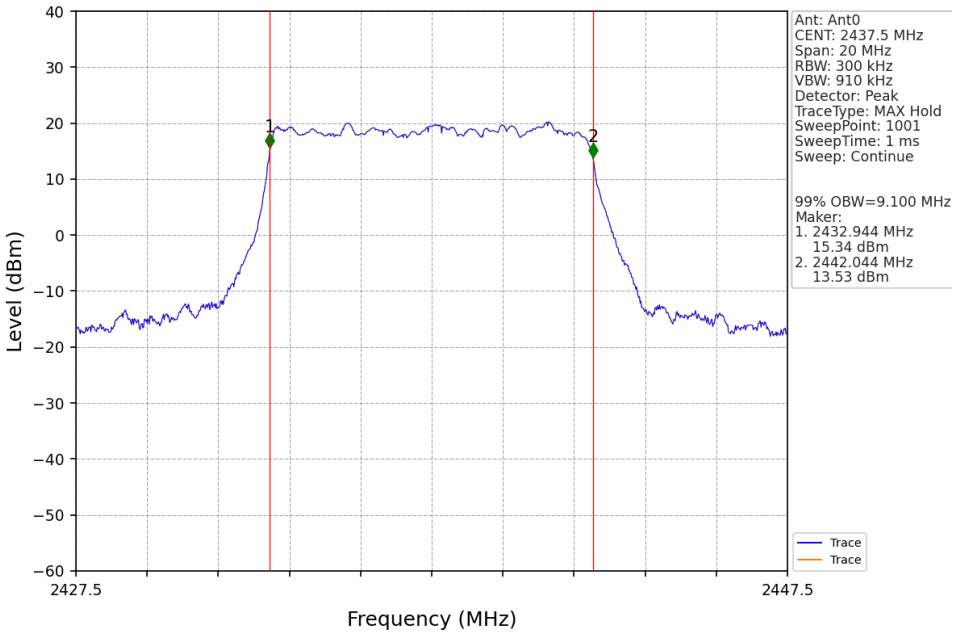
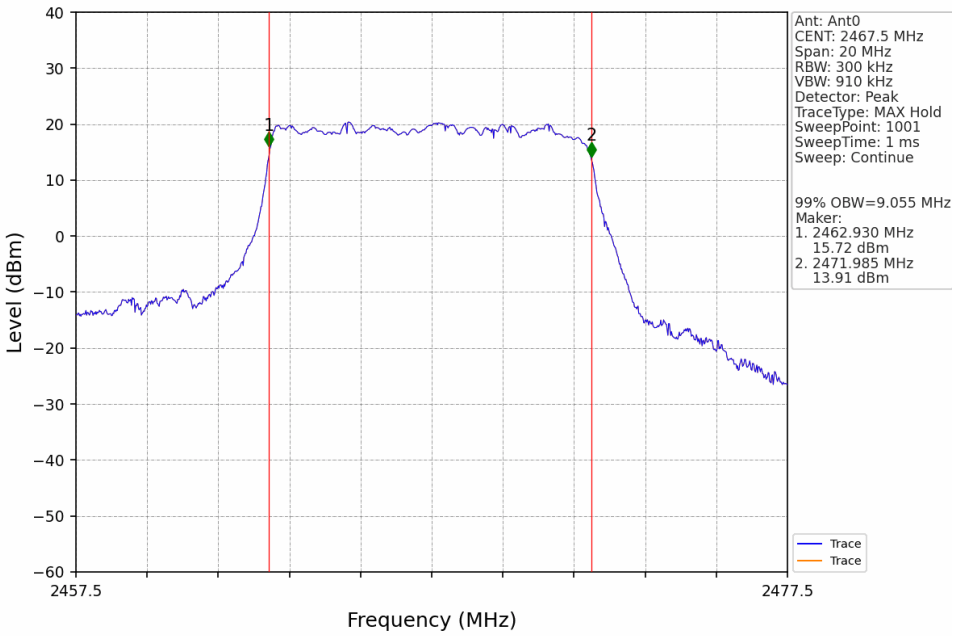
10M_MCH_2437.5MHz_Ant0_NTNV



10M_HCH_2467.5MHz_Ant0_NTNV



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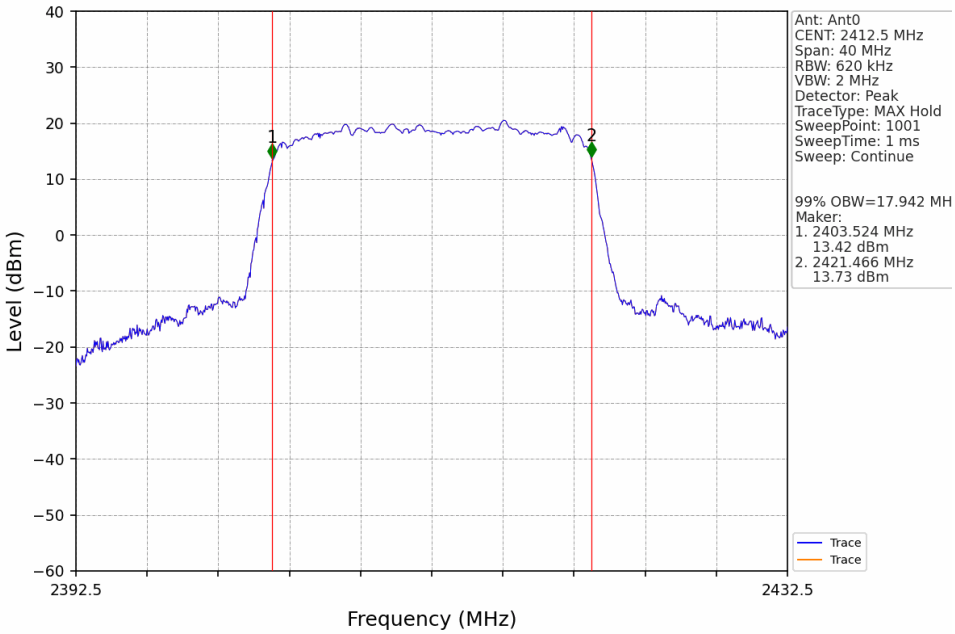
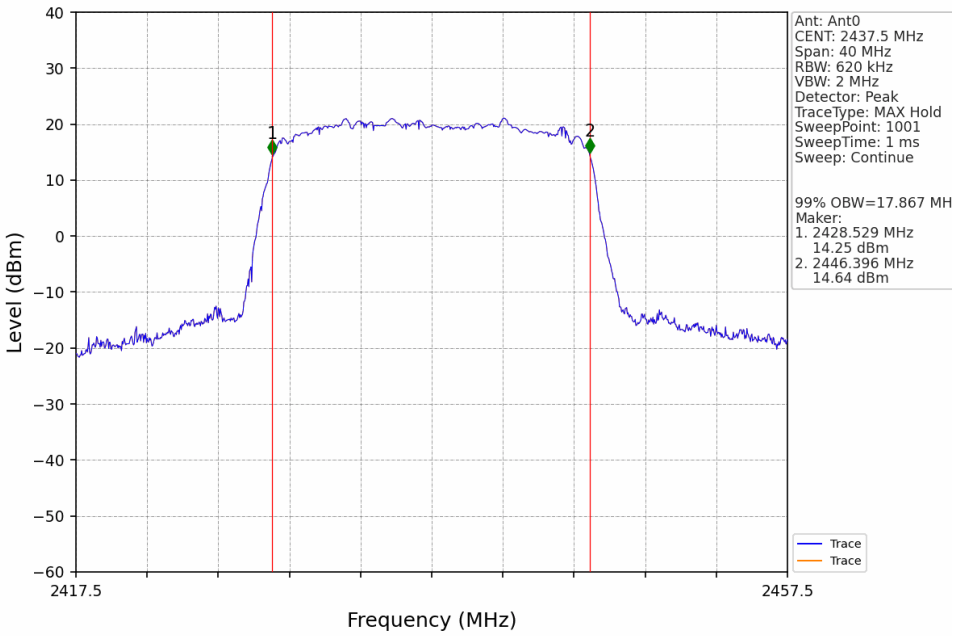
20M_LCH_2412.5MHz_Ant0_NTNV



20M_MCH_2437.5MHz_Ant0_NTNV



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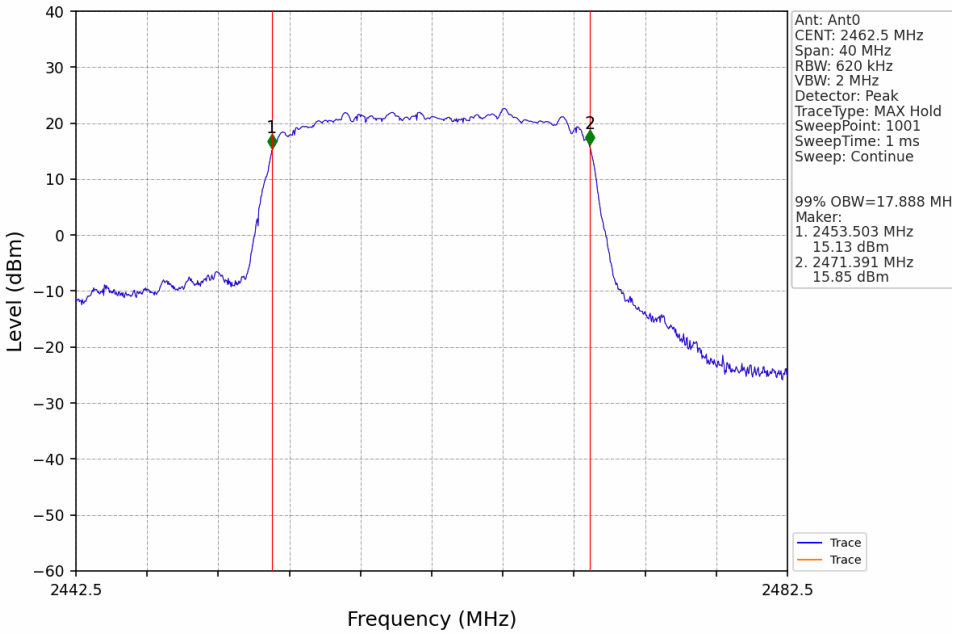
20M_HCH_2462.5MHz_Ant0_NTNV



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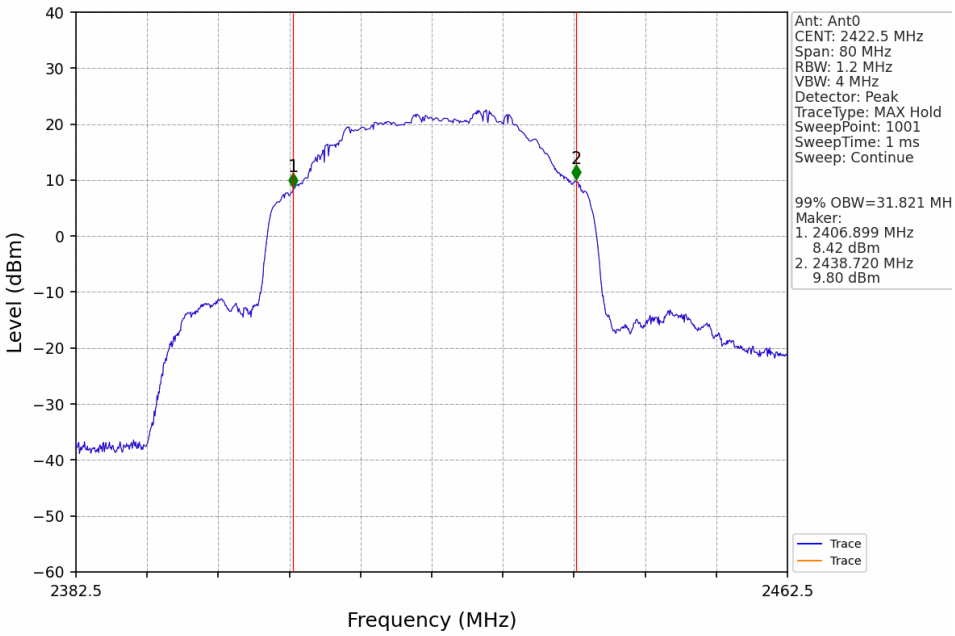

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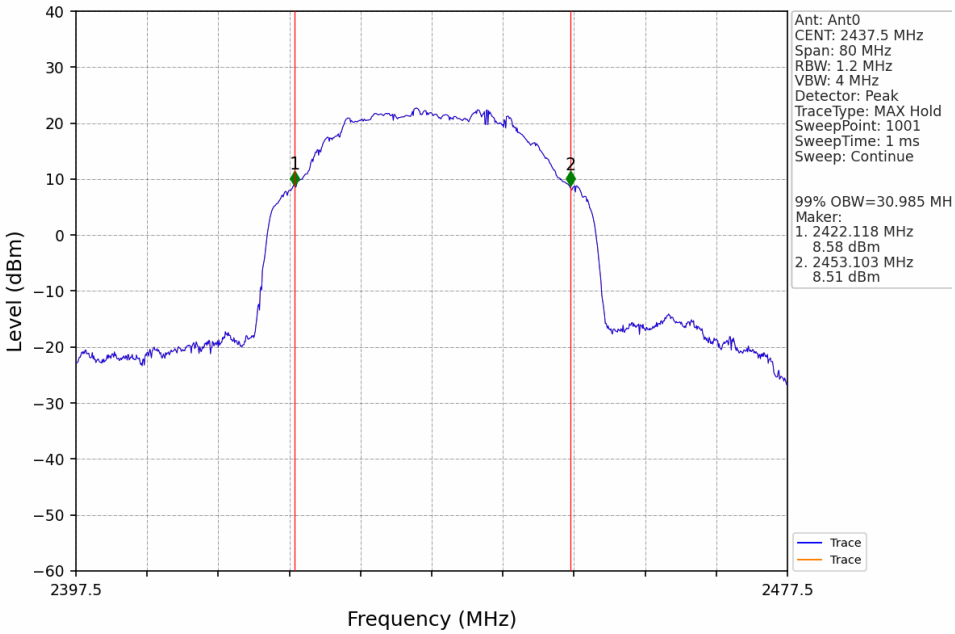

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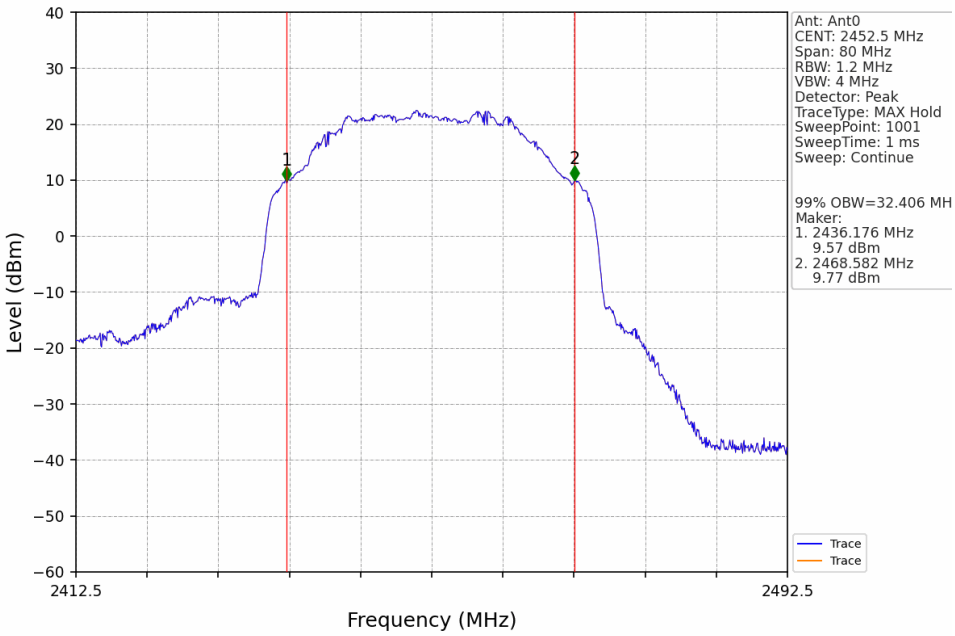

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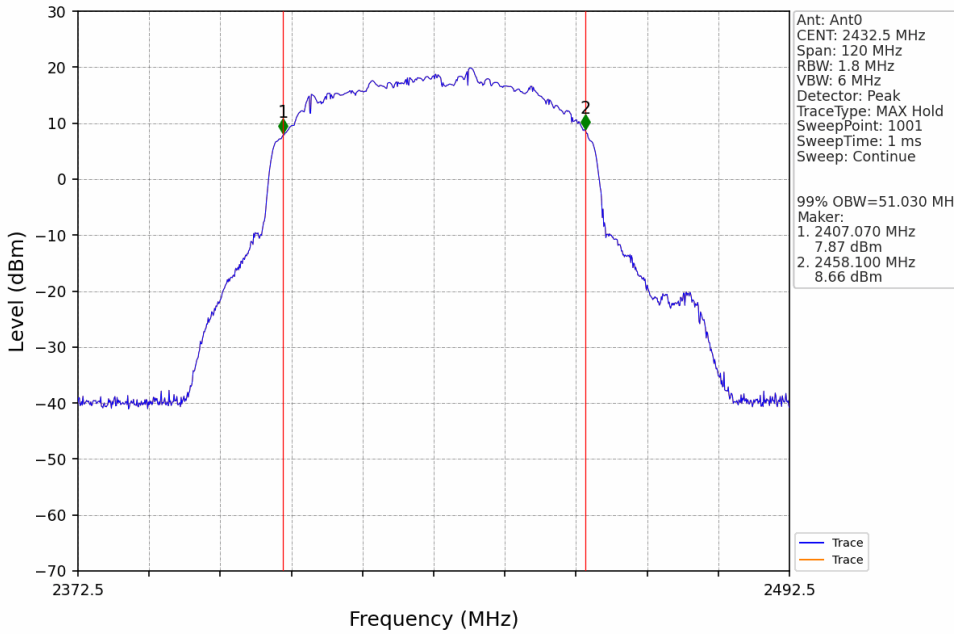
60M_LCH_2432.5MHz_Ant0_NTNV



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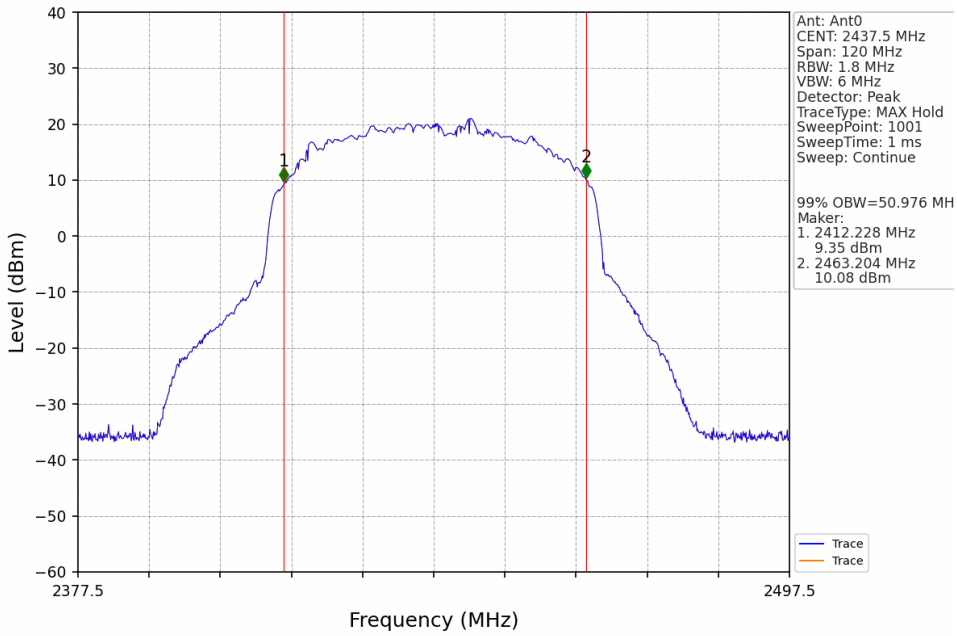

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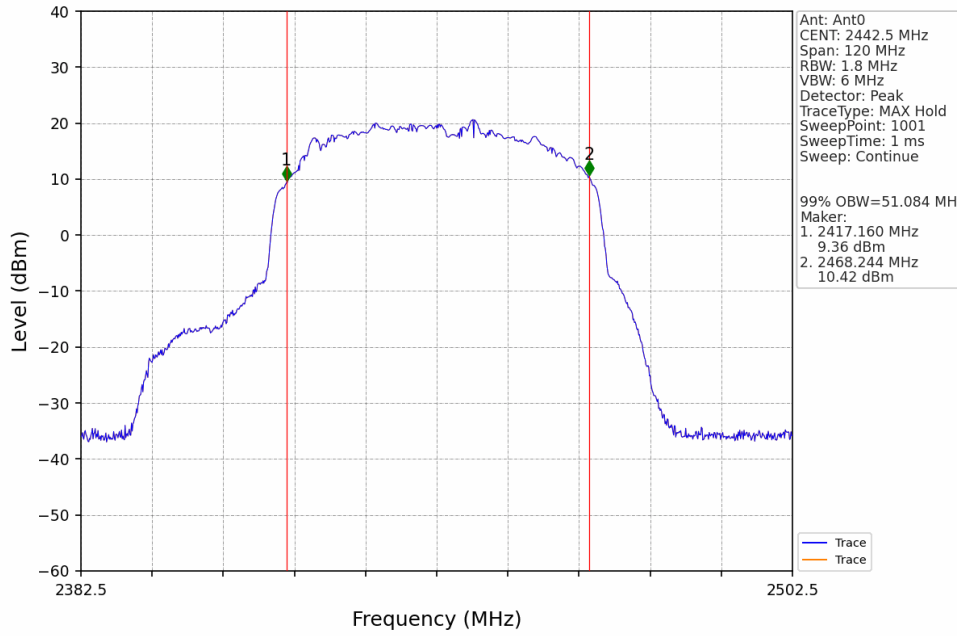
60M_HCH_2442.5MHz_Ant0_NTNV



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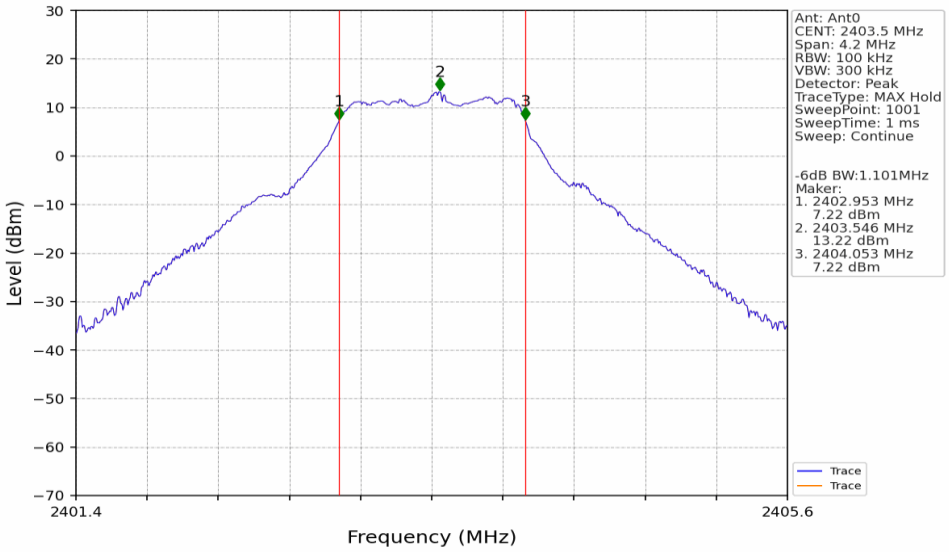
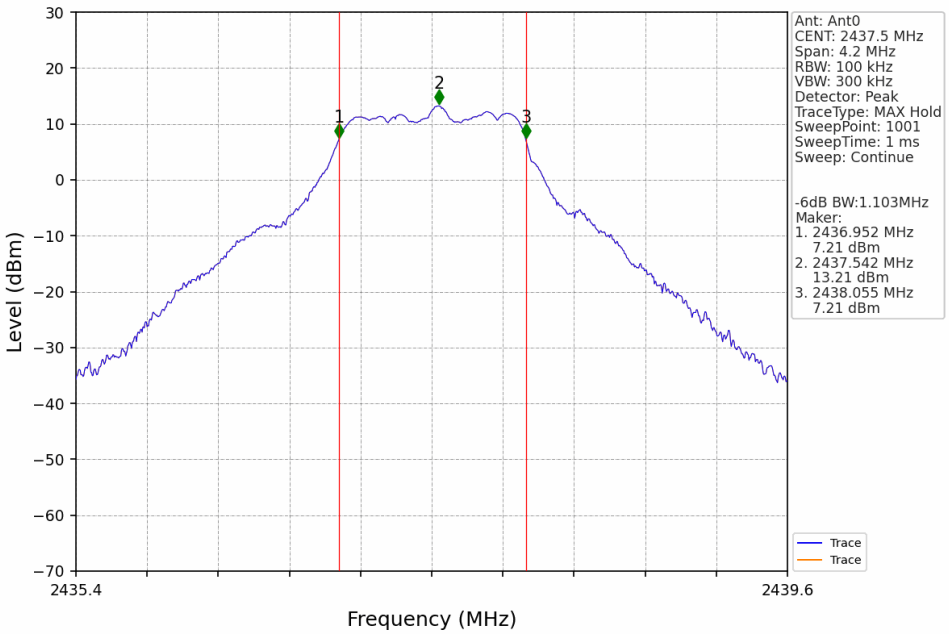
2.2.2 6dB BW

1.4M_LCH_2403.5MHz_Ant0_NTNV



1.4M_MCH_2437.5MHz_Ant0_NTNV



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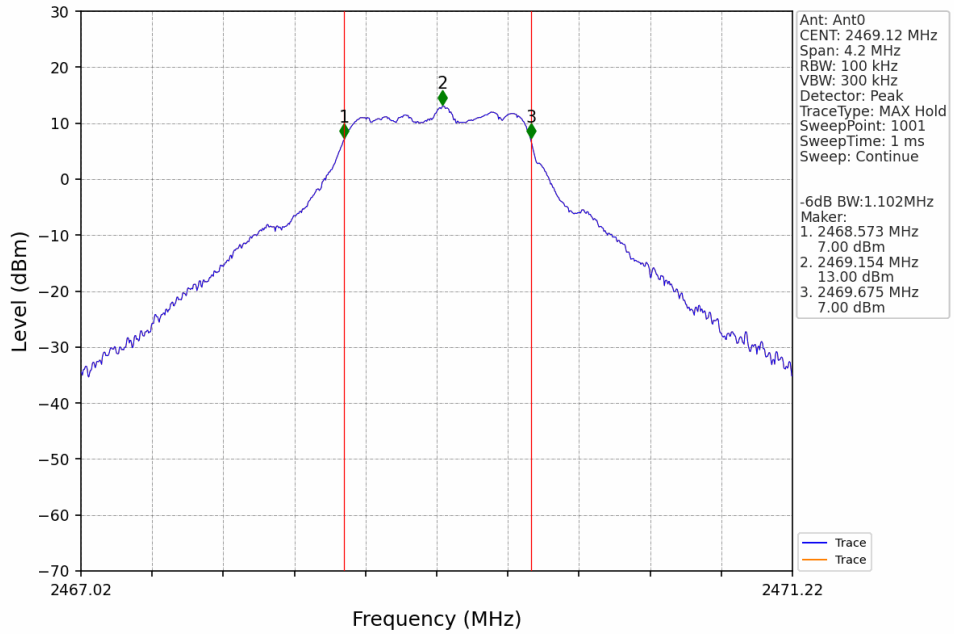
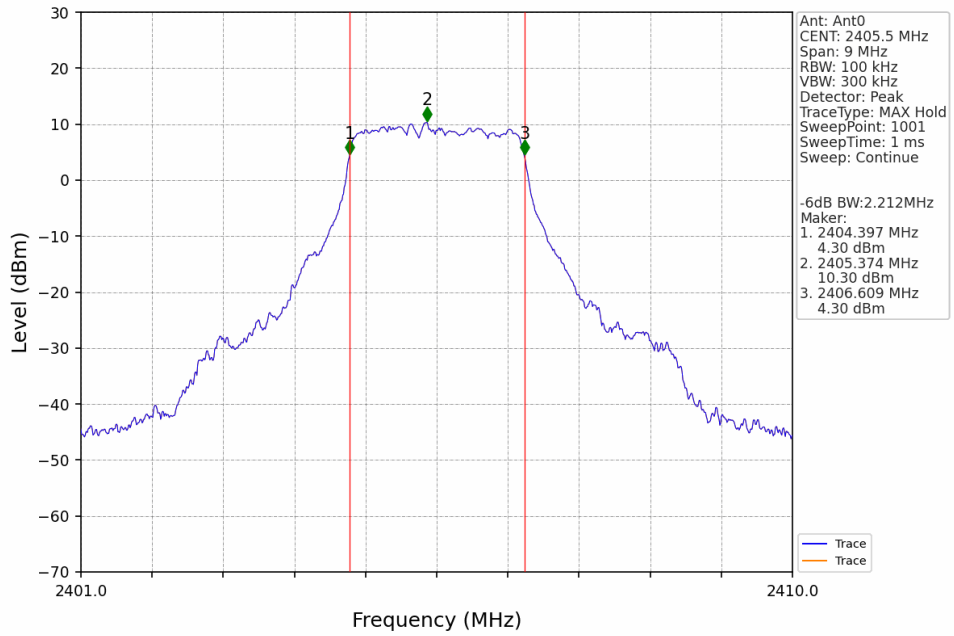
1.4M_HCH_2469.12MHz_Ant0_NTNV



3M_LCH_2405.5MHz_Ant0_NTNV



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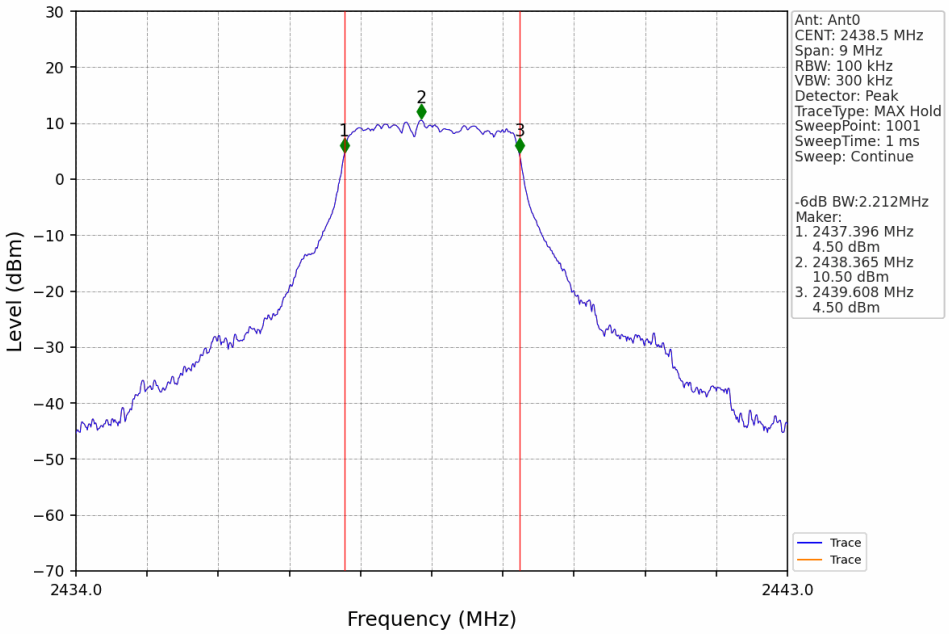
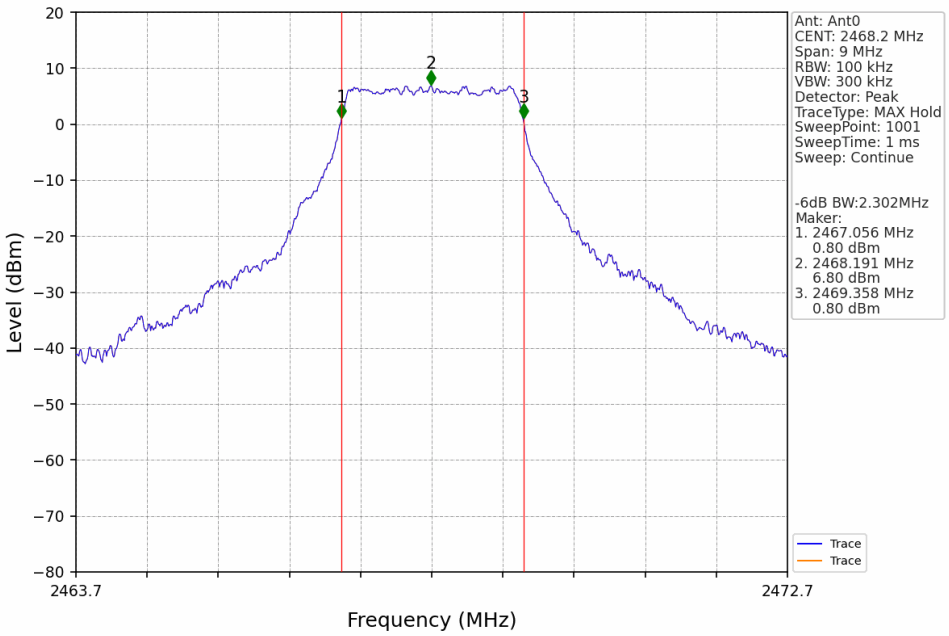
3M_MCH_2438.5MHz_Ant0_NTNV



3M_HCH_2468.2MHz_Ant0_NTNV



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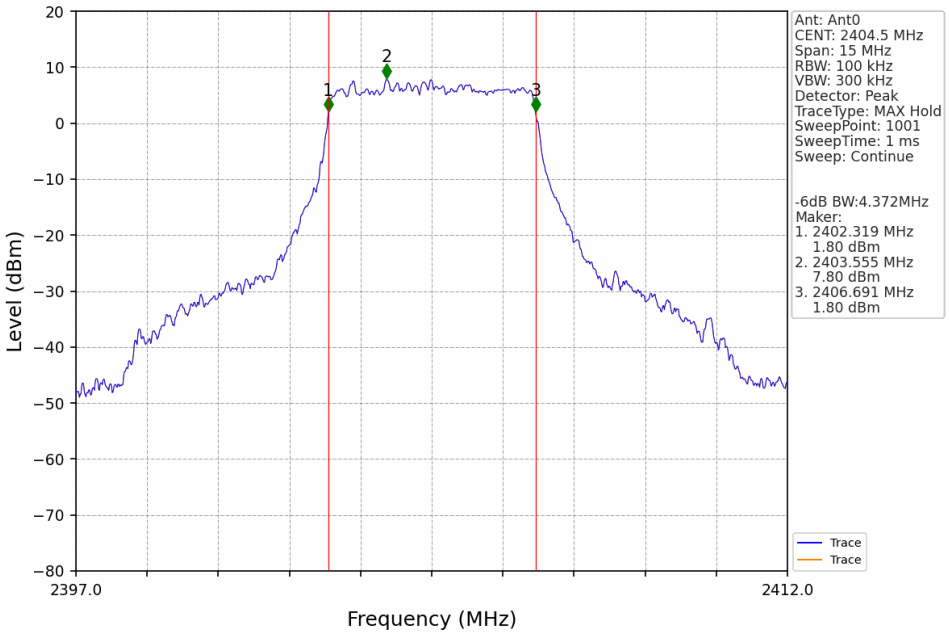
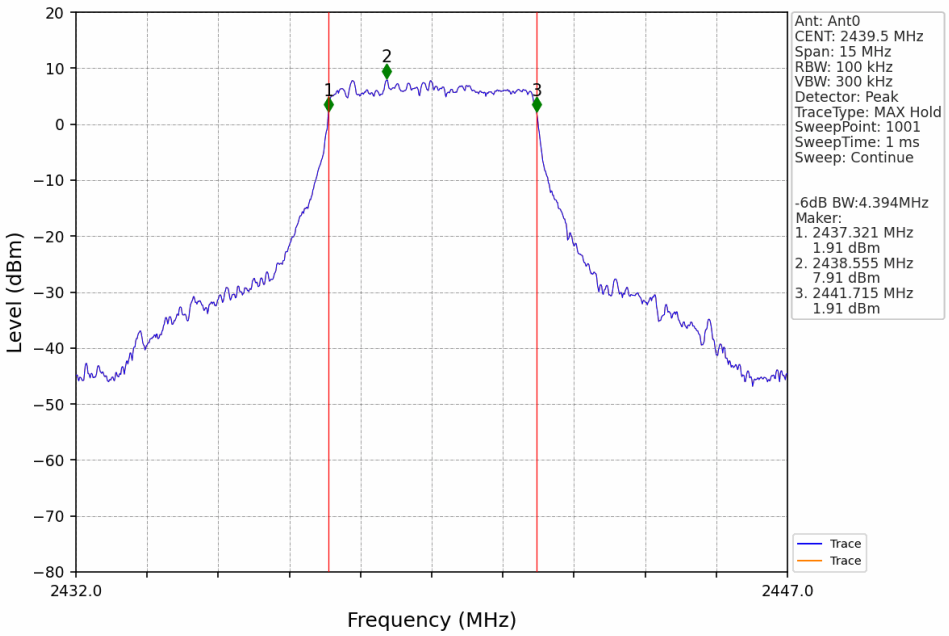
5M_LCH_2404.5MHz_Ant0_NTNV



5M_MCH_2439.5MHz_Ant0_NTNV



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